

HS_ENHv520

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Test Suite Overview

Test Suite Structure			
Suite Name : HS_ENHv520 Standards Ref : PICS Ref : PIXIT Ref : Test Method(s) : Comments :			
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RRC/RRC_RAB_Establishment/	tc_8_2_1_27	RRC_FDD_HSDPA	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (two radio links, start of HS-DSCH reception)	1127
RRC/RRC_RAB_Establishment/	tc_8_2_1_28	RRC_FDD_HSDPA	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support)	1131
RRC/RRC_RAB_Establishment/	tc_8_2_1_29	RRC_FDD_HSDPA	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, uplink TFCS restriction and start of HS-DSCH reception)	1133
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RRC/RRC_RAB_Establishment/	tc_8_2_1_31	RRC_FDD_HSDPA	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (start of HS-DSCH reception)	1138
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RRC/RRC_RB_Reconfig/	tc_8_2_2_36	RRC_FDD_HSDPA	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Start and stop of HS-DSCH reception)	1142

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RRC/RRC_CellUpdate/	tc_8_3_1_34	RRC_FDD_HSDPA	Cell Update: Transition from CELL_DCH to CELL_FACH, stop of HS-DSCH reception	1164
RRC/RRC_CellUpdate/	tc_8_3_1_35	RRC_FDD_HSDPA	Cell Update: Transition from CELL_DCH to CELL_DCH, with active HS-DSCH reception	1168
RRC/RRC_PhyCh_Reconf/	tc_8_2_6_40	RRC_FDD_HSDPA	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Two radio links, change of HS-PDSCH configuration)	1171

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InterRAT/CellChangeOrderUTRAN_ToGSM/	tc_8_3_11_9	RRC_FDD_IR_GPRS_HSDPA	Inter-RAT cell change order from UTRAN to GPRS/CELL_DCH/Success (stop of HS-DSCH reception)	1180
CombinationOnDPCH/HSDPA/	tc_14_6_1	RB_Intr_Backgr_C373	Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	1186
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BasicM_r5/	ts_SS_DownloadSecurityKey_r5		1642
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Detailed Comments :			

II

Declarations Part

Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
CT_Field	BITSTRING[4]		<p>The C/T field within a MAC PDU.</p> <p>When a MAC PDU is transmitted, the TTCN constraint will determine if this field is present. The Direct Encoding encoder shall use the number of bits provided by the TTCN, even if the current SS logical channel to transport channel mapping indicates that the field should not be present.</p> <p>When a MAC PDU is received, the Direct Encoding decoder shall determine if the field is present based on the current SS logical channel to transport channel mapping, and shall always use 4 bits for this field.</p>
RLC_Padding	BITSTRING [0..32768]		<p>Padding for RLC UM or AM PDU. Ref 3G TS 25.322 clause 9.2.2.10</p> <p>Note that this type should ideally be an OCTETSTRING[1..4096], but to accomodate the failure cases where padding need not be Octet bound.</p>
TCTF	BITSTRING[2..8]		<p>The TCTF field may be either 2 or 8 bits for FDD, or 3 or 5 bits for TDD. Bitstrings of length 4, 6, or 7 are invalid for this type.</p> <p>When a MAC PDU is transmitted, the TTCN constraint will determine if this field is present, and how many bits are used. The Direct Encoding encoder shall use the number of bits provided by the TTCN, even if the current SS logical channel to transport channel mapping indicates that the TCTF length should be different.</p> <p>For example, the constraint may specify a 2 bit TCTF value for CCCH mapped to FACH, even though the correct value for this mapping is 8 bits. The encod</p>

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
UE_Id	BITSTRING[16..32]		<p>er shall use the given 2 bits for the TCTF field, followed directly by the next field in the PDU.</p> <p>When a MAC PDU is received, the Direct Encoding decoder shall determine if the field is present, and the appropriate number of bits to use for the TCTF based on the current SS logical channel to transport channel mapping.</p> <p>For example, for a MAC PDU received on a DCCH mapped to FACH in FDD, 2 bits will be used for the TCTF field.</p> <p>Reference 3G TS 25.321 tables 9.2.1.1 to 9.2.1.5</p> <p>The UE Id used within a MAC PDU. This field will be either 16 or 32 bits (if present), depending on the UE Id Type field in the same MAC PDU. Bit strings of length 17 to 31 are invalid for this field.</p> <p>When a MAC PDU is transmitted, the TTCN constraint will determine if this field is present, and how many bits are used. The Direct Encoding encoder shall use the number of bits provided by the TTCN, even if the UE Id type field and / or current SS logical channel to transport channel mapping indicates otherwise.</p> <p>When a MAC PDU is received, The Direct Encoding decoder shall determine the number of bits to be used for the UE Id field based on the current SS logical channel to transport channel mapping, and by inspecting the UE Id Type field within the same MAC PDU.</p>

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
UE_IdType	BITSTRING[2]		<p>The type of UE Id used within a MAC PDU.</p> <p>When a MAC PDU is transmitted, the TTCN constraint will determine if this field is present. The Direct Encoding encoder shall use the number of bits provided by the TTCN, even if the current SS logical channel to transport channel mapping indicates that the field should not be present.</p> <p>When a MAC PDU is received, the Direct Encoding decoder shall determine if the field is present based on the current SS logical channel to transport channel mapping, and shall always use 2 bits for this field.</p> <p>Ref 3G TS 25.321 table 9.2.1.6</p>
MAC_UM_Data	BITSTRING[0..32767]		<p>Data content for a RLC UM PDU with 7 or 15 bit length indicators. Ref 3G TS 25.322 clause 9.2.2.9, Even though the UM Data will be octet bound this is defined as BitString so as to accomodate the Failure test cases, with non standard MAC header.</p>
PktFlowId	OCTETSTRING[1]		<p>This can take values as per 24.008, section 10.5.6.11</p>
LLMEID	INTEGER		<p>The identifier of the Logical Link Management Entity in SGSN</p>
B10	BITSTRING [10]		<p>A BitString with a length of 10</p>
B12	BITSTRING [12]		<p>A BitString with a length of 12</p>
B14	BITSTRING [14]		<p>A BitString with a length of 14</p>
B24	BITSTRING [24]		<p>A BitString with a length of 24</p>
B64	BITSTRING [64]		<p>A BitString with a length of 64</p>
BCCHFreq	BITSTRING [5]		<p>position of a bcch carrier in the bcch channel list</p>
CellId	INTEGER		

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
ChannelCoding	INTEGER		1 – CS–1; 2 – CS–2; 3 – CS–3; 4 – CS–4; 5 – MCS–1; 6 – MCS–2; 7 – MCS–3; 8 – MCS–4; 9 – MCS–5; 10 – MCS–6; 11 – MCS–7; 12 – MCS–8; 13 – MCS–9; 14 – MCS–5–7; 15 – MCS–6–9
ChannelCombination	INTEGER		The value of channelCombination permitted currently: 1 TCH/F + FACCH/F + SACCH/TF 2 TCH/H(0,1) + FACCH/H(0,1) + SACCH/TH(0,1) 3 TCH/H(0,0) + FACCH/H(0,1) + SACCH/TH(0,1) + TCH/H(1,1) 4 FCCH + SCH + BCCH + CCCH 5 FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3) 6 BCCH + CCCH 7 SDCCH/8(0..7) + SACCH/C8(0..7) 8 TCH/F + FACCH/F + SACCH/M 9 TCH/F + SACCH/M 10 TCH/FD + SACCH/MD 11 PBCCH+PCCCH+PDTCH/ F+PACCH/F+PTCCH/F 12 PCCCH+PDTCH/F+PACC H/F+PTCCH/F 13 PDTCH/F+PACCH/F+PTCC H/F 18 E–TCH/F + E–IACCH/F + E–FACCH/F + SACCH/TF 19 E–TCH/F + E–IACCH/F + E–FACCH/F + SACCH/M 20 E–TCH/F + E–IACCH/F + SACCH/M 21 E–TCH/FD + E–IACCH/F + SACCH/MD

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
EGPRSWindowSize	BITSTRING [5]		3GPP TS 44.060 clause 12.5.2
EstMode	OCTETSTRING [1]		establish mode
GPRS_CipherAlg	BITSTRING[3]		3GPP TS 24.008 section 10.5.5.3
G_LogicChType	INTEGER		logical channel types in GERAN: 0–BCCH; 1–RACH; 2–PCH; 3–AGCH; 4–SDCCH/4; 5–SACCH/C4; 6–SDCCH/8; 7–SACCH/C8; 8–TCH/F; 9–FACCH/F; 10–SACCH/TF; 11–TCH/H; 12–FACCH/H; 13–SACCH/TH; 14–PBCCH; 15–PRACH; 16–PPCH; 17–PAGCH; 18–PDTCH/F; 19–PACCH/F; 20–PTCCH/F; 21–E–TCH/F; 22–E–IACCH/F; 23–E–FACCH/F; 24–SACCH/M; 25–SACCH/MD
H3	HEXSTRING [3]		Generic type for 3 hex value
IEI_4	BITSTRING [4]		information element identifier, type 1
IEI_8	BITSTRING [8]		information element identifier, type 2–4
MessageType	BITSTRING[6]		message type for GPRS RLC/MAC control messages. 3GPP TS 44.060 clause 11.2.0
NCCPermitted	OCTETSTRING [1]		ncc permitted
O1	OCTETSTRING [1]		Generic type for 1 octet value
O15	OCTETSTRING [15]		Generic type for 15 octet value
O16	OCTETSTRING [16]		Generic type for 16 octet value
O2	OCTETSTRING [2]		Generic type for 2 octet value
O4	OCTETSTRING [4]		Generic type for 4 octet value
PAGING_GROUP	INTEGER		see 3GPP TS 45.002 clause 6.5.2 and 6.5.6

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
PSI1_REPEAT_PERIOD	BITSTRING[4]		The repeat period of packet system information Type 1. See 3GPP TS 44.060 section 11.2.18
PSI_COUNT_HR	BITSTRING[4]		The number of PSI message instances sent with high repetition rate. See 3GPP TS 44.060 section 11.2.18
PSI_COUNT_LR	BITSTRING[6]		The number of PSI message instances sent with low repetition rate. See 3GPP TS 44.060 section 11.2.18
PSI_Category	INTEGER(0..2)		3GPP TS 05.02 or 3GPP TS 45.002 clause 6.3.2.4
PagingMode	INTEGER		
PhysicalChId	INTEGER(0..31)		Physical channel identifier in GERAN emulator
PositionInList	INTEGER		0 is the first position; 1 is the second, and so on.
RRBP	BITSTRING[2]		relativ reserved block period
RxLevel	BITSTRING [6]		3GPP TS 04.60 or 3GPP TS 44.060 clause 10.4.5 received signal strength
SAPI	INTEGER		Service access point of GERAN L2 or GERAN LLC
S_P_Bit	BITSTRING[1]		supplementary/polling bit for downlink RLC/MAC control mesage 0 – RRBP field is not valid; 1 – RRBP field is valid.
SubChannelNumber	INTEGER		Subchannel number for TCH/H, FACCH/H, SACCH/TH, SDCCH/4. SDCCH/C4, SDCCH/8 and SDCCH/C8. For TCH/H, FACCH/H and SACCH/TH value is (0..1); For SDCCH/8 and SACCH/C8 value is (0..7); For SDCCH/4 and SACCH/C4 value is (0..3).

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
SysInfoType	INTEGER		25--SYSTEM INFORMATION TYPE 1 26--SYSTEM INFORMATION TYPE 2 27--SYSTEM INFORMATION TYPE 3 28--SYSTEM INFORMATION TYPE 4 29--SYSTEM INFORMATION TYPE 5 30--SYSTEM INFORMATION TYPE 6 31--SYSTEM INFORMATION TYPE 7 24--SYSTEM INFORMATION TYPE 8 4--SYSTEM INFORMATION TYPE 9 0--SYSTEM INFORMATION TYPE 13 61--SYSTEM INFORMATION TYPE 16 62--SYSTEM INFORMATION TYPE 17 64--SYSTEM INFORMATION TYPE 18 65--SYSTEM INFORMATION TYPE 19 66--SYSTEM INFORMATION TYPE 20 2--SYSTEM INFORMATION TYPE 2bis 3--SYSTEM INFORMATION TYPE 2ter 7--SYSTEM INFORMATION TYPE 2quater 5--SYSTEM INFORMATION TYPE 5bis 6--SYSTEM INFORMATION TYPE 5ter
TFI	BITSTRING[5]		temporary flow identity

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
TLI	OCTETSTRING[4]		temporary logical link identifier
TN	B3		time slot number
TSC	B3		Training sequence code,GSM 04.08 10.5.2.5
TX_Power	INTEGER		transmission power level of a physical channel. the unit is dBuVemf
LLMEId	INTEGER		Logical Layer Management Entity Id
AccessPtN	OCTETSTRING[1..100]		This is the DNS name. This can take values as per 24.008, 10.5.6.1
AddressInfo	OCTETSTRING[0..16]		Address information, this is the DNS server name. this will be converted into
AM_Data	OCTETSTRING[0..4095]		Data content for a RLC AM PDU with 7 or 15 bit length indicators. Ref 3G TS 25.322 clause 9.2.2.9
AM_SeqNum	BITSTRING[12]		Sequence number for an AM RLC PDU. Ref 3G TS 25.322 clause 9.2.2.3
AuthRsp	BITSTRING [32]		Authentication Response Parameter 3G TS 24.008 cl. 10.5.3.2
B1	BITSTRING [1]		Generic type for 1 bit value
B128	BITSTRING [128]		Generic type for 128 bit value
B16	BITSTRING [16]		Generic type for 16 bits value
B18	BITSTRING [18]		Generic type for 18 bits value
B2	BITSTRING [2]		Generic type for 2 bits value
B20	BITSTRING [20]		Generic type for 20 bits value
B3	BITSTRING [3]		Generic type for 3 bits value
B4	BITSTRING [4]		Generic type for 4 bits value
B48	BITSTRING [48]		Generic type for 48 bit value
B5	BITSTRING [5]		Generic type for 5 bits value
B6	BITSTRING [6]		Generic type for 6 bits value
B7	BITSTRING [7]		Generic type for 7 bits value
B8	BITSTRING [8]		Generic type for 8 bits value
B80	BITSTRING [80]		Generic type for 80 bit value
Bitmap	OCTETSTRING[1..16]		The bitmap within a Bitmap super-field. Ref 3G TS 25.322 clause 9.2.2.11.5
BitmapLen	BITSTRING[4]		The length of a bitmap super field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.11.5

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
BitRate	OCTETSTRING[1]		Maximum bit rates supported
CauseValue	OCTETSTRING[1]		SM Cause Value
CLIR_Invocation	BITSTRING('10100010'B)		CLIR invocation 3G TS 24.008 cl. 10.5.4.11b
CLIR_Suppression	BITSTRING('10100001'B)		CLIR suppression 3G TS 24.008 cl. 10.5.4.11a
CtrlPDU_Type	BITSTRING[3]		PDU type for AM STATUS PDUs. Ref 3G TS 25.322 clause 9.2.2.2
CTSPerm	IEI8		CTSPerm 3G TS 24.008 cl. 10.5.3.10 value "10100010"B
CW_NumberPart	BITSTRING[3]		The number part (X1X2X3) of a codeword in an RLIST SUFI. Ref 3G TS 25.322 clause 9.2.2.11.6
DC_Field	BITSTRING[1]		Control / Data type indicator for AM RLC PDU. Ref 3G TS 25.322 clause 9.2.2.1
ExtBit	BITSTRING[1]		Used to indicate if the next octet will be data, or a length indicator and E bit. Ref 3G TS 25.322 clause 9.2.2.5
FollowOnProceed	IEI8		Follow On Proceed 3G TS 24.008 cl. 10.5.3.7 value "10100001"B
Fresh	BITSTRING[32]		
GSM_CipheringKey	BITSTRING [64]		
HeaderExt	BITSTRING[2]		Used to indicate if the next octet will be data, or a length indicator and E bit. Ref 3G TS 25.322 clause 9.2.2.7
IEI4	B4		information element identifier, type 1
IEI8	B8		information element identifier, type 2–4
IntegrityKey	BITSTRING[128]		
KeySeq	B3		ciphering key sequence 3G TS 24008 cl. 10.5.1.2
Length	OCTETSTRING [1]		IE length
LenInd15	BITSTRING[15]		15 bit length indicator for AM or UM RLC PDU. Ref 3G TS 25.322 9.2.2.8
LenInd7	BITSTRING[7]		7 bit length indicator for AM or UM RLC PDU. Ref 3G TS 25.322 9.2.2.8
LIST_Len	BITSTRING[4]		The length of a LIST super field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.11.4
LogicChGERAN	IA5String		Logical channel (used for Interworking with GERAN)

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
MaxBitRate	OCTETSTRING[1]		Gaurented Bit rate
MaxSDU_Size	OCTETSTRING[1]		Maximum SDU size
MM_RAND	BITSTRING [128]		Authentication parameter RAND 3G TS 24.008 cl. 10.5.3.1
MRW_Len	BITSTRING[4]		The length of a MRW super field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.11.8
MsgType	B8		Message Type 3G TS 24.008 cl. 10.4. This type is also used by the BMC protocol.
N_Length	BITSTRING[4]		The N_Length field within an MRW superfield. Ref 3G TS 25.322 clause 9.2.2.11.8
O0_8	OCTETSTRING[0..8]		Generic type for 0 to 8 byte value
O3	OCTETSTRING [3]		Generic type for 3 byte value
Padding	HEXSTRING[2..8192]		Padding for RLC UM or AM PDU. Ref 3G TS 25.322 clause 9.2.2.10 Note that this type should ideally be an OCTETSTRING[1..4096], but since TTCN does not have a predefined operator for INT_TO_OCT, a HEXSTRING is used instead.
PDP_TypeNo	OCTETSTRING[1]		PDP Type number, this will take values 00000001: PDP Type PPP 00000010: PDP Type IHOSS 01000001: IPv5 01010111: IPv6
PollingBit	BITSTRING[1]		This can take values as per 24.008, clause 10.5.6.4 Polling bit used to request a status report from the receiveing RLC AM entitiy. Ref 3G TS 25.322 clause 9.2.2.4
ProtocolDiscriminator	B4		Protocol Discriminator 3G TS 24.008 cl. 10.2
ProtoldContents	OCTETSTRING[1..251]		3G TS 24.008 cl. 10.5.6.3
RejCau	OCTETSTRING[1]		Reject Cause 3G TS 24.008 cl. 10.5.3.6
RLIST_Len	BITSTRING[4]		The length of a RLIST super field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.11.6

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
SapId	OCTETSTRING [1]		SAP Identifier ??? defined in several places
SkipIndicator	B4		GERAN 04.06 and 3G TS 24.008 as bitstring[2] ? Skip Indicator 3G TS 24.008 cl. 10.3.1
SS_CN_DomainIdentity	INTEGER (0..1)		CN domain identity type in TTCN tabular format
SS_RB_Identity	INTEGER (-31..32)		RB identity type in TTCN tabular format
SUFI_ListLi	BITSTRING[4]		Number of consecutive PDUs not correctly received following PDU with sequence number SNi. Used in List super field. Ref 3G TS 25.322 clause 9.2.2.11.4
SUFI_SN_MRWi	BITSTRING[12]		SN_MRWi field to be used within move receiving window super fields. Ref 3G TS 25.322 clause 9.2.2.11.7
SUFI_Type	BITSTRING[4]		The type of a super field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.11
UE_TestLoopMode	OCTETSTRING[1]		UETestLoopMode 3G TS 34.109 cl. 6.2
UM_SeqNum	BITSTRING[7]		Sequence number for an UM RLC PDU. Ref 3G TS 25.322 clause 9.2.2.3
UTRAN_GERAN	IA5String ("UTRAN and GERAN", "UTRAN only")		
Detailed Comments :			

Structured Type Definition			
Type Name : HSDPA_TestPoint			
Encoding Variation :			
Comments :			
Element Name	Type Definition	Field Encoding	Comments
flag	BOOLEAN		
noOfChannelisatonCodes	INTEGER		Range 1 to 15 Valid value ifflag =TRUE
tbSizeIndexOnHS_SCCH	INTEGER		Range0 to 62, 63 is reserved Valid value ifflag =TRUE
Detailed Comments :			

Structured Type Definition			
Type Name : MAC_H_Header Encoding Variation : Comments : Reference 25.321 clause 9.1.4 & 9.2.2			
Element Name	Type Definition	Field Encoding	Comments
vf	B1		Version Flag 1.
queueID	B3		Queue Identifier 2.
tsn	B6		Transmission Seq. Num. 3.
sid1	B3		Size Indicator 4.
n1	B7		number of Consecutive PDUS 5.
f1	B1		Flag 6.
sid2	B3		Size Indicator 4.
n2	B7		number of Consecutive PDUS 5.
f2	B1		Flag 6.
sid3	B3		Size Indicator 4.
n3	B7		number of Consecutive PDUS 5.
f3	B1		Flag 6.
sid4	B3		Size Indicator 4.
n4	B7		number of Consecutive PDUS 5.
f4	B1		Flag 6.
sid5	B3		Size Indicator 4.
n5	B7		number of Consecutive PDUS 5.
f5	B1		Flag 6.
sid6	B3		Size Indicator 4.
n6	B7		number of Consecutive PDUS 5.
f6	B1		Flag 6.
sid7	B3		Size Indicator 4.
n7	B7		number of Consecutive PDUS 5.
f7	B1		Flag 6.
sid8	B3		Size Indicator 4.
n8	B7		number of Consecutive PDUS 5.
f8	B1		Flag 6.
Detailed Comments : 1. The VF field is a one bit flag providing extension capabilities of the MAC–hs PDU format. The VF field shall be set to zero and the value one is reserved in this version of the protocol 2. The Queue ID field provides identification of the reordering queue in the receiver, in order to support independent buffer handling of data belonging to different reordering queues. The length of the Queue ID field is 3 bit. 3. The TSN field provides an identifier for the transmission sequence number on the HS–DSCH. The TSN field is used for reordering purposes to support in–sequence delivery to higher layers. The length of the TSN field is 6 bit. 4. The SID fields identifies the size of a set of consecutive MAC–d PDUs. The MAC–d PDU size for a given SID is configured by higher layers and is independent for each Queue ID. The length of the SID field is 3 bit. 5. The number of consecutive MAC–d PDUs with equal size is identified with the N field. The length of the N field is 7 bits. In FDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 70. In 1.28 Mcps TDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 45. In 3.84 Mcps TDD mode, the maximum			

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Structured Type Definition	
Detailed Comments :	<p>... number of PDUs transmitted in a single TTI shall be assumed to be 318. If more PDUs than the defined maximum number of PDUs for the corresponding mode are received, the UE behaviour is unspecified.</p> <p>6. The F field is a flag indicating if more fields are present in the MAC-hs header or not. If the F field is set to "0" the F field is followed by an additional set of SID, N and F fields. If the F field is set to "1" the F field is followed by a MAC-d PDU. The maximum number of MAC-hs header extensions, i.e. number of fields F set to "0", in a single TTI shall be assumed to be 7. If more extensions than the maximum defined for the corresponding mode are included in a TTI, the UE behaviour is unspecified.</p>

Structured Type Definition			
Type Name : PktDataProtoAddr Encoding Variation : Comments : 24.007, clause 10.5.6.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00101011'B (2Bhex))
length	Length		
spare	B4		
pDP_TypeOrg	B4		PDP type organisation
pDP_TypeNo	PDP_TypeNo		PDP type number
addrInfo	AddressInfo		Address Information
Detailed Comments :			

Structured Type Definition			
Type Name : PktFlowIdentifier Encoding Variation : Comments : 24.007, section 10.5.6.11			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00110100'B (34hex)
length	Length		
pktFlowIdentifier	PktFlowId		spare + 7 bits
Detailed Comments :			

Structured Type Definition			
Type Name : luModeCellSelection Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
cellBarQuality3	B2		
mask	B1		
sI13AltPBCCHLocation	SI13PBCCH_Location		
Detailed Comments :			

Structured Type Definition			
Type Name : luModeNCParams Encoding Variation : Comments : This definition includes: { 0 | 1 < lu Mode Cell Selection Params : <lu Mode Cell Selection struct>> } * (val(NR_OF_REMAINING_CELLS)) But only 1 repetition has been defined here. This TTCN definition will be modified if more repetitions are required			
Element Name	Type Definition	Field Encoding	Comments
noOfRemainingCells	B4		
mask1	B1		
luModeCellSelection1	luModeCellSelection		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : luModeNeighbourCellParamsList Encoding Variation : Comments : The definition in CSN.1 is {1 < lu Mode Neighbour Cell Params struct >}**0, so the prefix bit and following structure may repeat infinite times, this TTCN definition shall be modified to include more lu Mode Neighbour Cell Params if more than 1 lu Mode Neighbour Cell Params are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.20.1			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		
luModeNCParams1	luModeNCParams		
endingRepetition	B1		not present if prefix1 = 0 Value always ZERO, indicates the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : luModeOnlyCellSelectionParams Encoding Variation : Comments : 3GPP TS 44.060 clause 11.2.20.1			
Element Name	Type Definition	Field Encoding	Comments
bSIC	B6		
cELL_BAR_QUALIFY3	B2		
sAME_RA_AS_SERVING_CELL	B1		
gPRS_PwrMask	B1		
gPRS_RXLEV_ACCESS_MIN	B6		not present if gPRS_PwrMask = 0
gPRS_MS_TXPWR_MAX_CCH	B5		not present if gPRS_PwrMask = 0
gPRS_SelectMask	B1		
gPRS_TEMPORARY_OFFSET	B3		not present if gPRS_SelectMask = 0
gPRS_PENALTY_TIME	B5		not present if gPRS_SelectMask = 0
gPRS_ReselectMask	B1		
gPRS_RESELECT_OFFSET	B5		not present if gPRS_ReselectMask = 0
hCS_Mask	B1		
hCS_Params	HCS		not present if hCS_Mask = 0
sl13_Mask	B1		
sl13AltPBCCH_LOCATION	Sl13PBCCH_Location		not present if sl13_Mask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : luModeOnlyNCPParams Encoding Variation : Comments : This definition includes: {< FREQUENCY_DIFF : bit (1 + val(FREQ_DIFF_LENGTH)) > < lu mode Only Cell selection params : < lu mode Only Cell Selection struct > >} * (val(NR_OF_REMAINING_CELLS)); But only 1 repetition has been defined here. This TTCN definition will be modified if more repetitions are required Reference : 3GPP TS 44.060 clause 11.2.20.1			
Element Name	Type Definition	Field Encoding	Comments
startFreq	B10		
luModeOnlyCellSelectionParams	luModeOnlyCellSelectionParams		
noOfRemainingCells	B4		
freqDiffLength	B3		
freqDiff1	BITSTRING		1 + val(FREQ_DIFF_LENGTH) bits
luModeOnlyCellSelectionParams1	luModeOnlyCellSelectionParams		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : luModeOnlyNeighbourCellParamsList Encoding Variation : Comments : The definition in CSN.1 is {1 < lu Mode Only Neighbour Cell Params struct >}**0, so the prefix bit and following structure may repeat infinite times, this TTCN definition shall be modified to include more lu Mode Only Neighbour Cell Params if more than 1 lu Mode Only Neighbour Cell Params are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.20.1			
Element Name	Type Definition	Field Encoding	Comments
prefix1 luModeOnlyNCPParams1 endingRepetition	B1 luModeOnlyNCPParams B1		not present if prefix1 = 0 Value always ZERO, indicates the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : TimeSlotAllocation Encoding Variation : Comments : used for down link and up link TBF			
Element Name	Type Definition	Field Encoding	Comments
physicalChId	PhysicalChId		Single PDCH or multi-slot configured PDCHs
tN0	BOOLEAN		TRUE – time slot 0 is allocated; FALSE --- not allocated
tN1	BOOLEAN		TRUE – time slot 1 is allocated; FALSE --- not allocated
tN2	BOOLEAN		TRUE – time slot 2 is allocated; FALSE --- not allocated
tN3	BOOLEAN		TRUE – time slot 3 is allocated; FALSE --- not allocated
tN4	BOOLEAN		TRUE – time slot 4 is allocated; FALSE --- not allocated
tN5	BOOLEAN		TRUE – time slot 5 is allocated; FALSE --- not allocated
tN6	BOOLEAN		TRUE – time slot 6 is allocated; FALSE --- not allocated
tN7	BOOLEAN		TRUE – time slot 7 is allocated; FALSE --- not allocated
Detailed Comments :			

Structured Type Definition			
Type Name : ARFCN_IndexList			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 12.10a			
Element Name	Type Definition	Field Encoding	Comments
aRFCN_Index1	B6		the value of the bit is always zero to indicate the end of the structure
aRFCN_Index2	B6		
aRFCN_Index3	B6		
aRFCN_Index4	B6		
aRFCN_Index5	B6		
end_Bit	B1		
Detailed Comments : It's a recursive structure. The definition is <ARFCN index list struct> ::= <ARFCN_INDEX : bit(6)> {0 | 1 <ARFCN index list struct>}. This TTCN definition shall be modified to include more aRFCN_Index if more than 5 aRFCN_Index are required in the Constraint.			

Structured Type Definition			
Type Name : AccessTechRequest Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.16 the definition is <Access Technologies Request struct> ::= <Access Technology Type : bit(4)> {0 | 1 <Access Technology Request struct>} if more than 4 access technologies are required in the constraint the TTCN definition shall be modified.			
Element Name	Type Definition	Field Encoding	Comments
accessTechType1	B4		always = 1
prefix1	B1		
accessTechType2	B4		always = 1
prefix2	B1		
accessTechType3	B4		always = 1
prefix3	B1		
accessTechType4	B4		always = 0 indicating the end of the structure
endingReptition	B1		
Detailed Comments :			

Structured Type Definition			
Type Name : AdditionalMeasParam3G Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
fddQminOffset	B3		
fddRSCPmin	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : AdditionalPSIMessages Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
nON_GSM_INFORMATION	B2		
pSI8_BROADCAST	B1		
pSI3ter_BROADCAST	B1		
pSI3quater_BROADCAST	B1		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : BA_FreqList Encoding Variation : Comments : BA Freq list 3GPP TS 44.018 clause 10.5.2.1c			
Element Name	Type Definition	Field Encoding	Comments
prefixBit1	B1		always = 1
bA_Freq1	B10		
prefixBit2	B1		always = 1
bA_Freq2	B10		
prefixBit3	B1		always = 1
bA_Freq3	B10		
prefixBit4	B1		always = 1
bA_Freq4	B10		
prefixBit5	B1		always = 1
bA_Freq5	B10		
prefixBit6	B1		always = 1
bA_Freq6	B10		
prefixBit7	B1		always = 1
bA_Freq7	B10		
prefixBit8	B1		always = 1
bA_Freq8	B10		
prefixBit9	B1		always = 1
bA_Freq9	B10		
prefixBit10	B1		always = 1
bA_Freq10	B10		
endingBit	B1		always = 0 indicating the end of the structure
Detailed Comments : the TTCN definition shall be modified if more than 10 BA Freq are required in the constraint			

Structured Type Definition			
Type Name : BA_ListPref Encoding Variation : Comments : BA list pref 3GPP TS 44.018 clause 10.5.2.1c			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01110101'B
iel	O1		
rangeList	RangeList		1
bA_FreqList	BA_FreqList		
spareBits	BITSTRING		
Detailed Comments :			

Structured Type Definition			
Type Name : BA_Range			
Encoding Variation :			
Comments : BA range 3GPP TS 44.018 clause 10.5.2.1a			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		number of ranges, at least 1
iel	O1		
numberOfRanges	O1		
ranges	OCTETSTRING		
Detailed Comments :			

Structured Type Definition			
Type Name : CCCH_Info Encoding Variation : Comments : parameters for common control channels			
Element Name	Type Definition	Field Encoding	Comments
bS_PA_MFRMS	B3		the number of 51-multiframes between transmission of paging messages. Definition see 3GPP TS 44.018 section 10.5.2.11
bS_AG_BLKES_RES	B3		the number of blocks on each common control channel reserved for access grant messages. Definition see 3GPP TS 44.018 section 10.5.2.11
Detailed Comments :			

Structured Type Definition			
Type Name : CCN_SupportDescr Encoding Variation : Comments : CCN Support Description. the definition is <CCN Support Description struct> ::= <Number_Cells> : bit(7)> {CCN_SUPPORTED : bit}* (Val(Number_Cells)), the number of cells can be upto 127 from above definition. The TTCN definition here includes only 1 cell, the TTCN shall be modified if more than 1 cell is required in the test case.			
Element Name	Type Definition	Field Encoding	Comments
numberCells	B7		
cCN_SUPPORTED1	B1		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : COMPACT_NCP2_Property Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
sAME_RA_AS_SERVING_CELL	B1		
cELL_BAR_ACCESS_2	B1		
bCC	B3		
timeMask	B1		
tIME_GROUP	B2		not present if timeMask = 0
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : COMPACT_NCP2_Repeat Encoding Variation : Comments : Only 1 repetition has been included. If more are required, the TTCN will be changed			
Element Name	Type Definition	Field Encoding	Comments
prefix	B1		The rest fields are all OMITted if prefix = 0
sTART_FREQUENCY1	B10		
nCP2_Property1	COMPACT_NCP2_Property		
nR_OF_REMAINING_CELL S1	B4		if value is equal to 0, the rest fields except endingRepetition are all OMITted
fREQ_DIFF_LENGTH1	B3		
fREQUENCY_DIFF2	BITSTRING[1..8]		number of bits in the BITSTRING= 1+val(fREQ_DIFF_LENGTH1)
nCP2_Property2	COMPACT_NCP2_Property		
fREQUENCY_DIFF3	BITSTRING[1..8]		
nCP2_Property3	COMPACT_NCP2_Property		
fREQUENCY_DIFF4	BITSTRING[1..8]		
nCP2_Property4	COMPACT_NCP2_Property		
recursionBreak	B4		if present always = '0000'B indicating the end of COMPACT_NCP2 recursion, i.e NR_OF_REMAINING_CELLS = 0000
endingRepetition	B1		if present always = '0'B indicating no more START_FREQUENCY
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : COMPACT_NeighParamSet Encoding Variation : Comments : COMPACT Neighbour parameters set structure			
Element Name	Type Definition	Field Encoding	Comments
nccMask	B1		
nCC	B3		not present if nccMask = 0
eXC_ACC	B1		
rxlevMask	B1		
gPRS_RXLEV_ACCESS_MIN	B6		not present if rxlevMask = 0
txpwrMask	B1		
gPRS_MS_TXPWR_MAX_CCH	B5		not present if txpwrMask = 0
priorityMask	B1		
pRRIORITY_CLASS	B3		not present if priorityMask = 0
hcsMask	B1		
hCS_THR	B5		not present if hcsMask = 0
gPRS_TEMPORARY_OFFSET	B3		
gPRS_PENALTY_TIME	B5		
gPRS_RESELECT_OFFSET	B5		
guarMmask	B1		
gUAR_CONSTANT_PWR_BLKS	B2		not present if guarMask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : CellAlloc Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
rFL_NUMBER	B4		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : CellAllocLists Encoding Variation : Comments : The definition in CSN.1 is {1 < Cell Allocation struct >}**0, so the prefix bit and following structure may repeat infinite times, this TTCN definition shall be modified to include more CellAllocation if more than 1 CellAllocation are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.19			
Element Name	Type Definition	Field Encoding	Comments
prefix1 cellAlloc1 endingRepetition	B1 CellAlloc B1		not present if prefix1 = 0 Value always ZERO, indicates the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : CellChDescr Encoding Variation : Comments : Cell channel description 3GPP TS 44.018 clause 10.5.2.1b			
Element Name	Type Definition	Field Encoding	Comments
iei refFreqList	IEI_8 O16		'01100010'B reference frequency list, the first octet is length
Detailed Comments :			

Structured Type Definition			
Type Name : CellIdentification Encoding Variation : Comments : 3GPP TS 44.060 clause 12.23			
Element Name	Type Definition	Field Encoding	Comments
locationAreaidentificationIE rAC cellIdentityIE	LocAreaid_v O1 O2		3GPP TS 44.018 3GPP TS 23.003 3GPP TS 44.018
Detailed Comments :			

Structured Type Definition			
Type Name : CellOptionBCCH Encoding Variation : Comments : Cell options (BCCH) 3GPP TS 44.018 clause 10.5.2.3			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information lelement identifier
dN_Ind	B1		dynamic ARFCN mapping indicator
pwrC	B1		power control indicator
dtX	B2		discontinuous transmission indicator
radioLinkTimeout	B4		radio link timeout
Detailed Comments :			

Structured Type Definition			
Type Name : CellOptionSACCH Encoding Variation : Comments : Cell options (SACCH) 3GPP TS 44.018 clause 10.5.2.3a			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information lelement identifier
dtX8	B1		high bit of discontinuous transmission
pwrC	B1		power control indicator
dtX65	B2		lower 2 bits of discontinuous transmission indicator
radioLinkTimeout	B4		radio link timeout
Detailed Comments :			

Structured Type Definition			
Type Name : CellSelParam Encoding Variation : Comments : Cell selection parameters 3GPP TS 44.018 clause 10.5.2.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information element identifier
cellReselHysteresis	B3		cell reselected hysteresis
mS_TXPWR_MAX_CCH	B5		MS maximum TX power for CCH
acs	B1		additional reselect parameter indicator
neci	B1		half rate support
rXLEV_ACCESS_MIN	B6		MS minimum received signal level
Detailed Comments :			

Structured Type Definition			
Type Name : CellSelection Encoding Variation : Comments : 3GPP TS 44.060 clause 11.2.20			
Element Name	Type Definition	Field Encoding	Comments
bSIC	B6		
cELL_BAR_ACCESS_2	B1		
eXC_ACC	B1		
sAME_RA_AS_SERVING_CELL	B1		
gPRS_PwrMask	B1		
gPRS_RXLEV_ACCESS_MIN	B6		not present if gPRS_PwrMask = 0
gPRS_MS_TXPWR_MAX_CCH	B5		not present if gPRS_PwrMask = 0
gPRS_SelectMask	B1		
gPRS_TEMPORARY_OFFSET	B3		not present if gPRS_SelectMask = 0
gPRS_PENALTY_TIME	B5		not present if gPRS_SelectMask = 0
gPRS_ReselectMask	B1		
gPRS_RESELECT_OFFSET	B5		not present if gPRS_ReselectMask = 0
hCS_Mask	B1		
hCS_Params	HCS		not present if hCS_Mask = 0
sl13_Mask	B1		
sl13_PBCCH_LOCATION	SI13PBCCH_Location		not present if sl13_Mask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : ChMode Encoding Variation : Comments : Channel mode 3GPP TS 44.018 clause 10.5.2.6			
Element Name	Type Definition	Field Encoding	Comments
iei mode	IEI_8 B8		'01100011'B
Detailed Comments : 0 0 0 0 0 0 0 0 signalling only 0 0 0 0 0 0 0 1 speech full rate or half rate version 1 0 0 1 0 0 0 0 1 speech full rate or half rate version 2 0 1 0 0 0 0 0 1 speech full rate or half rate version 3 0 1 1 0 0 0 0 1 data, 43.5 kbit/s (downlink)+14.5 kbps (uplink) 0 1 1 0 0 0 1 0 data, 29.0 kbit/s (downlink)+14.5 kbps (uplink) 0 1 1 0 0 1 0 0 data, 43.5 kbit/s (downlink)+29.0 kbps (uplink) 0 1 1 0 0 1 1 1 data, 14.5 kbit/s (downlink)+43.5 kbps (uplink) 0 1 1 0 0 1 0 1 data, 14.5 kbit/s (downlink)+29.0 kbps (uplink) 0 1 1 0 0 1 1 0 data, 29.0 kbit/s (downlink)+43.5 kbps (uplink) 0 0 1 0 0 1 1 1 data, 43.5 kbit/s radio interface rate 0 1 1 0 0 0 1 1 data, 32.0 kbit/s radio interface rate 0 1 0 0 0 0 1 1 data, 29.0 kbit/s radio interface rate 0 0 0 0 1 1 1 1 data, 14.5 kbit/s radio interface rate 0 0 0 0 0 0 1 1 data, 12.0 kbit/s radio interface rate 0 0 0 0 1 0 1 1 data, 6.0 kbit/s radio interface rate 0 0 0 1 0 0 1 1 data, 3.6 kbit/s radio interface rate			

Structured Type Definition			
Type Name : ChannelDescr Encoding Variation : Comments : Channel description 3GPP TS 44.018 clause 10.5.2.5			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01100100'B
cht_schn	B5		channel type and TDMA offset
tn	B3		timeslot number
tsc	B3		training sequence code
hch	B1		hch = 1 indicating hopping channel
maio	B6		mobile allocation index offset – hopping
hsn	B6		hopping sequence number – hopping
spr	B2		'00'B – non hopping
arfcn	B10		absolute RF channel number – non hopping
Detailed Comments :			

Structured Type Definition			
Type Name : ChannelSpecificInfo Encoding Variation : Comments : parameters for individual channel			
Element Name	Type Definition	Field Encoding	Comments
dedCH_Info	DedCH_Info		parameters for dedicated channel. valid for combinations: 1, 2, 3, 5, 7, 8, 9, 10
cCCH_Info	CCCH_Info		parameters for common control channels: PCH, SCH, ... valid for combinations: 4, 5, 6
pCCCH_Info	PCCCH_Info		parameters for packet common control channels: PCCCH, PPCH, ... valid for combinations: 11, 12
pBCCH_Info	PBCCH_Info		parameters for packet broadcast channel: PBCCH. valid for combination: 11
Detailed Comments :			

Structured Type Definition			
Type Name : CipherModeSetting Encoding Variation : Comments : Cipher mode setting 3GPP TS 44.018 clause 10.5.2.9			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		'1001'B
algld	B3		algorithm identifier
startingCiph	B1		starting ciphering, 1 = start
Detailed Comments :			

Structured Type Definition			
Type Name : CompactCellSelection Encoding Variation : Comments : 3GPP TS 44.060 clause 11.2.20			
Element Name	Type Definition	Field Encoding	Comments
bSIC	B6		
cELL_BAR_ACCESS_2	B1		
eXC_ACC	B1		
sAME_RA_AS_SERVING_CELL	B1		
gPRS_Mask1	B1		
gPRS_RXLEV_ACCESS_MIN	B6		not present if gPRS_Mask1 = 0
gPRS_MS_TXPWR_MAX_CCH	B5		not present if gPRS_Mask1 = 0
gPRS_Mask2	B1		
gPRS_TEMPORARY_OFFSET	B3		not present if gPRS_Mask2 = 0
gPRS_PENALTY_TIME	B5		not present if gPRS_Mask2 = 0
gPRS_Mask3	B1		
gPRS_RESELECT_OFFSET	B5		not present if gPRS_Mask3 = 0
hCS_Mask	B1		
hCS_Params	HCS		not present if hCS_Mask = 0
tIME_GROUPMask	B1		
tIME_GROUP	B2		not present if tIME_GROUPMask = 0
gUARMask	B1		
gUAR_CONSTANT_PWR_BLKS	B2		not present if gUARMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : CompactControlInfo Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
largeCellOperation	B1		
numberOfIdleMask	B1		
numberOfIdleBlocks	NumberOfIdleBlocks		not present if numberOfIdleMask = 0
n_CCCH_NH_Mask	B1		
n_CCCH_NH	B4		not present if n_CCCH_NH_Mask = 0
Detailed Comments : Reference :3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : CompactInfo Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
cellIdentification	CellIdentification		
compactNeighbourCellParam	CompactNeighCellParamList		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : CompactNeighCellParam Encoding Variation : Comments : Compact Neighbour Cell Parameters Structure			
Element Name	Type Definition	Field Encoding	Comments
sTART_FREQUENCY	B10		
compactCellSelectionParams	CompactCellSelection		
nR_OF_REMAINING_CELLS	B4		
fREQ_DIFF_LENGTH	B3		
fFREQUENCY_DIFF1	BITSTRING[1..8]		the length of this field is 1 + Val(fFREQUENCY_DIFF_LENGTH)
compactCellSelectionParams 1	CompactCellSelection		
fFREQUENCY_DIFF2	BITSTRING[1..8]		the length of this field is 1 + Val(fFREQUENCY_DIFF_LENGTH)
compactCellSelectionParams 2	CompactCellSelection		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20 More fFREQUENCY_DIFF + compactCellSelectionParams shall be added in this type definition if value of nR_OF_REMAINING_CELLS is greater than 2 . In a constraint the value of nR_OF_REMAINING_CELLS indicates the number of repetitions of fFREQUENCY_DIFF and compactCellSelectionParams			

Structured Type Definition			
Type Name : CompactNeighCellParam2 Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
messageEscape	B2		always = '00'B
prefix1	B1		The rest fields are all OMITted if prefix1 = 0
cOMPACT_NCP2_Repeat1	COMPACT_NCP2_Repeat		
cell_PARAMS_POINTER1	B2		
prefix2	B1		The rest fields are all OMITted if prefix2 = 0
cOMPACT_NCP2_Repeat2	COMPACT_NCP2_Repeat		
cELL_PARAMS_POINTER2	B2		
endingOfRepeat	B1		if present always = '0'B indicating the end of the repetition
cOMPACT_NeighParamSet 1	COMPACT_NeighParamSet		
cOMPACT_NeighParamSet 2	COMPACT_NeighParamSet		
cOMPACT_NeighParamSet 3	COMPACT_NeighParamSet		
cOMPACT_NeighParamSet 4	COMPACT_NeighParamSet		
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : CompactNeighCellParamList Encoding Variation : Comments : The type definition is {1 < COMPACT Neighbour Cell params struct>}**0, it is an indeterminate number of repetiton of <COMPACT Neighbour Cell params struct>, so the TTCN definition shall be modified to include more compactNeighbourCellParam if more 1 compactNeighbourCellParam are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefix0	B1		Always "1"
compactNeighCellParam0	CompactNeighCellParam		
endingRepetition	B1		Always "0" to indicate the end of the structure
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : CompactNeighCellParams2List Encoding Variation : Comments : this type definition is {1 < COMPACT Neighbour Cell params 2 struct>}*0 The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more neighbourCellParam if more than 1 neighbourCellParam are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		
compactNeighCellParam2	CompactNeighCellParam2		not present if prefix1 = 0
endingRepetition	B1		not present if prefix1 = 0. If present, always = 0 indicating the end of the repetition
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : ControlChDescr Encoding Variation : Comments : Control channel description 3GPP TS 44.018 clause 10.5.2.11			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information element identifier
mSCRelease	B1		MSC release
att	B1		attach-detach allowed
bS_AG_BLKES_RES	B3		base station access grant blocks reservation
cCCH_CONF	B3		CCCH configuration
spareBits	B3		spare bits
cBQ2	B2		cell bar qualify 2
bS_PA_MFRMS	B3		number of multiframes for paging request
t3212	O1		t3212 value
Detailed Comments :			

Structured Type Definition			
Type Name : DedCH_Info Encoding Variation : Comments : parameters for dedicated channel			
Element Name	Type Definition	Field Encoding	Comments
chMode	ChMode		channel mode see 3GPP TS 44.018 section 10.5.2.6
cipherMode	CipherModeSetting		cipher mode setting see 3GPP TS 44.018 section 10.5.2.9
cipherKey	B64		Initial MS uplink transmission power level. This value is used in the L1 header of SACCH.
powerLevel	B5		
timingAdvance	B7		Initial timing advance. This value is used in the L1 header of SACCH. This field shall be set to the same value as in timingAdvance of G_CL1_CreateCell_REQ.
Detailed Comments : In addition to ciphering algorithm the cipherMode specifies the initial ciphering mode of the physical channel in both transmission and receiving direction. by starting Ciph bit. During ciphering mode setting procedure the ciphering mode of receiving direction can be changed by G_CL1_CipheringControl_REQ.			

Structured Type Definition			
Type Name : DedicatedModeOrTBF Encoding Variation : Comments : Reference : 3GPP TS 44.018 clause 10.5.2.25b			
Element Name	Type Definition	Field Encoding	Comments
iei	B4		information element identifier
spareBit	B1		always = 0
twoMsgAssig	B1		two message assignment
downlink	B1		down link assignement
tBForDedicated	B1		TBF or dedicated mode
Detailed Comments :			

Structured Type Definition			
Type Name : DirectEncoding1 Encoding Variation : Comments : 3GPP TS 44.060 clause 12.8			
Element Name	Type Definition	Field Encoding	Comments
mAIO	B6		MAIO
gPRS_MobileAllocation	GPRSMobileAlloc		
Detailed Comments :			

Structured Type Definition			
Type Name : DirectEncoding2 Encoding Variation : Comments : 3GPP TS 44.060 clause 12.8			
Element Name	Type Definition	Field Encoding	Comments
mAIO	B6		MAIO
hSN	B6		
lengthOfMA_FreqList	B4		
mA_FreqList	OCTETSTRING[3..18]		length of this field is indicated in lengthOfMA_FreqList
Detailed Comments :			

Structured Type Definition			
Type Name : DynamicAllocation Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
extendedAlloc	B1		0 – dynamic allocation; 1 – extended dynamic allocation
uSFGranularity	B1		0 – one block; 1 – four blocks
physicalChId	PhysicalChId		Single PDCH or multislot-configured PDCHs
tN0	BOOLEAN		TRUE – time slot 0 is allocated; FALSE – not allocated
uSF_TN0	B3		USF value for slot 0
tN1	BOOLEAN		TRUE – time slot 1 is allocated; FALSE – not allocated
uSF_TN1	B3		USF value for slot 1
tN2	BOOLEAN		TRUE – time slot 2 is allocated; FALSE – not allocated
uSF_TN2	B3		USF value for slot 2
tN3	BOOLEAN		TRUE – time slot 3 is allocated; FALSE – not allocated
uSF_TN3	B3		USF value for slot 3
tN4	BOOLEAN		TRUE – time slot 4 is allocated; FALSE – not allocated
uSF_TN4	B3		USF value for slot 4
tN5	BOOLEAN		TRUE – time slot 5 is allocated; FALSE – not allocated
uSF_TN5	B3		USF value for slot 5
tN6	BOOLEAN		TRUE – time slot 6 is allocated; FALSE – not allocated
uSF_TN6	B3		USF value for slot 6
tN7	BOOLEAN		TRUE – time slot 7 is allocated; FALSE – not allocated
uSF_TN7	B3		USF value for slot 7
Detailed Comments : The uSF_TNx field is not applicable when tNx = FALSE.			

Structured Type Definition			
Type Name : EDGE_Struct Encoding Variation : Comments : Reference : 3GPP TS 24.008 clause 10.5.1.7			
Element Name	Type Definition	Field Encoding	Comments
modulationCapability	B1		
pwrMask1	B1		
eEDGE_RF_PowerCapability 1	B2		not present if pwrMask1 = 0
pwrMask2	B1		
eEDGE_RF_PowerCapability 2	B2		not present if pwrMask2 = 0
Detailed Comments :			

Structured Type Definition			
Type Name : EGPRS_UplinkAssign Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Type Definition	Field Encoding	Comments
extendedRA	B5		
accessTechMmask	B1		
accessTechRequest	AccessTechRequest		not present if accessTechMask = 0
allocMask	B1		'0' -> multiBlock Allocation; '1' -> dynamic allocation
tFI_Assignment	B5		temporary flow identifier
pOLLING	B1		not present if allocMask = 0
spareBit	B1		not present if allocMask = 0 not present if allocMask = 0.
			set to 0
uSF	B3		not present if allocMask = 0
uSFGranularity	B1		not present if allocMask = 0
p0Mask	B1		not present if allocMask = 0
p0	B4		not present if allocMask = 0 or p0Mask = 0
pR_MODE	B1		not present if allocMask = 0 or p0Mask = 0
eGPRSChannelCodingCom mand	B4		not present if allocMask = 0
tLLI_BlockChannelCodeing	B1		not present if allocMask = 0
bepPeriod2Mask	B1		not present if allocMask = 0
bepPeriod2	B4		not present if allocMask = 0 or bepPeriod2Mask = 0
resegment	B1		not present if allocMask = 0
eGPRSWindowSize	EGPRSWindowSize		not present if allocMask = 0
alphaMask	B1		not present if allocMask = 0
aLPHA	B4		not present if allocMask = 0 or alphaMask = 0
gMMA	B5		not present if allocMask = 0
taIndexMask	B1		not present if allocMask = 0
tIMING_ADVANCE_INDEX	B4		not present if allocMask = 0 or taIndexMask = 0
tbFStartingTimemask	B1		not present if allocMask = 0
tBF_STARTING_TIME	B16		not present if allocMask = 0 or tbFStartingTimemask = 0
alpha1Mask	B1		present if allocMask = 0
			multi block allocation
aLPHA1	B4		not present if allocMask = 1 or alpha1Mask = 0
gMMA1	B5		not present if allocMask = 1
tBF_STARTING_TIME1	B16		not present if allocMask = 1
numberOfRadioBlocks	B2		not present if allocMask = 1
p02Mask	B1		not present if allocMask = 1
p02	B4		not present if allocMask = 1 or p02Mask = 0

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
spareBit2	B1		not present if allocMask = 1 or p02Mask = 0 set to 0
pR_MODE2	B1		not present if allocMask = 1 or p02Mask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : EM1			
Encoding Variation :			
Comments : Reference : 3GPP TS 44.060 clause 11.2.23			
Element Name	Type Definition	Field Encoding	Comments
typeMask	B1		
eXT_REPORTING_TYPE	B2		not present if typeMask = 0
nCC_PERMITTED	B8		present if typeMask = 1 and eXT_REPORTING_TYPE = '01'B
intFreqMask	B1		present if typeMask = 1 and eXT_REPORTING_TYPE = '10'B
iNT_FREQUENCY	B5		present if typeMask = 1 and eXT_REPORTING_TYPE = '10'B and intFreqMask = 1
periodMask	B1		
eXT_REPORTING_PERIOD	B3		not present if periodMask = 0
eXT_FREQUENCY_LIST	EXT_FreqListDescr		
Detailed Comments :			

Structured Type Definition			
Type Name : ENH_ReportingParam Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
reportType	B1		
rEPORTING_RATE	B1		
iNVALID_BSIC_REPORTIN G	B1		
nccPermittedMask	B1		
nCC_PERMITTED	B8		not present if nccPermittedMask = 0
gPRS_MeasParamDesMask	B1		
gPRS_MeasureParamDescr	GPRS_MeasParamDescr		not present if gPRS_MeasParamDescrMas k = 0
gPRS_3G_MeasParamDescr Mmask	B1		
gPRS_3G_MeasParamDescr	GPRS_3G_MeasParamDescr		not present if gPRS_3G_MeasParamDescr Mask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.23			

Structured Type Definition			
Type Name : EXT_FreqList Encoding Variation : Comments : Only 1 repetition has been included. If more are required, the TTCN will be changed			
Element Name	Type Definition	Field Encoding	Comments
sTART_FREQUENCY	B10		
nR_OF_FREQUENCIES	B5		
fREQ_DIFF_LENGTH	B3		
fREQUENCY_DIFF1	BITSTRING[1..8]		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.23			

Structured Type Definition			
Type Name : EXT_FreqListDescr Encoding Variation : Comments : The definition is <EXT Frequency List Description> ::= <EXT Frequency List struct> {1 <EXT Frequency List struct>}**0 The EXT Frequency List may repeat infinite times, so, this TTCN definition shall be modified to include more eXT_FrequencyList if more than 1 eXT_FrequencyList are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
eXT_FreqList	EXT_FreqList		
prefix1	B1		value = '1'B
eXT_FreqList1	EXT_FreqList		
endingRepetition	B1		Value always equal to "0"
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.23			

Structured Type Definition			
Type Name : ExtInfo_NonGPRSCellOptions Encoding Variation : Comments : 44.18 v5.14.0 Table 12.27			
Element Name	Type Definition	Field Encoding	Comments
extLength	B6		
eCSC	B1		
ECSR3G	B1		
Detailed Comments :			

Structured Type Definition			
Type Name : ExtMeasParam Encoding Variation : Comments : Reference : 3GPP TS 44.060 clause 11.2.23			
Element Name	Type Definition	Field Encoding	Comments
extMeasurmentOrder	B2		
eM1	EM1		present if extMeasurementOrder = '01'B
Detailed Comments :			

Structured Type Definition			
Type Name : ExtensionInfo Encoding Variation : Comments : 3GPP TS 44.060 clause 12.24			
Element Name	Type Definition	Field Encoding	Comments
extensionMask	B1		R99 extension
eGPRS_PACKET_CHANNEL_REQUEST	B1		not present if extensionMask = 0
bEP_PERIOD	B4		not present if extensionMask = 0
pFC_FEATURE_MODE	B1		not present if extensionMask = 0
dTM_SUPPORT	B1		not present if extensionMask = 0
bSS_PAGING_COORDINATION	B1		not present if extensionMask = 0
cCN_ACTIVE	B4		not present if extensionMask = 0, R4 extension
nW_EXT_UTBF	B1		not present if extensionMask = 0, R4 extension
spareBit	BITSTRING		not present if extensionMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : FreqInfo Encoding Variation : Comments : Parameters for Description of basic physical channel in frequency domain.			
Element Name	Type Definition	Field Encoding	Comments
h	B1		h='1'B: hopping channel; h='0'B: non-hopping channel
spr	B3		'000'B
spr1	B2		'00'B, if h = '0'B, otherwise OMIT
maio	B6		mobile allocation index offset if h = '1'B, otherwise OMIT
hsn	BITSTRING [6]		hopping sequence number if h = '1'B, otherwise OMIT
arfcn	BITSTRING [10]		absolute RF channel number if h = '0'B, otherwise OMIT
hoppingFreqList	FreqListNoIEI		hopping frequency list if h='1'B, otherwise OMIT. the definition see 3GPP TS 44.018 section 10.5.2.13
Detailed Comments : macLength is the length of mac field = (NF div 8) + 1. NF is the number of frequencies in the cell allocation. mac i : mobile allocation RF channel i, i = 1, 2,..., NF. The mac i bit indicates whether or not the mobile allocation frequency list includes the i'th frequency in the cell allocation frequency list. In the cell allocation frequency list the absolute RF channel numbers are placed in increasing order of ARFCN, except that ARFCN 0, if included in the set, is put in the last position in the list. From i =1, 2,..., NF, for a RF channel belonging to the mobile allocation the mac i bit is coded with a "1"; for a RF channel not belonging to the mobile allocation the mac i bit is coded with a "0". If NF mod 8 <> 0 then bits from NF to 8*macLength must be coded with a "0" in each.			

Structured Type Definition			
Type Name : FreqListNoIEI Encoding Variation : Comments : Frequency list without IEI GSM 44.018, 10.5.2.13			
Element Name	Type Definition	Field Encoding	Comments
length	O1		OCTETSTRING [1]
fl	OCTETSTRING		list of the absolute radio frequency channel numbers
Detailed Comments :			

Structured Type Definition			
Type Name : FreqParam Encoding Variation : Comments : 3GPP TS 44.060 clause 12.8			
Element Name	Type Definition	Field Encoding	Comments
tSC	B3		
encodingMask	B2		
aRFCN	B10		present if encodingMask = '00'B
indirectEncoding	IndirectEncoding		present if encodingMask = '01'B
directEncoding1	DirectEncoding1		present if encodingMask = '10'B
directEncoding2	DirectEncoding2		present if encodingMask = '11'B
Detailed Comments :			

Structured Type Definition			
Type Name : FreqParam_bt Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Type Definition	Field Encoding	Comments
maskBits	B2		always = 00
mAIO	B6		MAIO
mobileAloc	OCTETSTRING		length of this field is (value of lengthOfFreqParam –1), lengthOfFreqParam is defined in IARO
Detailed Comments :			

Structured Type Definition			
Type Name : GPRSMobileAlloc Encoding Variation : Comments : Reference: 3GPP TS 44.060 clause 12.10a			
Element Name	Type Definition	Field Encoding	Comments
hSN	B6		3GPP TS 45.002
rFL_Mask	B1		
rFL_NumberList	RFL_NumberList		not present if rFL_Mask = 0
mA_ARFCN_Mask	B1		
mA_LENGTH	B6		not present if mA_ARFCN_Mask = 1
mA_BITMAP	BITSTRING[1..64]		not present if mA_ARFCN_Mask = 1
aRFCN_IndexMask	B1		not present if mA_ARFCN_Mask = 0
aRFCN_IndexList	ARFCN_IndexList		not present if mA_ARFCN_Mask = 0 or aRFCN_IndexMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : GPRSMobileAllocations Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
mA_NUMBER	B4		
GPRSMobileAllocation	GPRSMobileAlloc		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : GPRS_3G_MeasParamDescr Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
fDD_REP_QUANT_Mask	B1		
fDD_REP_QUANT	B1		not present if fDD_REP_QUANT_Mask = 0
fDD_MULTIRAT_REPORTING	B2		not present if fDD_REP_QUANT_Mask = 0
fDD_ReportingMask	B1		
fDD_REPORTING_OFFSET	B3		not present if fDD_ReportingMask = 0
fDD_REPORTING_THRESHOLD	B3		not present if fDD_ReportingMask = 0
tDD_MultiratReportingMask	B1		
tDD_MULTIRAT_REPORTING	B2		not present if tDD_MultiratReportingMask = 0
tDD_ReportingMask	B1		
tDD_REPORTING_OFFSET	B3		not present if tDD_ReportingMask = 0
tDD_REPORTING_THRESHOLD	B3		not present if tDD_ReportingMask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.23			

Structured Type Definition			
Type Name : GPRS_BSIC_Descr			
Encoding Variation :			
Comments : The CSN.1 definition for this type is <GPRS BSIC Description struct> ::= { 0 | 1 <BA_Index_Start_BSIC : bit(5) > } <BSIC : bit (6) > <Number_Remaining_BSIC : bir (7) > { < Frequency_Scrolling : bit > <BSIC : bit (6) > } ** (val(Number_Remaining_BSIC)), the number of repetitions of "Frequency_Scrolling" is determined by "Number_Remaining_BSIC", the maximum repetition is 127. So the TTCN definition shall be modified to include more "Frequency_Scrolling" if more than 8 "Frequency_Scrolling" are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
indexMask	B1		not present if indexMask = 0
bA_IndexStart_BSIC	B5		
bSIC	B6		
numberRemainingBSIC	B7		
frequencfScrolling1	B1		
bSIC1	B6		
frequencfScrolling2	B1		
bSIC2	B6		
frequencfScrolling3	B1		
bSIC3	B6		
frequencfScrolling4	B1		
bSIC4	B6		
frequencfScrolling5	B1		
bSIC5	B6		
frequencfScrolling6	B1		
bSIC6	B6		
frequencfScrolling7	B1		
bSIC7	B6		
frequencfScrolling8	B1		
bSIC8	B6		
Detailed Comments : Reference : 3GPP TS 44.018, 10.5.2.33b			

Structured Type Definition			
Type Name : GPRS_CellOptions Encoding Variation : Comments : 3GPP TS 44.060 clause 12.24			
Element Name	Type Definition	Field Encoding	Comments
nMO	B2		network mode of operation
t3168	B3		
t3192	B3		
dRX_TIMER_MAX	B3		
aCCESS_BURST_TYPE	B1		
cONTROL_ACK_TYPE	B1		
bS_CV_MAX	B4		
pAN_Mask	B1		
pAN_DEC	B3		not present if pAN_Mask = 0
pAN_INC	B3		not present if pAN_Mask = 0
pAN_MAX	B3		not present if pAN_Mask = 0
optionalExtMask	B1		
extensionLength	B6		not present if optionalExtMask =0
extensionInfo	ExtensionInfo		not present if optionalExtMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : GPRS_MeasParamDescr Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
multibandReportingMask	B1		
multibandReporting	B2		not present if multibandReportingMask = 0
ServingBandReportingMask	B1		not present if servingBandReportingMask = 0
servingBandReporting	B2		not present if servingBandReportingMask = 0
sCALE_ORD_Mask	B1		
sCALE_ORD	B2		not present if sCALE_ORD_Mask = 0
mask900	B1		
rEPORTING_OFFSET_900	B3		not present if mask900 = 0
rEPORTING_THRESHOLD_900	B3		not present if mask900 = 0
mask1800	B1		
rEPORTING_OFFSET_1800	B3		not present if mask1800 = 0
rEPORTING_THRESHOLD_1800	B3		not present if mask1800 = 0
mask400	B1		
rEPORTING_OFFSET_400	B3		not present if mask400 = 0
rEPORTING_THRESHOLD_400	B3		not present if mask400 = 0
mask1900	B1		
rEPORTING_OFFSET_1900	B3		not present if mask1900 = 0
rEPORTING_THRESHOLD_1900	B3		not present if mask1900 = 0
mask850	B1		
rEPORTING_OFFSET_850	B3		not present if mask850 = 0
rEPORTING_THRESHOLD_850	B3		not present if mask850 = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.23			

Structured Type Definition			
Type Name : GPRS_MobileAllocationLists Encoding Variation : Comments : The definition in CSN.1 is {1 < GPRS Mobile Allocations struct >}**0, so the prefix bit and following structure may repeat infinite times, this struct definition shall be changed if more than 5 GPRSMobileAllocation are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.19			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		always = 1
gPRS_MobileAllocation1	GPRSMobileAllocations		
prefix2	B1		always = 1
gPRS_MobileAllocation2	GPRSMobileAllocations		
prefix3	B1		always = 1
gPRS_MobileAllocation3	GPRSMobileAllocations		
prefix4	B1		always = 1
gPRS_MobileAllocation4	GPRSMobileAllocations		
prefix5	B1		always = 1
gPRS_MobileAllocation5	GPRSMobileAllocations		
endingRepetiton	B1		Its value is always zero and indicating the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : GPRS_PowerControlParam Encoding Variation : Comments : 3GPP TS 44.060 clause 11.2.25			
Element Name	Type Definition	Field Encoding	Comments
aLPHA	B4		
t_AVG_W	B5		
t_AVG_T	B5		
pC_MEAS_CHAN	B1		0---BCCH 1---PDCH
n_AVG_I	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : GPRS_REP_PRIORITY_Descr Encoding Variation : Comments : GPRS report priority description the number of repetition of the rEP_PRIORITY is determined by value of numberCells, the maximum repetition is 127. the TTCN definition defines 8 repetitions, it shall be modified to include more repetitions if more 8 rEP_PRIORITY are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
numberCells	B7		
rEP_PRIORITY1	B1		
rEP_PRIORITY2	B1		
rEP_PRIORITY3	B1		
rEP_PRIORITY4	B1		
rEP_PRIORITY5	B1		
rEP_PRIORITY6	B1		
rEP_PRIORITY7	B1		
rEP_PRIORITY8	B1		
Detailed Comments : 3GPP TS 44.018 clause 10.5.2.33b			

Structured Type Definition			
Type Name : GPRS_RTD12_List Encoding Variation : Comments : the CSN.1 definition for RTD12_List in GPRS Real Time Difference Description is an indeterminate repetition, so the TTCN definition shall be modified to include more rTD if more than 5 rTD are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		always = 0
rTD1	B12		
prefix2	B1		always = 0
rTD2	B12		
prefix3	B1		always = 0
rTD3	B12		
prefix4	B1		always = 0
rTD4	B12		
prefix5	B1		always = 0
rTD5	B12		
endingRepetition	B1		always = '1'B indicating the end of the structure
Detailed Comments : 3GPP TS 44.018, 10.5.2.33b			

Structured Type Definition			
Type Name : GPRS_RTD6_List Encoding Variation : Comments : the CSN.1 definition for RTD6_List in GPRS Real Time Difference Description is an indeterminate repetition, so the TTCN definition shall be modified to include more rTD if more than 5 rTD are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefixBit1	B1		always = 0
rTD1	B6		
prefixBit2	B1		always = 0
rTD2	B6		
prefixBit3	B1		always = 0
rTD3	B6		
prefixBit4	B1		always = 0
rTD4	B6		
prefixBit5	B1		always = 0
rTD5	B6		
endingBit	B1		always = '1'B indicating the end of the structure
Detailed Comments : 3GPP TS 44.018, 10.5.2.33b			

Structured Type Definition			
Type Name : GPRS_RealTimeDiffDescr Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
rtdMask1	B1		
baIndexMask1	B1		not present if rtdMask1 = 0
baIndexStartRTD1	B5		not present if rtdMask1 = 0 or baIndexMask1 = 0
rTD6_List	RTD6_List_List		not present if rtdMask1 = 0
rtdMask2	B1		
baIndexMask2	B1		not present if rtdMask2 = 0
baIndexStartRTD2	B5		not present if rtdMask2 = 0 or baIndexMask2 = 0
rTD12_List	RTD12_List_List		not present if rtdMask2 = 0
Detailed Comments : 3GPP TS 44.018, 10.5.2.33b			

Structured Type Definition			
Type Name : GPRS_Resumption Encoding Variation : Comments : GPRS resumption 3GPP TS 44.018 clause 10.5.2.14c			
Element Name	Type Definition	Field Encoding	Comments
iei	B4		
spareBits	B3		
ack	B1		
Detailed Comments :			

Structured Type Definition			
Type Name : G_CellConfigInfo Encoding Variation : Comments : This structure contains relevant information describing a GERAN cell configuration as needed for basic test Steps.			
Element Name	Type Definition	Field Encoding	Comments
bCCH_Freq	BITSTRING [10]		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping Serving cell: 20 for GSM 900 (alternative 40 or 60); 590 for DCS 1800 (alternative 690 or 830); 263 for GSM 450 (alternative 274 or 276); 310 for GSM 480 (alternative 321 or 323)
tCH_Freq	FreqInfo		frequency parameters for traffic channel
sDCCH8_Freq	FreqInfo		frequency parameters for stand alone dedicated control channel
downlinkPowerLevel	INTEGER		Downlink transmission power level in dBpVemf(). Default = 63
cellIdentity	O2		cell identity, 3GPP TS 24.008 clause 10.5.1.1. Default = '0001'O
mcc	H3		mobile country code, 3 digits. 3GPP TS 24.008 clause 10.5.1.3. Default = 001 (decimal)
mnc	H3		mobile network code, 2 BCD digits. 3GPP TS 24.008 clause 10.5.1.3. Default = 01 (desimal)
lac	O2		location area code. 3GPP TS 24.008 clause 10.5.1.3. Default = '0001'O
ncc	B3		PLMN colour code, 3GPP TS 23.003 clause 4.3.2. Default = '001'B
bcc	B3		BS colour code, 3GPP TS 23.003 clause 4.3.2. Default = '101'B
dTX	B2		Uplink discontinuous transmission indecation, 3GPP TS 44.018 clause 10.5.2.3. Dfault = MS must not use
dtx8	B1		Uplink discontinuous transmission indecation, 3GPP TS 44.018 clause 10.5.2.3a.

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
dtX65	B2		Uplink discontinuous transmission indication, 3GPP TS 44.018 clause 10.5.2.3a.
attFlag	B1		IMSI attach/detach allowed, Default = MS shall not allow
cCCH_CONF	B3		CCCH configuration, 3GPP TS 44.018 clause 10.5.2.11. Default = 1 basic physical channel for CCCH combined with SDCCH
bS_AG_BLKES_RES	B3		3GPP TS 44.018 clause 10.5.2.11. Default = 0 block reserved
bS_PA_MFRMS	B3		3GPP TS 44.018 clause 10.5.2.11. Default = 5 paging subgroups
splitOnCCCH	B1		3GPP TS 24.008 clause 10.5.5.6. 0 = no split pg cycle on CCCH. value taken from PICS.
cell_BAR_ACCESS	B1		cell barred for access, 3GPP TS 44.018 clause 10.5.2.29. Default = not barred
cellBarQualify2	B2		cell bar qualify 2. 3GPP TS 44.018 clause 10.5.2.11
callReestab	B1		Call re-establishment allowed, 3GPP TS 44.018 clause 10.5.2.29.
timingAdvance	O1		timing advance value, 3GPP TS 44.018 clause 10.5.2.40
tSC	B3		training sequence code for dedicated channels. TSC of broadcast channel and common channel shall be equal to BCC.
cellAllocation	CellChDescr		cell allocation, 3GPP TS 44.018 clause 10.5.2.1b with IEI omitted
neighBCCHFreqList	NeighCellDescr		neighbour cell BCCH/CCCH ARFCN's, 3GPP TS 44.018 clause 10.5.2.22 with IEI omitted.
extNeighBCCHFreqList	NeighCellDescr		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis, 3GPP TS 44.018 clause 10.5.2.22 with IEI omitted.
extNeighBCCHFreqList2ter	NeighCellDescr2		extended neighbour cell BCCH/CCCH ARFCN's in sysinfoType2ter, 3GPP TS 44.018 clause 10.5.2.22a with IEI omitted.
cipherKey	B64		cipher key
cipherMode	CipherModeSetting		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
emergencyCall	B1		Emergency call allowed, 3GPP TS 44.018 clause 10.5.2.29. Default = allowed
accessControlClass2	B5		Access control class 11..15, 3GPP TS 44.018 clause 10.5.2.29.
accessControlClass1	B10		Access control class 0..9, 3GPP TS 44.018 clause 10.5.2.29.
radioLinkTimeout	B4		RADIO-LINK-TIMEOUT, 3GPP TS 44.018 clause 10.5.2.3. Default = 8
t3212	O1		T3212 value, Default = infinite
maxRetrans	B2		Maximum number of retransmission, 3GPP TS 44.018 clause 10.5.2.29. Default = 1
txInteger	B4		Number of slots to spread transmission, 3GPP TS 44.018 clause 10.5.2.29. Default = 5
cELL_RESELECT_HYSTERESIS	B3		3GPP TS 44.018 clause 10.5.2.4 and 3GPP TS 45.008. Default = 12 dB,
mS_TXPWR_MAX_CCH	B5		3GPP TS 44.018 clause 10.5.2.4 and 3GPP TS 45.008. Default = minimum level
rXLEV_ACCESS_MIN	B6		minimum received signal level at MS, 3GPP TS 44.018 clause 10.5.2.4. Default = minimum
nECI	B1		New establishment causes supported, 3GPP TS 44.018 clause 10.5.2.4. Default = not supported
aCS	B1		Additional reselection parameter indication, 3GPP TS 44.018 clause 10.5.2.4. Default = no additional parameters in SI 7 and 8.
bandIndicator	B1		ARFCN band. 0= DCS1800 band; 1= PCS1900 band. This value shall be consistent with bandIndicatorAsn1
bandIndicatorAsn1	Frequency_Band		ARFCN band using the asn.1 type. This value shall be consistent with bandIndicator
nccPermitted	O1		NCC permitted. 3GPP TS 44.018 clause 10.5.2.27
dN_Ind	B1		dynamic ARFCN mapping indicator. 3GPP TS 44.018 clause 10.5.2.3

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
pwrC	B1		power control indication, default = '0' PWRC is not set.
cellConfiguration	CellConfiguration		current configuration of the cell, used to control the behaviour of postamble
Detailed Comments :			

Structured Type Definition			
Type Name : GenCellSel			
Encoding Variation :			
Comments :			
Element Name	Type Definition	Field Encoding	Comments
gPRS_CELL_RESELECT_HYSTERESIS	B3		not present if t_ReselMask = 0
c31_HYST	B1		
c32_QUAL	B1		
rANDOM_ACCESS_RETRY	B1		
t_ReselMask	B1		
t_RESEL	B3		
rA_ReselectHysteresisMask	B1		not present if rA_ReselectHysteresisMask = 0
rA_RESELECT_HYTERESIS	B3		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : GlobalPowerControlParameters			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 12.9			
Element Name	Type Definition	Field Encoding	Comments
aLPHA	B4		
t_AVG_W	B5		
t_AVG_T	B5		
pb	B4		
pC_MEAS_CHAN	B1		
iNT_MEAS_CHANNEL_LIS	B1		
T_AVAIL			
n_AVG_I	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : GroupChannelDescr Encoding Variation : Comments : Group Channel description 3GPP TS 44.018 clause 10.5.2.14b			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		
cht_schn	B5		channel type and TDMA offset
tn	B3		timeslot number
tsc	B3		training sequence code
hch	B1		hch = 1 indicating hopping channel
maio	B6		mobile allocation index offset – hopping
hsn	B6		hopping sequence number – hopping
spr	B2		'00'B – non hopping
arfcn	B10		absolute RF channel number – non hopping
mac_8n	B8		mac64 – mac57
mac_7n	B8		mac56 – mac49
mac_6n	B8		mac48 – mac41
mac_5n	B8		mac40 – mac33
mac_4n	B8		mac32 – mac25
mac_3n	B8		mac24 – mac17
mac_2n	B8		mac16 – mac9
mac_1n	B8		mac8 – mac1
Detailed Comments :			

Structured Type Definition			
Type Name : GroupCipherKey Encoding Variation : Comments : Group cipher key number 3GPP TS 24.008 clause 10.5.1.10			
Element Name	Type Definition	Field Encoding	Comments
iei	B4		
keyNumber	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : HCS Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
priorityClass	B3		
hCS_THR	B5		
Detailed Comments : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : HoppingPCCCHCarrierList Encoding Variation : Comments : The definition of this type is <Hopping PCCCH Carriers Lists struct> ::= {1<Hopping PCCCH Carriers struct>}**0. The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more hoppingPCCCHCarriers if more 3 hoppingPCCCHCarriers are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefixBit1	B1		
hoppingPCCCHCarriers1	HoppingPCCCHCarriers		not present if prefixBit1 = 0
prefixBit2	B1		
hoppingPCCCHCarriers2	HoppingPCCCHCarriers		not present if prefixBit2 = 0
prefixBit3	B1		
hoppingPCCCHCarriers3	HoppingPCCCHCarriers		not present if prefixBit3 = 0
endingBit	B1		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : HoppingPCCCHCarriers Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
mAIO	B6		
timeslotAllocation	B8		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : IARO			
Encoding Variation :			
Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Type Definition	Field Encoding	Comments
constructMask	B2	LowHigh_Rule3	present if constructMask = LL present if constructMask = LH present if reservMask1 = 0 not present if reservMask2 = 1 or reservMask1 = 1 or constructMask <> LH present if constructMask = HL frequency parameters before time not present if lengthOfFreqParam = 0 present if constructMask = HL present if constructMask = HH not present if mask1 = 1 or mask2 = 1 or constructMask <> HH not present if mask1 = 1 or mask2 = 0 or constructMask <> HH present if mask1 = 1 and constructMask = HH
compressInterRATHO	B1	LowHigh_Rule3	
reservMask1	B1		
reservMask2	B1		
eGPRS_UplinkAssign	EGPRS_UplinkAssign		
lengthOfFreqParam	B6		
freqParam_bt	FreqParam_bt		
compressInterRATHO1	B1	LowHigh_Rule3	
mask1	B1		
mask2	B1		
packetUplinkAssign	PacketUplinkAssign		
packetDownlinkAssign	PacketDownlinkAssign		
secondPacketAssign	SecondPacketAssign		
Detailed Comments :			

Structured Type Definition			
Type Name : IndirectEncoding			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 12.8			
Element Name	Type Definition	Field Encoding	Comments
mAIO	B6		MAIO
mA_NUMBER	B4		MA_NUMBER
changeMark1Mask	B1		not present if changeMark1Mask = 0
mA_ChangeMark1	B2		
changeMark2Mask	B1		
mA_ChangeMark2	B2		
Detailed Comments :			

Structured Type Definition			
Type Name : LSA_ID_Info Encoding Variation : Comments : The definition is < LSA ID Information struct> ::= {1 {0 <LSA_ID : bit(24)> | 1 <ShortLSA_ID : (10)>}}**0, so the TTCN definition shall be modified to include more ISA_ID if the constraint requires more than 5 ISA_ID. Reference : 3GPP TS 44.060 clause 12.28			
Element Name	Type Definition	Field Encoding	Comments
prefixBit1	B1		value always equal to "1"
ISA_ID_Mask1	B1		
ISA_ID1	B24		not present if ISA_ID_Mask1 = 1
ShortLSA_ID1	B10		not present if ISA_ID_Mask1 = 0
prefixBit2	B1		value always equal to "1"
ISA_ID_Mask2	B1		
ISA_ID2	B24		not present if ISA_ID_Mask2 = 1
ShortLSA_ID2	B10		not present if ISA_ID_Mask2 = 0
prefixBit3	B1		value always equal to "1"
ISA_ID_Mask3	B1		
ISA_ID3	B24		not present if ISA_ID_Mask3 = 1
ShortLSA_ID3	B10		not present if ISA_ID_Mask3 = 0
prefixBit4	B1		value always equal to "1"
ISA_ID_Mask4	B1		
ISA_ID4	B24		not present if ISA_ID_Mask4 = 1
ShortLSA_ID4	B10		not present if ISA_ID_Mask4 = 0
prefixBit5	B1		value always equal to "1"
ISA_ID_Mask5	B1		
ISA_ID5	B24		not present if ISA_ID_Mask5 = 1
ShortLSA_ID5	B10		not present if ISA_ID_Mask5 = 0
endBit	B1		value always equal to "0" to indicate the end of the structure
Detailed Comments :			

Structured Type Definition			
Type Name : LSA_Param Encoding Variation : Comments : Reference: 3GPP TS 44.060 clause 12.28			
Element Name	Type Definition	Field Encoding	Comments
nR_OF_FREQ_OR_CELLS	B5		
ISA_ID_Info_1	LSA_ID_Info		
ISA_ID_Info_2	LSA_ID_Info		
ISA_ID_Info_3	LSA_ID_Info		
ISA_ID_Info_4	LSA_ID_Info		
ISA_ID_Info_5	LSA_ID_Info		
Detailed Comments : More LSA_ID_Info shall be added into this type definition if value of nR_OF_FREQ_OR_CELLS is greater than 5.			

Structured Type Definition			
Type Name : MSCLSMK3 Encoding Variation : Comments : Mobile station classmark 3 3GPP TS 24.008 clause 10.5.1.7			
Element Name	Type Definition	Field Encoding	Comments
iei	B8		'00100000'B
iel	O1		OCTETSTRING [1]
spareBit	B1		spare bit
multibandSupported	B3		
a5_7	B1		a5/7 algorithm supported
a5_6	B1		a5/6 algorithm supported
a5_5	B1		a5/5 algorithm supported
a5_4	B1		a5/4 algorithm supported
associatedRadioCapabilty2	B4		present if multibandSupported = 101 or 110
spareBits1	B4		present if multibandSupported = 001 or 010 or 100
associatedRadioCapabilty1	B4		present if multibandSupported = 001 or 010 or 100 or 101 or 110
maskBit1	B1		
rGSM_RadioCapability	B3		R-GSM band associated radio capability. not present if maskBit1 = 0
maskBit2	B1		
multiSlotClass	B5		multi slot class. not present if multiSlotClass = 0
uCS2Treatment	B1		
extMeasurementCapability	B1		extended measurement capability
maskBit3	B1		
msMeasurementCapability	MS_MeasCapability		MS measurement capability not present if maskBit3 = 0
maskBit4	B1		
msPositioningMethod	B5		MS positioning method capability not present if maskBit4 = 0
maskBit5	B1		
eDGE_MultiSlot	B5		EDGE multi slot capability not present if maskBit5 = 0
maskBit6	B1		
eDGE_Struct	EDGE_Struct		EDGE struct not present if maskBit6 = 0
maskBit7	B1		
gSM400BandsSupported	B2		not present if maskBit7 = 0
gSM400AssociatedRadioCa pability	B4		not present if gSM400BandsSupported = 00 or maskBit7 = 0
maskBit8	B1		

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
gSM850AssociatedRadioCa pability	B4		not present if maskBit8 = 0
maskBit9	B1		
pCS1900AssociatedRadioC apability	B4		not present if maskBit9 = 0
uMTS_FDD_RAT_Capability	B1		
uMTS384TDD_RAT_Capabili ty	B1		
cDMA2000_RAT_Capability	B1		
maskBit10	B1		
dTM_GPRS_MultiSlotSubcla ss	B2		not present if maskBit10 = 0
singleSlotDTM	B1		not present if maskBit10 = 0
maskBit11	B1		not present if maskBit10 = 0
dTM_EGPRS_MultiSlorSubc lass	B2		not present if maskBit10 = 0 or maskBit11 = 0
maskBit12	B1		
singleBandSupport	B4		not present if maskBit12 = 0
maskBit13	B1		
gSM700AssociatedRadioCa pability	B4		not present if maskBit13 = 0
uMTS128TDD_RAT_Capabili ty	B1		
gERANFeatPack1	B1		
mask14	B1		
extDTM_GPRS_MultiSlotSu bclass	B2		not present if maskBit14 = 0
etxDTM_EGPRS_MultiSlotS ubclass	B2		not present if maskBit14 = 0
mask15	B1		
highMultislotCap	B2		not present if mask15 = 0
mask16	B1		
gERANluModeLength	B4		not present if maskBit16 = 0
gERANluModeSpareBits	BITSTRING[0..15]		not present if maskBit16 = 0
gERANFeatPack2	B1		
gMSKMultislotPowerProfile	B2		
pSKMultislotPowerProfile	B2		
spareBits2	BITSTRING		
Detailed Comments : The information element has 14 octets maximum length			

Structured Type Definition			
Type Name : MS_MeasCapability			
Encoding Variation :			
Comments : Reference : 3GPP TS 24.008 clause 10.5.1.7			
Element Name	Type Definition	Field Encoding	Comments
sMS_VALUE	B4		
sM_VALUE	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : MeasParamDescr			
Encoding Variation :			
Comments : MEASUREMENT PARAMETERSI description in SI2quater rest octets			
Element Name	Type Definition	Field Encoding	Comments
rEPORT_TYPE	B1		
sERVING_BAND_REPORTI NG	B2		
Detailed Comments :			

Structured Type Definition			
Type Name : MeasResults Encoding Variation : Comments : measurement results 3GPP TS 44.018 clause 10.5.2.20			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information element identifier
ba_used	B1		bcch allocation used
dtx_used	B1		dtx was used
rxlev_fsc	RxLevel		received signal strength on the full serving cell
ba3G_used	B1		3G bcch allocation used
meas_valid	B1		measurement results valid
rxlev_ssc	RxLevel		received signal strength on a subset of the serving cell
spareBit1	B1		spare bit
rxqual_fsc	B3		received signal quality on the full serving cell
rxqual_ssc	B3		received signal quality on a subset of the serving cell
no_neighCells	B3		number of neighbouring cells (nc)
rxlev_nc1	RxLevel		received signal strength on nc1
bcchfrq_nc1	BCCHFreq		bcch frequency position of nc1
bsic_nc1	B6		base station identity code of nc1
rxlev_nc2	RxLevel		received signal strength on nc2
bcchfrq_nc2	BCCHFreq		bcch frequency position of nc2
bsic_nc2	B6		base station identity code of nc2
rxlev_nc3	RxLevel		received signal strength on nc3
bcchfrq_nc3	BCCHFreq		bcch frequency position of nc3
bsic_nc3	B6		base station identity code of nc3
rxlev_nc4	RxLevel		received signal strength on nc4
bcchfrq_nc4	BCCHFreq		bcch frequency position of nc4
bsic_nc4	B6		base station identity code of nc4
rxlev_nc5	RxLevel		received signal strength on nc5
bcchfrq_nc5	BCCHFreq		bcch frequency position of nc5
bsic_nc5	B6		base station identity code nc5
rxlev_nc6	RxLevel		received signal strength on nc6

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
bcchfrq_nc6	BCCHFReq		bcch frequency position of nc6
bsic_nc6	B6		base station identity code of nc6
Detailed Comments : The info element has a fixed length of 16 octets exclude IEI.			

Structured Type Definition			
Type Name : MobileAlloc Encoding Variation : Comments : Mobile allocation 3GPP TS 44.018 clause 10.5.2.21			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01110010'B
iel	O1		'00'O for non hopping
mac_8n	B8		mac64 – mac57
mac_7n	B8		mac56 – mac49
mac_6n	B8		mac48 – mac41
mac_5n	B8		mac40 – mac33
mac_4n	B8		mac32 – mac25
mac_3n	B8		mac24 – mac17
mac_2n	B8		mac16 – mac9
mac_1n	B8		mac8 – mac1
Detailed Comments :			

Structured Type Definition			
Type Name : NCP2 Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
prefixBit	B1		always = '1'B
sTART_FREQUENCY	B10		
nCP2_Property	NCP2_Property		
nR_OF_REMAINING_CELL S	B4		value shall not be equal to 0, maximum number of repetition of fields fFREQUENCY_DIFF and nCP2_Property is 15
fREQ_DIFF_LENGTH	B3		
fFREQUENCY_DIFF1	BITSTRING[1..8]		
nCP2_Property1	NCP2_Property		
fFREQUENCY_DIFF2	BITSTRING[1..8]		
nCP2_Property2	NCP2_Property		
fFREQUENCY_DIFF3	BITSTRING[1..8]		
nCP2_Property3	NCP2_Property		
Detailed Comments : 3GPP TS 44.060 clause 11.2.21 More fields fFREQUENCY_DIFF and nCP2_Property shall be added into this type definition if more than 4 neighbour cells are required.			

Structured Type Definition			
Type Name : NCP2_Property Encoding Variation : Comments : 3GPP TS 44.060 clause 11.2.21			
Element Name	Type Definition	Field Encoding	Comments
sAME_RA_AS_SERVING_ CELL	B1		
cELL_BAR_ACCESS_2	B1		
bCC	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : NCP2_Repeat Encoding Variation : Comments : if more than 8 cells are needed, the TTCN definition shall be modified			
Element Name	Type Definition	Field Encoding	Comments
nCP2_1	NCP2		
nCP2_2	NCP2		
breakRecursion	B4		always = 0000
endingBit	B1		always = 0
Detailed Comments : 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : NC_MeasParams Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.33b			
Element Name	Type Definition	Field Encoding	Comments
nETWORK_CONTROL_ORDER	B2		
mask	B1		
nC_NON_DRX_PERIOD	B3		not present if mask = 0
nC_REPORTING_PERIOD_I	B3		not present if mask = 0
nC_Reporting_PERIOD_T	B3		not present if mask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : NC_MeasRpt Encoding Variation : Comments : ref: 44.060 v5a0 clause 11.2.9d Only 2 repetitions have only been implemented. If more are required, the definition will be changed			
Element Name	Type Definition	Field Encoding	Comments
nC_Mode	B1		
mask	B1		
baUsed	B1		not present if mask = 1
ba3GUsed	B1		not present if mask = 1
psi3ChangeMark	B2		not present if mask = 0
pmoUsed	B1		
bsicSeen	B1		
scale	B1		
servMask	B1		
servingCellData	PCCOServingCellData		not present if servMask = 0
rptdInvalidBSIC	RptdInvalidBSICInfo		
rptMask	B1		
rptQuantityMask1	B1		not present if rptMask = 0
rptQuantity1	B6		not present if rptMask or rptQuantity1Mask = 0
rptQuantityMask2	B1		not present if rptMask = 0
rptQuantity2	B6		not present if rptMask or rptQuantity2Mask = 0
endingRepetition	B1		always = '0'B indicating the end of the structure
Detailed Comments :			

Structured Type Definition			
Type Name : NeighCellDescr Encoding Variation : Comments : Neighbour cells description 3GPP TS 44.018 clause 10.5.2.22			
Element Name	Type Definition	Field Encoding	Comments
rfl2	B2		bits 128–127
extind	B1		extension indication
baind	B1		bcch allocation sequence number indication
rfl4	B4		bits 124–121
rfl	O15		bits 120–0
Detailed Comments :			

Structured Type Definition			
Type Name : NeighCellDescr2 Encoding Variation : Comments : Neighbour cells description2 3GPP TS 44.018 clause 10.5.2.22a			
Element Name	Type Definition	Field Encoding	Comments
b128	B1		Bit 128, format-ID
mbrpt	B2		Multiband reporting
baind	B1		bcch allocation sequence number indication
b121_124	B4		Bit 124 – 121, format ID next
rfl	O15		remaining reference frequency list
Detailed Comments :			

Structured Type Definition			
Type Name : NeighCellDescr3G			
Encoding Variation :			
Comments : 3G neighbour cell description			
Element Name	Type Definition	Field Encoding	Comments
indexMask	B1		not present if indexMask = 0
indexStart3G	B7		
absoluteIndexMask	B1		not present if absoluteIndexMask = 0
absoluteIndexStartEMR	B7		
fDDMask	B1		not present if fDDMask = 0
uTRAN_FDD_Description	UTRAN_FDD_Descr		
tDDMask	B1		not present if tDDMask = 0
uTRAN_TDD_Description	UTRAN_TDD_Descr		
Detailed Comments : 3GPP TS 44.060 clause 11.2.21b			

Structured Type Definition			
Type Name : NeighCellParam Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
sTART_FREQUENCY	B10		
cellSelectionParams	CellSelection		
nR_OF_REMAINING_CELLS	B4		
fREQ_DIFF_LENGTH	B3		
fFREQUENCY_DIFF1	BITSTRING[1..8]		the length of this field is 1 + Val(fFREQUENCY_DIFF_LENGTH)
cellSelectionParams1	CellSelection		
fFREQUENCY_DIFF2	BITSTRING[1..8]		the length of this field is 1 + Val(fFREQUENCY_DIFF_LENGTH)
cellSelectionParams2	CellSelection		
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.20. More fFREQUENCY_DIFF + cellSelectionParams shall be added into this type definition if nR_OF_REMAINING_CELLS is greater than 2. In a constraint the value of nR_OF_REMAINING_CELLS indicates the number of repetitions of fFREQUENCY_DIFF and cellSelectionParams			

Structured Type Definition			
Type Name : NeighCellParam2 Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
messageEscape	B2		always = '00'B
prefix1	B1		value = 1 if present
nCP2_Repeat1	NCP2_Repeat		
cELL_PARAMS_POINTER1	B2		
prefix2	B1		value = 1 if present
nCP2_Repeat2	NCP2_Repeat		
cELL_PARAMS_POINTER2	B2		
endingBit1	B1		always = '0'B indicating the end of the recursion
neighParamSet1	NeighParamSet		
neighParamSet2	NeighParamSet		
neighParamSet3	NeighParamSet		
neighParamSet4	NeighParamSet		
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.21 only two repetitions are defined for the recursion of nCP2_Repeat + cELL_PARAMS_POINTER. This type definition shall be modified if more repetition is needed			

Structured Type Definition			
Type Name : NeighCellParams2List Encoding Variation : Comments : this type definition is {1 < Neighbour Cell params 2 struct>}**0 The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more neighbourCellParam if more than 1 neighbourCellParam are required in the constaint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		value = 1 if present
neighCellParam2_1	NeighCellParam2		
endingRepetition	B1		always = 0 indicating the end of the structure
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : NeighCellParamsList Encoding Variation : Comments : this type definition is {1 < Neighbour Cell params struct>}**0 The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more neighbourCellParam if more than 1 neighbourCellParam are required in the constaint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		always = 1 indicating the start of Neighbour Cell params struct
neighCellParam1	NeighCellParam		
endingBit	B1		always = 0 indicating the end of the structure
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : NeighParamSet Encoding Variation : Comments : Neighbour parameters set structure			
Element Name	Type Definition	Field Encoding	Comments
nccMask	B1		
nCC	B3		not present if nccMask = 0
eXC_ACC	B1		
rxlevMask	B1		
gPRS_RXLEV_ACCESS_M IN	B6		not present if rxlevMask = 0
txpwrMask	B1		
gPRS_MS_TXPWR_MAX_C CH	B5		not present if txpwrMask = 0
priorityMask	B1		
pRORITY_CLASS	B3		not present if priorityMask = 0
hcsMask	B1		
hCS_THR	B5		not present if hcsMask = 0
pbcchLocMask	B1		
sI13PBCCH_Location	SI13PBCCH_Location		not present if pbcchLocMask = 0
gPRS_TEMPORARY_OFFS ET	B3		
gPRS_PENALTY_TIME	B5		
gPRS_RESELECT_OFFSET	B5		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.21			

Structured Type Definition			
Type Name : NonGPRSCellOptions			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 12.27			
Element Name	Type Definition	Field Encoding	Comments
aTT	B1		not present if t3212Mask = 0
t3212Mask	B1		
t3212	B8		
nECI	B1		
pWRC	B1		
dTX	B2		
rADIO_LINK_TIMEOUT	B4		
bS_AG_BLKES_RES	B3		
cCCH_CONF	B3		
bS_PA_MFRMS	B3		
mAX_RETRANS	B2		
tX_INTEGER	B4		
eC	B1		
mS_TXPWR_MAX_CCCH	B5		
extensionBitsMask	B1		
extensionBits	ExtInfo_NonGPRSCellOptions		not present if extensionBitsMask = 0. 3GPP TS 44.060 clause 12.26
Detailed Comments :			

Structured Type Definition			
Type Name : NonHoppingPCCCHCarrier Encoding Variation : Comments : 3GPP TS 44.060 clause 11.2.19			
Element Name	Type Definition	Field Encoding	Comments
aRFCN	B10		
timeslotAllocation	B8		
Detailed Comments :			

Structured Type Definition			
Type Name : NonHoppingPCCCHCarrierList Encoding Variation : Comments : The definition of this type is <Non-hopping PCCCH Carriers Lists struct> ::= {1 <Non-Hopping PCCCH Carriers struct>}*0. The prefix bit and following structure may repeat infinite times, so this TTCN definition may shall be modified to include more nonHoppingPCCCHCarriers if more than 1 nonHoppingPCCCHCarriers are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		value = 1 if present
nonHoppingPCCCHCarriers1	NonHoppingPCCCHCarrier		
endingRepetition	B1		the value of this bit is always zero to indicate the end of the structure
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : NumberOfIdleBlocks Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
nIB_CCCH0_Mask	B1		
nIB_CCCH0	B4		not present if nIB_CCCH0_Mask = 0
nIB_CCCH1_Mask	B1		
nIB_CCCH1	B4		not present if nIB_CCCH1_Mask = 0
nIB_CCCH2_Mask	B1		
nIB_CCCH2	B4		not present if nIB_CCCH2_Mask = 0
nIB_CCCH3_Mask	B1		
nIB_CCCH3	B4		not present if nIB_CCCH3_Mask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : PBCCH_Descr Encoding Variation : Comments : used in SI13 rest octets			
Element Name	Type Definition	Field Encoding	Comments
pb	B4		not present if carrierMask1 = 1. (carrierMask1= carrierMask2 = 0) indicating BCCH carrier
tSC	B3		
tN	B3		
carrierMask1	B1		
carrierMask2	B1		
aRFCN	B10		present if (carrierMask1 = 0 and carrierMask2 = 1)
mAIO	B6		present if carrierMask1 = 1
Detailed Comments : 3GPP TS 44.018 clause 10.5.2.37b			

Structured Type Definition			
Type Name : PBCCH_Info Encoding Variation : Comments : parameters for packet broadcast channel			
Element Name	Type Definition	Field Encoding	Comments
pSI1_REPEAT_PERIOD	PSI1_REPEAT_PERIOD		The repeat period of packet system information Type 1. See 3GPP TS 44.060 section 11.2.18
pSI_COUNT_HR	PSI_COUNT_HR		The number of PSI message instances sent with high repetition rate. See 3GPP TS 44.060 section 11.2.18
pSI_COUNT_LR	PSI_COUNT_LR		The number of PSI message instances sent with low repetition rate. See 3GPP TS 44.060 section 11.2.18
Detailed Comments : see 3GPP TS 44.060 section 12.25			

Structured Type Definition			
Type Name : PCCCHDescription Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
tSC	B3		
nonHoppingPCCCHCarrierMask	B1		
nonHoppingPCCCHCarriers	NonHoppingPCCCHCarrierList		not present if nonHoppingPCCCH_Carriers = 1
mA_NUMBER	B4		not present if nonHoppingPCCCH_Carriers = 0
hoppingPCCCHCarriers	HoppingPCCCHCarrierList		not present if nonHoppingPCCCH_Carriers = 0
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : PCCCH_DescriptionList Encoding Variation : Comments : The definition of this type is <PCCCH Description Lists struct> ::= {1 <PCCCH Description struct>}**0, so the prefix bit and following structure may repeat infinite times. This TTCN definition shall be modified to include more pCCCHDescription if more than 1 pCCCHDescription are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		value = 1 if present
pCCCHDescription1	PCCCHDescription		
endingRepetition	B1		the value of this bit is always zero to indicate the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : PCCCH_Info Encoding Variation : Comments : parameters for packet common control channels. 3GPP TS 44.060 clause 12.25			
Element Name	Type Definition	Field Encoding	Comments
bS_PBCCH_BLKs	B2		3GPP TS 04.60 or 3GPP TS 44.060 clause 12.25
bS_PAG_BLKs_RES	B4		3GPP TS 04.60 or 3GPP TS 44.060 clause 12.25
bS_PRACH_BLKs	B4		3GPP TS 04.60 or 3GPP TS 44.060 clause 12.25
Detailed Comments :			

Structured Type Definition			
Type Name : PCCCH_OrganisationParameters Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
bS_PCC_REL	B1		
bS_PBCCH_BLKs	B2		
bS_PAG_BLKs_RES	B4		
bS_PRACH_BLKs	B4		
Detailed Comments : 3GPP TS 44.060 clause 12.25			

Structured Type Definition			
Type Name : PCCOServingCellData Encoding Variation : Comments : ref: 44.060 v5a0 clause 11.2.9d			
Element Name	Type Definition	Field Encoding	Comments
rxLevServingCell	B6		
mask	B1		
interferenceServingCell	B6		not present if mask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : PRACH_ControlParameters Encoding Variation : Comments : 3GPP TS 44.060 clause 12.14			
Element Name	Type Definition	Field Encoding	Comments
aCC_CONTR_CLASS	B16		
mAX_RETRANS1	B2		
mAX_RETRANS2	B2		
mAX_RETRANS3	B2		
mAX_RETRANS4	B2		
sParameter	B4		
tX_INT	B4		
persistenceLevelMask	B1		
pERSISTENCE_LEVEL1	B4		not present if persistenceLevelMask = 0
pERSISTENCE_LEVEL2	B4		not present if persistenceLevelMask = 0
pERSISTENCE_LEVEL3	B4		not present if persistenceLevelMask = 0
pERSISTENCE_LEVEL4	B4		not present if persistenceLevelMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : PacketChDescr Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.25a			
Element Name	Type Definition	Field Encoding	Comments
chType	B5		channel type
tN	B3		time slot
tSC	B3		training sequence code
maskBit1	B1		
maskBit2	B1		not present if maskBit1 = 1.
spareBit1	B1		not present if maskBit1 = 1 or maskBit2 = 1
aRFCN	B10		not present if maskBit1 = 1 or maskBit2 = 1
spareBit	B1		not present if maskBit1 = 1 or maskBit2 = 0
mAIO	B6		not present if maskBit1 = 1 or maskBit2 = 0
mA_NumberInd	B1		
maskBit3	B1		
spareBits	B2		not present if maskBit1 = 1 or maskBit2 = 0 or maskBit3 = 1
CHANGE_MARK_1	B2		not present if maskBit1 = 1 or maskBit2 = 0 or maskBit3 = 0
mIAO	B6		not present if maskBit1 = 0
hSN	B6		not present if maskBit1 = 0
Detailed Comments :			

Structured Type Definition			
Type Name : PacketDownlinkAssign			
Encoding Variation :			
Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Type Definition	Field Encoding	Comments
tLLI	O4	LowHigh_Rule3	TLLI
mask	B1		
tFI_Assignment	B5		temporary flow identifier
			not present if mask = 0
rLC_Mode	B1		RLC mode
			not present if mask = 0
alphaMask	B1		not present if mask = 0.
aLPHA	B4		not present if mask = 0 or alphaMask = 0
gAMMA	B5		not present if mask = 0
pOLLING	B1		not present if mask = 0
tA_VALID	B1		not present if mask = 0
taIndexMask	B1		
tIMING_ADVANCE_INDEX	B4		not present if mask = 0 or taIndexMask = 0
startingTimeMask	B1		not present if mask = 0
tBF_STARTING_TIME	B16		not present if mask = 0 or startingTimeMask = 0
pwrCtrlMask	B1		not present if mask = 0
p0	B4		not present if mask = 0 or pwrCtrlMask = 0
spareBit	B1		not present if mask = 0 or pwrCtrlMask = 0 Set to 0
pR_MODE	B1		not present if mask = 0 or pwrCtrlMask = 0
egprsMask	B1		
eGPRSWindowSize	EGPRSWindowSize		not present if egprsMask = L
linkQualityMeasMode	B2		not present if egprsMask = L
bepPriod2Mask	B1		not present if egprsMask = L
BepPeriod2	B4		not present if egprsMask = L or bepPriod2Mask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : PacketTimingAdvance Encoding Variation : Comments : 3GPP TS 44.060 clause 12.12			
Element Name	Type Definition	Field Encoding	Comments
taValueMask	B1		
timingAdvanceValue	B6		not present if taValueMask = 0
taIndexMask	B1		
timingAdvanceIndex	B4		not present if taIndexMask = 0
timingAdvanceSlotNumber	B3		not present if taIndexMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : PacketUplinkAssign			
Encoding Variation :			
Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Type Definition	Field Encoding	Comments
allocMask	B1	LowHigh_Rule3	0 -> indicating single block allocation
tFI_Assignment	B5		temporary flow identifier
pOLLING	B1		not present if allocMask = 0
spareBit	B1		not present if allocMask = 0
			not present if allocMask = 0.
			Set to 0
uSF	B3		not present if allocMask = 0
uSFGranularity	B1		not present if allocMask = 0
p0Mask	B1		not present if allocMask = 0
p0	B4		not present if allocMask = 0
			or p0Mask = 0
pR_MODE	B1		not present if allocMask = 0
			or p0Mask = 0
ChannelCodingCommand	B2		not present if allocMask = 0
tLLI_BlockChannelCodeing	B1		not present if allocMask = 0
alphaMask	B1		not present if allocMask = 0
aLPHA	B4		not present if allocMask = 0
			or alphaMask = 0
gMMA	B5		not present if allocMask = 0
taMask	B1		not present if allocMask = 0
tIMING_ADVANCE_INDEX	B4		not present if allocMask = 0
			or taMask = 0
startingTimeMask	B1	not present if allocMask = 0	
tBF_STARTING_TIME	B16	not present if allocMask = 0	
		or startingTimeMask = 0	
alpha1Mask	B1	present if allocMask = 0	
		single block allocation	
aLPHA1	B4	not present if allocMask = 1	
		or alpha1Mask = 0	
gMMA1	B5	not present if allocMask = 1	
prefixBits	B2	not present if allocMask = 1	
		the value is 01 if present	
tBF_STARTING_TIME1	B16	not present if allocMask = 1	
p02Mask	B1	not present if allocMask = 1	
p02	B4	not present if allocMask = 1	
		or p02Mask = L	
spareBit2	B1	not present if allocMask = 1	
		or p02Mask = L Set to 0	
pR_MODE2	B1	not present if allocMask = 1	
		or p02Mask = L	
r99Mask	B1	LowHigh_Rule3	
extRAMask	B1		not present if r99Mask = L
extRA	B5		not present if r99Mask = L
			or extRAMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : PageModelE Encoding Variation : Comments : Page mode 3GPP TS 44.018 clause 10.5.2.26			
Element Name	Type Definition	Field Encoding	Comments
iei	B4		
sprb	B2		spare bits
pgm	B2		page mode
Detailed Comments :			

Structured Type Definition			
Type Name : PowerControlParam Encoding Variation : Comments : Power control parameters 3GPP TS 44.018 clause 12.13			
Element Name	Type Definition	Field Encoding	Comments
aLPHA	B4		
gmmaMask0	B1		
gMMA_TN0	B5		not present if gmmaMask0 = 0
gmmaMask1	B1		
gMMA_TN1	B5		not present if gmmaMask1 = 0
gmmaMask2	B1		
gMMA_TN2	B5		not present if gmmaMask2 = 0
gmmaMask3	B1		
gMMA_TN3	B5		not present if gmmaMask3 = 0
gmmaMask4	B1		
gMMA_TN4	B5		not present if gmmaMask4 = 0
gmmaMask5	B1		
gMMA_TN5	B5		not present if gmmaMask5 = 0
gmmaMask6	B1		
gMMA_TN6	B5		not present if gmmaMask6 = 0
gmmaMask7	B1		
gMMA_TN7	B5		not present if gmmaMask7 = 0
Detailed Comments :			

Structured Type Definition			
Type Name : RACHControlParam Encoding Variation : Comments : Rach control parameters 3GPP TS 44.018 clause 10.5.2.29			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information element identifier
maxretx	B2		maximum retransmissions
txInteger	B4		Tx integer, number of slots to spread transmission
cellBarAccess	B1		cell barred for access
re	B1		call reestablishment allowed
acc_2	B5		access control class 15–11
ec	B1		emergency call allowed
acc_1	B10		access control class 9–0
Detailed Comments : The info element has a fixed length of 3 octets.			

Structured Type Definition			
Type Name : RFL_NumberList Encoding Variation : Comments : 3GPP TS 44.060 clause 12.10a			
Element Name	Type Definition	Field Encoding	Comments
rFL_Number1	B4		
prefix2	B1		value = 1 if present
rFL_Number2	B4		
prefix3	B1		value = 1 if present
rFL_Number3	B4		
prefix4	B1		value = 1 if present
rFL_Number4	B4		
prefix5	B1		value = 1 if present
rFL_Number5	B4		
endBit	B1		The value of this bit is always zero to indicate the end of the structure
Detailed Comments : It's a recursive structure. The definition is <RFL number list struct> ::= <RFL_NUMBER : bit(4)> {0 | 1 <RFL number list struct>} the rFL_Number can be repeated infinite times, this TTCN definition shall be modified to include more rFL_Number if more than 5 rFL_Number are required in the constraint.			

Structured Type Definition			
Type Name : RFN Encoding Variation : Comments : The reduced frame number corresponding to the absolute frame number (FN) modulo 42432.			
Element Name	Type Definition	Field Encoding	Comments
t1_	B5		(FN div 1326) mod 32
t3	B6		FN mod 51
t2	B5		FN mod 26
Detailed Comments : see 3Gpp TS 44.018 section 10.5.2.38. The reduced frame number, FN modulo 42432 can be calculated in the following formula: $51 * ((t3 - t2) \bmod 26) + t3 + 1326 * t1_$.			

Structured Type Definition			
Type Name : RR_Cause Encoding Variation : Comments : RR Cause 3GPP TS 44.018 clause 10.5.2.31			
Element Name	Type Definition	Field Encoding	Comments
iei	B8		
cause	B8		
Detailed Comments :			

Structured Type Definition			
Type Name : RTD12_List_List Encoding Variation : Comments : the CSN.1 definition for RTD12_List_List in GPRS Real Time Difference Description is an indeterminate repetition, so the TTCN definition shall be modified to include more bA_RTD12_List if more than 1 bA_RTD12_List is required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
rTD12_List	GPRS_RTD12_List		
prefix1	B1		always = 0
rTD12_List1	GPRS_RTD12_List		
endingRepetition	B1		always = '1'B indicating the end of the structure
Detailed Comments : 3GPP TS 44.018, 10.5.2.33b			

Structured Type Definition			
Type Name : RTD6_List_List Encoding Variation : Comments : the CSN.1 definition for RTD6_List_List in GPRS Real Time Difference Description is an indeterminate repetition, so the TTCN definition shall be modified to include more bA_RTD6_List if more than 1 bA_RTD6_List are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
rTD6_List	GPRS_RTD6_List		
prefix1	B1		always = 0
rTD6_List1	GPRS_RTD6_List		
endingBit	B1		always = '1'B indicating the end of the structure
Detailed Comments : 3GPP TS 44.018, 10.5.2.33b			

Structured Type Definition			
Type Name : RangeList Encoding Variation : Comments : Range list 3GPP TS 44.018 clause 10.5.2.1c Only 1 repetition has been included. If more are required, the TTCN will be changed			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		value = 1 if present
rangeLower1	B10		
rangeUpper1	B10		
endingRepetition	B1		always = 0 indicating the end of the structure
Detailed Comments : the TTCN definition shall be modified if more than 10 ranges are required in the constraint			

Structured Type Definition			
Type Name : ReferenceFreq Encoding Variation : Comments : Reference : 3GPP TS 44.060 clause 11.2.19 rFL_Contents is the value part of "Frequency List" information element, the allowed formats are bit map 0, 1024 range, 512 range, 256 range, 128 range and variable bit map			
Element Name	Type Definition	Field Encoding	Comments
rFL_NUMBER	B4		identification of the RFL
lengthOfRFLContents	B4		
rFL_Contents	OCTETSTRING[3..18]		the value part of "Frequency List" information element defined in 3GPP TS 44.018 clause 10.5.2.13
Detailed Comments :			

Structured Type Definition			
Type Name : ReferenceFreqLists Encoding Variation : Comments : The definition in CSN.1 is {1 < Reference Frequency struct >}**0, so the prefix bit and following structure may repeat infinite times, this TTCN definition shall be modified to include more ReferenceFreq if more than 1 ReferenceFreq are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.19			
Element Name	Type Definition	Field Encoding	Comments
prefix1	B1		value = 1 if present
referenceFreq1	ReferenceFreq		
endingRepetition	B1		Value always ZERO, indicates the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Definition			
Type Name : RepeatedUTRAN_FDD_NeighCells			
Encoding Variation :			
Comments : 3GPP TS 44.018 clause 9.1.54			
Element Name	Type Definition	Field Encoding	Comments
arfcnIndexMask	B1		present if arfcnIndexMask = 0
fDD_ARFCN	B14		
fDD_Indic0	B1		length of this bitstring = p(nR_OF_FDD_CELLS)
nR_OF_FDD_CELLS	B5		
fDD_CELL_INFORMATION	BITSTRING		
Detailed Comments : function p(x) is: p(0) = 0, p(1) = 10, p(2) = 19, p(3) = 28, p(4) = 36, p(5) = 44, p(6) = 52, p(7) = 60, p(8) = 67, p(9) = 74, p(10) = 81, p(11) = 88, p(12) = 95, p(13) = 102, p(14) = 109, p(15) = 116, p(16) = 122, p(x) = 0 for x = 17–31.			

Structured Type Definition			
Type Name : RepeatedUTRAN_TDD_NeighCells			
Encoding Variation :			
Comments : 3GPP TS 44.018 clause 9.1.54			
Element Name	Type Definition	Field Encoding	Comments
arfcnIndexMask	B1		not present if arfcnIndexMask = 0
tDD_ARFCN	B14		
tDD_Indic0	B1		
nR_OF_TDD_CELLS	B5		
tDD_CELL_INFORMATION	BITSTRING		length of this bitstring = p(nR_OF_TDD_CELLS)
Detailed Comments : function p(x) is: p(0) = 0, p(1) = 10, p(2) = 19, p(3) = 28, p(4) = 36, p(5) = 44, p(6) = 52, p(7) = 60, p(8) = 67, p(9) = 74, p(10) = 81, p(11) = 88, p(12) = 95, p(13) = 102, p(14) = 109, p(15) = 116, p(16) = 122, p(x) = 0 for x = 17–31.			

Structured Type Definition			
Type Name : ReqRef			
Encoding Variation :			
Comments : Request reference 3GPP TS 44.018 clause 10.5.2.30			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		information element identifier
radoAccessInfo	B8		
fn	RFN		
Detailed Comments :			

Structured Type Definition			
Type Name : RptdInvalidBSICInfo Encoding Variation : Comments : ref: 44.060 v5a0 clause 11.2.9d Only 2 repetitions have only been implemented. If more are required, the definition will be changed			
Element Name	Type Definition	Field Encoding	Comments
mask1	B1		not present if mask1 = 0
bCCHFreqNCell1	B5		
bSIC1	B6		
rxLevNCell1	B6		not present if mask1 = 0
mask2	B1		not present if mask2 = 0
bCCHFreqNCell2	B5		
bSIC2	B6		
rxLevNCell2	B6		not present if mask2 = 0
endingRepetition	B1		always = '0'B indicating the end of the structure
Detailed Comments :			

Structured Type Definition			
Type Name : SI13PBCCH_Location Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.37b			
Element Name	Type Definition	Field Encoding	Comments
sl13LocationMask	B1		
sl13_LOCATION	B1		not present if sl13LocationMask = 1
PBCCH_LOCATION	B2		not present if sl13LocationMask = 0
pSI1_REPEAT_PERIOD	B4		not present if sl13LocationMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : SI13RO Encoding Variation : Comments : SI13 Rest Octets 3GPP TS 44.018 clause 10.5.2.37b			
Element Name	Type Definition	Field Encoding	Comments
mask	B1	LowHigh_Rule3	the remainder of the fields are all not present if mask = L
bCCH_CHANGE_MARK	B3		
sl_CHANGE_FIELD	B4		
sl3ChangeMask	B1		not present if sl3ChangeMask = 0
sl13_CHANGE_MARK	B2		not present if sl3ChangeMask = 0
gPRS_MobileAllocation	GPRSMobileAlloc		'0' -> no PBCCH
pbcchMask	B1		present if pbcchMask = 0
rAC	O1		present if pbcchMask = 0
sPGC_CCCH_SUP	B1		present if pbcchMask = 0
pRRIORITY_ACCESS_THR	B3		present if pbcchMask = 0
nETWORK_CONTROLI_OR DER	B2		present if pbcchMask = 0
gPRS_CellOptions	GPRS_CellOptions		present if pbcchMask = 0
gPRS_PowerControlParam eters	GPRS_PowerControlParam eters		present if pbcchMask = 0
pSI1_REPEAT_PERIOD	B4		present if pbcchMask = 1
pBCCH_Description	PBCCH_Descr		present if pbcchMask = 1
r99Mask	B1	LowHigh_Rule3	addition in R99
sGSR	B1		present if r99Mask = H
r4Mask	B1	LowHigh_Rule3	addition in R4
sl_STATUS_IND	B1		present if r4Mask = H
Detailed Comments : The info element has a fixed length of 20 octets.			

Structured Type Definition			
Type Name : SI1RO			
Encoding Variation :			
Comments : SI1 Rest Octets 3GPP TS 04.018 clause 10.5.2.32			
Element Name	Type Definition	Field Encoding	Comments
mask	B1	LowHigh_Rule3	not present if mask = L L= DCS1800; H=PCS1900
nCH_Position	B5		
bandIndicator	B1	LowHigh_Rule3	
Detailed Comments : The info element has a fixed length of 1 octet.			

Structured Type Definition			
Type Name : SI2quaterRO Encoding Variation : Comments : SI2quater Rest Octets 3GPP TS 44.018 clause 10.5.2.33b			
Element Name	Type Definition	Field Encoding	Comments
bA_IND	B1	LowHigh_Rule3	
bA_IND_3G	B1		
mP_CHANGE_MARK	B1		
sl2quater_INDEX	B4		
sl2quater_COUNT	B4		
measParamMask	B1		
measParamDescription	MeasParamDescr		not present if measParamMask = 0
gprsRTDMask	B1		
gPRS_RealTimeDiffDescr	GPRS_RealTimeDiffDescr		not present if gprsRTDMask = 0
gprsBSICMask	B1		
gPRS_BSIC_Description	GPRS_BSIC_Descr		not present if gprsBSICMask = 0
gprsRepPrioMask	B1		
gPRS_REP_PRIORITY_Des cr	GPRS_REP_PRIORITY_Des cr		not present if gprsRepPrioMask = 0
gprsMeasParamMask	B1		
gPRS_MeasParamsDescr	SI2quaterRO_GPRS_MeasP aramDescr		not present if gprsMeasParamMask = 0
ncMeasParamMask	B1		
NC_Measurement_Paramete rs	NC_MeasParams		not present if ncMeasParamMask = 0
extnLengthMask	B1		
extensionLength	ExtLengthDescr		
neighCellMask	B1		
neighCellDes3G	NeighCellDescr3G		not present if neighCellMask = 0
measParam3GMask	B1		
measurementParams3G	SI2quaterRO_MeasParamDe scr3G		not present if measParam3GMask = 0
gprsMeasParam3GMask	B1		
gPRS_3G_MeasParamDescr	SI2quaterRO_GPRS_3G_M easParamDescr		not present if gprsMeasParam3GMask = 0
rel5Mask	B1		
addMeasMask	B1		not present if mask = L or rel5Mask = L
addMeasParam3G	AdditionalMeasParam3G		not present if mask = L, rel5Mask = L or addMeasMask = 0
addMeasMask2	B1		not present if mask = L or rel5Mask = L
fddRepThres2Mask	B1		not present if mask = L, rel5Mask = L or addMeasMask2 = 0

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
fddRepThreshold2	B6		not present if mask = L, rel5Mask = L, addMeasMask2 = 0 or fddRepThres2Mask = 0
Detailed Comments : The info element has a fixed length of 20 octets.			

Structured Type Definition			
Type Name : SI2quaterRO_GPRS_3G_MeasParamDescr			
Encoding Variation :			
Comments :			
Element Name	Type Definition	Field Encoding	Comments
qsearch_P	B4		
sEARCH_PRIO_3G	B1		
fDD_REP_QUANT_Mask	B1		
fDD_REP_QUANT	B1		not present if fDD_REP_QUANT_Mask = 0
fDD_MULTIRAT_REPORTING	B2		not present if fDD_REP_QUANT_Mask = 0
fDD_ReportingMask	B1		
fDD_REPORTING_OFFSET	B3		not present if fDD_ReportingMask = 0
fDD_REPORTING_THRESHOLD	B3		not present if fDD_ReportingMask = 0
tDD_MultiratReportingMask	B1		
tDD_MULTIRAT_REPORTING	B2		not present if tDD_MultiratReportingMask = 0
tDD_ReportingMask	B1		
tDD_REPORTING_OFFSET	B3		not present if tDD_ReportingMask = 0
tDD_REPORTING_THRESHOLD	B3		not present if tDD_ReportingMask = 0
Detailed Comments : Reference : 3GPP TS 44.018 clause 10.5.2.33b			

Structured Type Definition			
Type Name : SI2quaterRO_GPRS_MeasParamDescr Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
rREPORT_TYPE	B1		
rREPORTING_RATE	B1		
INVALID_BSIC_REPORTING	B1		
multibandReportingMask	B1		
multibandReporting	B2		not present if multibandReportingMask = 0
servingBandReportingMask	B1		not present if servingBandReportingMask = 0
servingBandReporting	B2		not present if servingBandReportingMask = 0
sCALE_ORD_Mask	B1		
sCALE_ORD	B2		not present if sSCALE_ORD_Mask = 0
mask900	B1		
rREPORTING_OFFSET_900	B3		not present if mask900 = 0
rREPORTING_THRESHOLD_900	B3		not present if mask900 = 0
mask1800	B1		
rREPORTING_OFFSET_1800	B3		not present if mask1800 = 0
rREPORTING_THRESHOLD_1800	B3		not present if mask1800 = 0
mask450	B1		
rREPORTING_OFFSET_450	B3		not present if mask450 = 0
rREPORTING_THRESHOLD_450	B3		not present if mask450 = 0
mask1900	B1		
rREPORTING_OFFSET_1900	B3		not present if mask1900 = 0
rREPORTING_THRESHOLD_1900	B3		not present if mask1900 = 0
mask850	B1		
rREPORTING_OFFSET_850	B3		not present if mask850 = 0
rREPORTING_THRESHOLD_850	B3		not present if mask850 = 0
Detailed Comments : Reference : 3GPP TS 44.018 clause 10.5.2.33b			

Structured Type Definition			
Type Name : SI2quaterRO_MeasParamDescr3G			
Encoding Variation :			
Comments : 3G MEASUREMENT PARAMETERSI description in SI2quater rest octets			
Element Name	Type Definition	Field Encoding	Comments
qsearsh_I	B4		
qsearch_C_Initial	B1		
fDDMask	B1		
fDD_Qoffset	B4		not present if fDDMask = 0
fDD_REP_QUANT	B1		not present if fDDMask = 0
fDD_MULTIRAT_REPORTI NG	B2		not present if fDDMask = 0
fDD_Qmin	B3		not present if fDDMask = 0
tDDMask	B1		
tDD_Qoffset	B4		not present if tDDMask = 0
tDD_MULTIRAT_REPORTI NG	B2		not present if tDDMask = 0
Detailed Comments :			

Structured Type Definition			
Type Name : SI3RO			
Encoding Variation :			
Comments : SI3 Rest Octets 3GPP TS 44.018 clause 10.5.2.34			
Element Name	Type Definition	Field Encoding	Comments
cellSelectMask	B1	LowHigh_Rule3	Cell select parameter mask
cbq	B1		not present if cellSelectMask = L, Cell bar qualify
cellReselectOffset	B6		not present if cellSelectMask = L
temporaryOffset	B3		not present if cellSelectMask = L
penaltyTime	B5		not present if cellSelectMask = L
powerOffsetMask	B1	LowHigh_Rule3	Power offset mask
powerOffset	B2		not present if powerOffsetMask = L
sl2terIndicator	B1	LowHigh_Rule3	SI 2ter indicator L= no SI2ter
earlyClassMarkSendingControl	B1	LowHigh_Rule3	L= forbidden, H= allowed
mask3	B1	LowHigh_Rule3	mask bit for scheduling info
schedulingWhere	B3		not present if mask3 = L
mask4	B1	LowHigh_Rule3	mask bit for GPRS indicator
rA_Colour	B3		not present if mask4 = L
sl13Position	B1	LowHigh_Rule3	not present if mask4 = L
earlyClassMarksendingRestriction3G	B1		L=no early 3G classmark sending
mask5	B1	LowHigh_Rule3	mask bit for SI2quaterPosition
sl2quaterPosition	B1		not present if mask5 = L
SI13altPosition	B1		only present if lu supported in cell
Detailed Comments : The info element has a fixed length of 4 octets.			

Structured Type Definition			
Type Name : SI4RO Encoding Variation : Comments : SI4 Rest Octets 3GPP TS 44.018 clause 10.5.2.35			
Element Name	Type Definition	Field Encoding	Comments
cellSelectMask	B1	LowHigh_Rule3	Cell selection parameter mask
cbq	B1		not present if cellSelectMask = L, Cell bar qualify
cellReselectOffset	B6		not present if cellSelectMask = L
temporaryOffset	B3		not present if cellSelectMask = L
penaltyTime	B5		not present if cellSelectMask = L
powerOffsetMask	B1	LowHigh_Rule3	Power offset mask
powerOffset	B2		not present if powerOffsetMask = L
raColourMask	B1	LowHigh_Rule3	GPRS indicator
rA_Colour	B3		not present if raColourMask = L
sl13Position	B1		not present if raColourMask = L
breakMask	B1	LowHigh_Rule3	
breakIndicator	B1	LowHigh_Rule3	present if breakMask = L
IsaParamMask	B1	LowHigh_Rule3	present if breakMask = H
pRIO_THR	B3		not present if IsaParamMask = L or breakMask = L
ISA_OFFSET	B3		not present if IsaParamMask = L or breakMask = L
mccMask	B1		not present if breakMask = L or ISAParamMask = L
mCC	B12		not present if mccMask = 0 or breakMask = L or ISAParamMask = L
nMC	B12		not present if mccMask = 0 or breakMask = L or ISAParamMask = L
cellIDMask	B1	LowHigh_Rule3	not present if breakMask = L
cellIdentity	B16		not present if cellIDMask = L or breakMask = L
IsaMask	B1	LowHigh_Rule3	not present if breakMask = L
sl4RO_LSA_ID_Info	SI4RO_LSA_ID_Info		not present if IsaMask = L or breakMask = L
cBQ3Mask	B1	LowHigh_Rule3	not present if breakMask = L
cBQ3	B2		not present if breakMask = L or cBQ3Mask = L
si13altMask	B1		not present if breakMask = L or cBQ3Mask = L
si13altPosition	B1		not present if breakMask = L or cBQ3Mask = L or si13altMask = 0
Detailed Comments : The info element has a length of 0 to 10 octets.			

Structured Type Definition			
Type Name : SI4RO_LSA_ID_Info			
Encoding Variation :			
Comments : The definition is < LSA ID Information > ::=			
< LSA identity> {0 | 1 <LSA ID information>;			
<LSA identity> ::=			
{0 <LSA_ID : bit(24)>			
| 1 <ShortLSA_ID : (10)>},			
this a recursive definition, can be repeated many times. So the TTCN definition shall be modified to			
include more ISA_ID if the constaint requires more than 1 ISA_ID.			
Reference : 3GPP TS 44.018 clause 10.5.2.35			
Element Name	Type Definition	Field Encoding	Comments
ISA_ID_Mask1	B1		not present if ISA_ID_Mask1 = 1
ISA_ID1	B24		
ShortLSA_ID1	B10		
endingRepetition	B1		
Detailed Comments : 3GPP TS 44.018 clause 10.5.2.35			

Structured Type Definition			
Type Name : SI6RO Encoding Variation : Comments : SI6 Rest Octets 3GPP TS 44.018 clause 10.5.2.35a			
Element Name	Type Definition	Field Encoding	Comments
pchNchMask	B1	LowHigh_Rule3	PCH, NCH info mask
pagingChRestructuring	B1		not present if pchNchMask = L
nLN_SACCH	B2		not present if pchNchMask = L
prioMask	B1		not present if pchNchMask = L
callPriority	B3		not present if pchNchMask = L or prioMask = 0
nLN_Status	B1	LowHigh_Rule3	not present if pchNchMask = L
inbandMask	B1		
inbandNotifications	B1		not present if inbandMask = L
inbandPagings	B1	LowHigh_Rule3	not present if inbandMask = L
dTM_Supported	B1		
rAC	B8		not present if dTM_Supported = L
mAX_LAPDm	B3	LowHigh_Rule3	not present if dTM_Supported = L
bandIndicator	B1		L = 1800 band supported, H = 1900 band supported
txPwrMask	B1		
gPRS_MS_TXPWT_MAX_C CH	B5	LowHigh_Rule3	not present if txPwrMask = L
Detailed Comments : The info element has a fixed length of 7 octets.			

Structured Type Definition			
Type Name : SecondPacketAssign			
Encoding Variation :			
Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Type Definition	Field Encoding	Comments
mask1	B1	LowHigh_Rule3	
mask2	B1		not present if mask1 = L
extendedRA	B5		not present if mask1 = L or mask2 = 0
Detailed Comments :			

Structured Type Definition			
Type Name : ServingCellParams Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
cELL_BAR_ACCESS_2	B1		
eXC_ACC	B1		
gPRS_RXLEV_ACCESS_MIN	B6		
gPRS_MS_TXPWR_MAX_CCH	B5		
hCS_ServingCellParametersMask	B1		
hCS_ServingCellParameters	HCS		not present if hCS_ServingCellParametersMask = 0
mULTIBAND_REPORTING	B2		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Definition			
Type Name : StartingTime Encoding Variation : Comments : Starting time 3GPP TS 44.018 clause 10.5.2.38			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01111100'B
fn	RFN		
Detailed Comments :			

Structured Type Definition			
Type Name : TA Encoding Variation : Comments : Timing advance GSM 04.08, 10.5.2.40			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01111101'B
sprb	BITSTRING [2]		'00'B
value	BITSTRING [6]		one unit = 48/13 microseconds (in 1 bit periods)
Detailed Comments :			

Structured Type Definition			
Type Name : UTRANPreConfigInfo Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.7a			
Element Name	Type Definition	Field Encoding	Comments
iei iel value	IEI_8 O1 OCTETSTRING		used to be: InterRATHandoverInfo
Detailed Comments :			

Structured Type Definition			
Type Name : UTRAN_ARFCN Encoding Variation : Comments : The CSN.1 definition is an indeterminate repetition, so the TTCN definition shall be modified to include more uTRAN_ARFCN in more than 1 uTRAN_ARFCN are required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
prefix1 uTRAN_ARFCN1 endingRepetition	B1 B14 B1		value = 1 if present always = '0'B indicating the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.25b			

Structured Type Definition			
Type Name : UTRAN_FDD_Descr Encoding Variation : Comments : the CSN.1 definition is <UTRAN FDD description struct> ::= {0 | 1 <Bandwidth_FDD : bit(3) >} {1 <Repeated UTRAN FDD Neighbour Cells : <Repeated UTRAN FDD Neighbour Cells struct>>}**0, the "Repeated UTRAN FDD Neighbour Cells" can be repeated many times as required, the current TTCN definition contains 3 repetitions only, it shall be modified if more repetition is required in the constraint.			
Element Name	Type Definition	Field Encoding	Comments
bandwidthMask bandwidthFDD prefix1 repeatedUTRAN_FDD_NeighbourCells1 prefix2 repeatedUTRAN_FDD_NeighbourCells2 endingRepetition	B1 B3 B1 RepeatedUTRAN_FDD_NeighbourCells B1 RepeatedUTRAN_FDD_NeighbourCells B1		not present if bandwidthMask = 0 value = 1 if present value = 1 if present always = '0'B indicating the end of the structure
Detailed Comments : 3GPP TS 44.018 clause 9.1.54			

Structured Type Definition			
Type Name : UTRAN_FreqList Encoding Variation : Comments : UTRAN frequency list 3GPP TS 44.018 clause 10.5.2.1d			
Element Name	Type Definition	Field Encoding	Comments
iei	B8		'01001100'B
iel	O1		
fDD_ARFCN	UTRAN_ARFCN		FDD frequencies
tDD_ARFCN	UTRAN_ARFCN		TDD frequencies
spareBits	BITSTRING		
Detailed Comments :			

Structured Type Definition			
Type Name : UTRAN_TDD_Descr			
Encoding Variation :			
Comments : the CSN.1 definition is <UTRAN TDD description struct> ::= {0 | 1 <Bandwidth_TDD : bit(3) >} {1 <Repeated UTRAN TDD Neighbour Cells : <Repeated UTRAN TDD Neighbour Cells struct>>}**0, the "Repeated UTRAN TDD Neighbour Cells" can be repeated many times as required, the current TTCN definition contains 1 repetitions only, it shall be modified if more repetition is required in the constaint.			
Element Name	Type Definition	Field Encoding	Comments
bandwidthMask	B1		not present if bandwidthMask = 0 value = 1 if present
bandwidthTDD	B3		
prefix1	B1		always = '0'B indicating the end of the structure
repeatedUTRAN_TDD_NeighbourCells1	RepeatedUTRAN_TDD_NeighbourCells		
endingRepetition	B1		
Detailed Comments : 3GPP TS 44.018 clause 9.1.54			

Structured Type Definition			
Type Name : ExtLengthDescr Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
extensionLength	B8		
sparebit	BITSTRING		
Detailed Comments :			

Structured Type Definition			
Type Name : CompactReducedMA Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
reducedMABitmapLen	B7		
reducedMABitmap	BITSTRING[0..128]		contents of length reducedMABitmapLen
MAIO_2mask	B1		
MAIO_2	B6		not present if MAIOmask=0
Detailed Comments :			

Structured Type Definition			
Type Name : GlobalTFI Encoding Variation : Comments : 3GPP TS 44.046 clause 12.10			
Element Name	Type Definition	Field Encoding	Comments
TFImask	B1		
uplinkTFI	B5		not present if TFImask=1
downlinkTFI	B5		not present if TFImask=0
Detailed Comments :			

Structured Type Definition			
Type Name : PSI2Info Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
rFL_Contents_Len	B4		Length of RFL contents
rFL_Contents	OCTETSTRING		Reference : 3GPP TS 44.060 clause 11.2.19 RFL contents
mALen	B6		Length of GPRS MA contents
mABitmap	BITSTRING		Reference: 3GPP TS 44.060 clause 12.10a GPRS MA bitmap
Detailed Comments :			

Structured Type Definition			
Type Name : PSI3Info Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
startFreq	B10		Start Frequency
freqDiffLen	B3		Reference: 3GPP TS 44.060 clause 11.2.20.
freqDiff	BITSTRING		Frequency Difference length Frequency Difference
Detailed Comments :			

Structured Type Definition			
Type Name : StartingFrameNumberDscr Encoding Variation : Comments : 3GPP TS 44.046 clause 12.21			
Element Name	Type Definition	Field Encoding	Comments
encodingMask	B1		
absoluteFrameNumEnc	RFN		not present if encodingMask=1
relativeFrameNumEnc	BITSTRING[0..13]		not present if encodingMask=0
Detailed Comments :			

Structured Type Definition			
Type Name : CellInfoCfg Encoding Variation : Comments : This structure contains relevant information describing a cell configuration as needed for basic test Steps like ts_CreateCell and ts_IdleUpdated. NOTE: this information is not related to any PDUs, IEs or ASPs			
Element Name	Type Definition	Field Encoding	Comments
cellId	INTEGER		Cell Id
frequencyInfo	FrequencyInfo		Frequency information for current cell
attenuationLevel	INTEGER		Value of RF attenuator
priScrmCode	PrimaryScramblingCode		Primary Scrambling Code
powerpCPICH	DL_TxPower_PCPICH		Absolute Tx Power of (primary) CPICH
powerpSCH	DL_TxPower		Tx power level of primary SCH relative to CPICH
powersSCH	DL_TxPower		Tx power level of secondary SCH relative to CPICH
powerpCCPCH	DL_TxPower		Tx power level of primary CCPCH relative to CPICH
powersCCPCH	DL_TxPower		Tx power level of secondary CCPCH relative to CPICH
powersCCPCH1	DL_TxPower		Tx power level of secondary CCPCH1 relative to CPICH
timingsCCPCH1	INTEGER		Timing offset for secondary CCPCH1
powerAICH	AICH_PowerOffset		Tx power level of AICH relative to CPICH
powerPICH	PICH_PowerOffset		Tx power level of PICH relative to CPICH
cellTxPowerLevel	CellTxPowerLevel		Total cell power level (\geq sum of all configured physical channels)
tCell	Tcell		Cell timing offset (in chips)
sfnOffset	INTEGER		SFN offset (in frames)
puncLimit	PuncturingLimit		Puncturing limit for PRACH
sf_PRACH	SF_PRACH		Spreading factor for PRACH
slotFormatsCCPCH1	SCCPCHSlotFormat		Slot format for secondary CCPCH1
mcc	HEXSTRING		MCC
mnc	HEXSTRING		MNC
lac	OCTETSTRING		LAC
rac	OCTETSTRING		RAC
attFlag	INTEGER		Attach flag (as broadcasted in BCCH)
nmo	OCTETSTRING		Network mode of operation
ura_Identity	BITSTRING		URA Identity (3GPP 25.331 clause 10.3.2.6)
t3212	OCTETSTRING		T3212 value

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
cRNTI	C_RNTI		cell radio network temporary identity assigned to the UE under test, this initial value is for ts_SS_CreateCellFACH. (from 34.123-1)
uRNTI	U_RNTI		smc_Identity and s_RNTI
cellConfig	RB_ConfigType		Current configuration of the cell
dRX_CycleLength	DRX_CycleLengthStructure		To hold the 3 dRX_CycleLength
uL_ScramblingCode	UL_ScramblingCode		To hold the UL scrambling to be used in the cell
DL_DPCH_SHO	BOOLEAN		To be used in SHO (Active set update) test cases to indicate whether a DL DPCH is configured
UL_DPCH_SHO	BOOLEAN		To be used in SHO (Active set update) test cases to indicate whether a DL DPCH is configured
dl_DPCH_2ndScrCode	SecondaryScramblingCode		Secondary scrambling code for the DL DPCH
Detailed Comments :			

Structured Type Definition			
Type Name : DRX_CycleLengthStructure Encoding Variation : Comments : Structure taht contains CN DRX cycle length (CS and PS) and the UTRAN DRX Cycle length. This type is to be used in the CellInfoCfg in order to keep all DRX values.			
Element Name	Type Definition	Field Encoding	Comments
cN_CS_DRX_CycleLength	CN_DRX_CycleLengthCoefficient		
cN_PS_DRX_CycleLength	CN_DRX_CycleLengthCoefficient		
uTRAN_DRX_CycleLength	UTRAN_DRX_CycleLengthCoefficient		
Detailed Comments :			

Structured Type Definition			
Type Name : AuthenticationFailureParameter Encoding Variation : Comments : Authentication Failure Parameter (TLV) 3G TS 24.008 cl. 10.5.3.2.2			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100010'B for MM (22 hex)
iel	Length		'00110000'B for GMM (30 hex)
auts	BITSTRING[112]		M 1 octet AUTS, 14 octets
Detailed Comments :			

Structured Type Definition			
Type Name : AC_ReferenceNumber Encoding Variation : Comments : Cipher Algorithm 3GPP 24.008 / 10.5.5.19			
Element Name	Type Definition	Field Encoding	Comments
value	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : AUTN Encoding Variation : Comments : Authentication Parameter AUTN 3G TS 24.008 cl. 10.5.3.1.1			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100000'B
iel	Length		'10'O
aUTN	BITSTRING[128]		Authentication Parameter AUTN
Detailed Comments :			

Structured Type Definition			
Type Name : AccessPtName Encoding Variation : Comments : 24.007, section 10.5.6.1			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00101000'B (28hex)
length	Length		
accessPtName	AccessPtN		Access point name value 3–102 octets
Detailed Comments :			

Structured Type Definition			
Type Name : AttachResult Encoding Variation : Comments : Attach result 3GPP 24.008 / 10.5.5.1			
Element Name	Type Definition	Field Encoding	Comments
spare	B1		
result	B3		Attach result
Detailed Comments :			

Structured Type Definition			
Type Name : AttachType Encoding Variation : Comments : Attach type 3GPP 24.008 / 10.5.5.2			
Element Name	Type Definition	Field Encoding	Comments
for	B1		Follow-on request
type	B3		Type of attach
Detailed Comments :			

Structured Type Definition			
Type Name : AuthRspExt Encoding Variation : Comments : Authentication Response parameter (extension) 3G TS 24.008 cl. 10.5.3.2.1			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100001'B for MM (21 hex) '00101001'B for GMM (29 hex)
iel rES	Length BITSTRING[1..96]		Authentication Parameter RES
Detailed Comments :			

Structured Type Definition			
Type Name : AuthRsp_tv Encoding Variation : Comments : Authentication Response parameter (TV, 5 octets) 3G TS 24.008 cl. 10.5.3.2			
Element Name	Type Definition	Field Encoding	Comments
iei value	IEI8 BITSTRING[32]		'00100010'B (22 hex) Authentication Parameter RES
Detailed Comments :			

Structured Type Definition			
Type Name : AuthenticationParamterRAND Encoding Variation : Comments : Authentication Parameter RAND (TV, 17 octets) 3G TS 24.008 cl. 10.5.3.1			
Element Name	Type Definition	Field Encoding	Comments
iei randValue	IEI8 BITSTRING[128]		'00100001'B (21 hex) Authentication Parameter RAND value
Detailed Comments :			

Structured Type Definition			
Type Name : Bcap Encoding Variation : Comments : Bearer capability (CC information element) 3G TS 24.008 cl. 10.5.4.5			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '00000100'B
iel	Length		length
extBit3	B1		extension bit
radioChRequi	B2		radio channel requirements ue->n, GSM, octet 3
codingStd	B1		coding standard, '0'B, octet 3
transferMode	B1		transfer mode octet 3
itc	B3		information transfer capability, octet 3
bcap3aEtc1	Bcap3aEtc		octet 3a etc no.1
bcap3aEtc2	Bcap3aEtc		octet 3a etc no.2
bcap3aEtc3	Bcap3aEtc		octet 3a etc no.3
bcap3aEtc4	Bcap3aEtc		octet 3a etc no.4
bcap3aEtc5	Bcap3aEtc		octet 3a etc no.5
bcap3aEtc6	Bcap3aEtc		octet 3a etc no.6
extBit4	B1		extension bit, octet 4
compress	B1		compression, ue->network, octet 4
structure	B2		structure, '0, 3', octet 4
duplexMode	B1		duplex mode, '1'B, octet 4
cfg	B1		configuration, '0'B, octet 4
nirr	B1		negotiation of intermediate rate requested, GSM, octet 4
establish	B1		establishment, '0'B, octet 4
extBit5	B1		extension bit, octet 5
accessId	B2		access identify, '00'B, octet 5
rateAdapt	B2		rate adaption, octet 5
sacp	B3		signalling access protocol, '1 – 6', octet 5
extBit5a	B1		extension bit, octet 5a
OtherItc	B2		Other ITC , octet 5a
OtherRateAdapt	B2		Other Rate adaptation, octet5a
spare3	B3		spare bits – 3 bits
extBit5b	B1		extension bit, '1'B, octet 5b
rateAdaptHeader	B1		rate adaptation header, octet 5b
multiFrame	B1		Multi frame, octet 5b
mode	B1		Mode of operation, octet 5b
logLinkId	B1		logical link identifier negotiation, octet 5b

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
assignorAssignee	B1		assignor/assignee, octet 5b
inBandOutBand	B1		in band/out band negotiation, octet 5b
spare1	B1		spare bit – 1 bit
extBit6	B1		extension bit, octet 6
layer1Id	B2		Layer 1 identity, '01'B, octet 6
userInfoLayer1	B4		user information Layer 1 protocol, '0000'B, octet 6
syncAsync	B1		synchronous bit, octet 6
extBit6a	B1		extension bit, octet 6a
numStopBits	B1		number of stop bits, octet 6a
nego	B1		negotiation bit, '0'B, octet 6a
numDataBits	B1		number of data bits, octet 6a
userRate	B4		user rate, GSM, octet 6a
extBit6b	B1		extension bit, octet 6b
intermRate	B2		intermediate rate, octet 6b
nicTx	B1		network independent clock on transmission, GSM, octet 6b
nicRx	B1		network independent clock on reception, GSM, octet 6b
parity	B3		parity information, octet 6b
extBit6c	B1		extension bit, octet 6c
connectElem	B2		connection element, octet 6c
modemType	B5		modem type, octet 6c
extBit6d	B1		extension bit, octet 6d
OtherModemType	B2		Other Modem type, octet 6d
FixedNtwUserRate	B5		Fixed Network user rate, octet 6d
extBit6e	B1		extension bit, octet 6e
acceptChCoding	B4		acceptable channel coding, octet 6e
maxNumTrafficCh	B3		maximum number of traffic channel, octet 6e
extBit6f	B1		extension bit, octet 6f
ulMI	B3		User initiated modification indication, octet 6f
wAIUR	B4		wanted air interface user rate, octet 6f
extBit6g	B1		extension bit, octet 6g
acceptChCodingExt	B3		acceptable channel coding extended, octet 6g
asymInd	B2		asymmetry indication, octet 6g
spare2	B2		spare 2 bits , octet 6g

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
extBit7	B1		extension bit, octet 7
layer2id	B2		L2 identity, octet 7
userInfoLayer2	B5		user information L2 protocol, octet 7
Detailed Comments :			

Structured Type Definition			
Type Name : Bcap3aEtc			
Encoding Variation :			
Comments : Speech Versions preferences as supported by the EFR mobile – see 3G TS 24.008 cl. 10.5.4.5/octet 3a etc/"speech version indication"			
Element Name	Type Definition	Field Encoding	Comments
extBit	B1		extension bit ('0'B)
coding	B1		Octet a1, Coding ('0'B)
spare2	B2		Octet a1, Spare bits ('00'B)
speechVersion	B4		Octet a1, Speech version indication
Detailed Comments :			

Structured Type Definition			
Type Name : CC_Capabilities			
Encoding Variation :			
Comments : Call Control Capabilities 3G TS 24.008 cl. 10.5.4.5a			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '00010101'B
iel	Length		length
maxNumBearer	B4		maximum number o fudported bearer
spare2	B2		spare bits
pcp	B1		PCP
dtmf	B1		indication of supporting DTMF
spare4	B4		spare bits
maxNumSpeechBearer	B4		maximum number of speech bearers
Detailed Comments :			

Structured Type Definition			
Type Name : CDPN Encoding Variation : Comments : Called party BCD number (CC information element) 3G TS 24.008 cl. 10.5.4.7			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '01011110'B
iel	Length		length
typeOfNumPlan	TypeOfNumPlan		type of number and numbering plan identification
digits	OCTETSTRING[0..40]		BCD numbers
Detailed Comments :			

Structured Type Definition			
Type Name : CDPS Encoding Variation : Comments : Called party subaddress (CC information element) 3G TS cl. 10.5.4.8			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '01101101'B
iel	Length		length
subadrs	Subadrs		Subaddress
Detailed Comments :			

Structured Type Definition			
Type Name : CGPS Encoding Variation : Comments : Calling party subaddress (CC information element) 3G TS 24.008 cl. 10.5.4.10			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '01011101'B
iel	Length		length
subadrs	Subadrs		Subaddress
Detailed Comments :			

Structured Type Definition			
Type Name : CellIndependentInfo Encoding Variation : Comments : This structure contains relevant information independant from the cell			
Element Name	Type Definition	Field Encoding	Comments
cs_cipheringStarted	BOOLEAN		Set to TRUE when ciphering is started, to be initiated in Security Steps and used in RAB establishment Steps
ps_cipheringStarted	BOOLEAN		Set to TRUE when ciphering is started, to be initiated in Security Steps and used in RAB establishment Steps
recentSecureDomain	CN_DomainIdentity		the domain on which security was recently started, and hence the SRB are ciphered and Integrity protected with this domain.
dL_CipherMode	CipheringModeCommand		To hold the DL cipher mode to be used in RAB Steps.
uL_CipherMode	RB_ActivationTimeInfoList		To hold the UL cipher mode to be used in RAB Steps.
cipheringAlgorithmCapability	BITSTRING		BITSTRING that hold the ciphering algorithm capability supported by UE
integrityStarted	BOOLEAN		Set to TRUE when integrity is started
dL_Integrity	IntegrityProtectionModelInfo		To hold the DL integrity protection active during a test case
uL_Integrity	IntegrityProtActivationInfo		To hold the UL integrity protection active during a test case
dl_IntegrityCheckInfo	IntegrityCheckInfo		To hold the integrity information to be sent
start_CS	START_Value		To hold the START value for CS Domain
start_PS	START_Value		To hold the START value for PS Domain
Detailed Comments :			

Structured Type Definition			
Type Name : CellNotification Encoding Variation : Comments : Cell notification 3GPP 24.008 / 10.5.5.21			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'10001100'B (8C hex)
Detailed Comments :			

Structured Type Definition			
Type Name : CiphAlgorithm Encoding Variation : Comments : Cipher Algorithm 3GPP 24.008 / 10.5.5.3			
Element Name	Type Definition	Field Encoding	Comments
spare1	B1		
algorithm	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : CiphKeySeqNum Encoding Variation : Comments : Ciphering Key Sequence Number 3G TS 24.008 cl. 10.5.1.2			
Element Name	Type Definition	Field Encoding	Comments
spare1	B1		
keySeq	KeySeq		
Detailed Comments :			

Structured Type Definition			
Type Name : CiphKeySeqNum_tv			
Encoding Variation :			
Comments : Ciphering Key Sequence Number 3G TS 24.008 cl. 10.5.1.2			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI4		'1000'B
spare1	B1		
keySeq	KeySeq		
Detailed Comments :			

Structured Type Definition			
Type Name : Codec Encoding Variation : Comments : Codec 3G TS 24.008 cl. 10.5.4.32			
Element Name	Type Definition	Field Encoding	Comments
sysId	OCTETSTRING[1]		system identification
len	Length		length
bitMap1to8	BITSTRING[8]		codec bitmap bits 1–8
bitMap9to16	BITSTRING[8]		codec bitmap bits 9–16
Detailed Comments :			

Structured Type Definition			
Type Name : CodecList Encoding Variation : Comments : Supported Codec List 3G TS 24.008 cl. 10.5.3.32			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'01000000'B (40 hex)
iel	Length		length
codec1	Codec		Codec
codec2	Codec		Codec
codec3	Codec		Codec
codec4	Codec		Codec
codec5	Codec		Codec
Detailed Comments :			

Structured Type Definition			
Type Name : CodeWord Encoding Variation : Comments : Code word within an RList super field. Ref 3G TS 25.322 clause 9.2.2.11.6			
Element Name	Type Definition	Field Encoding	Comments
numberPart	CW_NumberPart		
statusInd	BITSTRING[1]		
Detailed Comments :			

Structured Type Definition			
Type Name : DRXparamter Encoding Variation : Comments : DRX paramter 3GPP 24.008 / 10.5.5.6			
Element Name	Type Definition	Field Encoding	Comments
splitPGcycleCode	B8		Split PG cycle code
cnDRXcoef	B4		CN specific DRX cycle length coefficient
splitOnCCCH	B1		Split on CCCCH
nonDRXtimer	B3		non-DRX timer
Detailed Comments :			

Structured Type Definition			
Type Name : DRXparamter_tv Encoding Variation : Comments : DRX paramter 3GPP 24.008 / 10.5.5.6			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100111'B (hex 27)
splitPGcycleCode	B8		Split PG cycle code
cnDRXcoef	B4		CN specific DRX cycle length coefficient
splitOnCCCCH	B1		Split on CCCCH
nonDRXtimer	B3		non-DRX timer
Detailed Comments :			

Structured Type Definition			
Type Name : DetachType Encoding Variation : Comments : Detach type 3GPP 24.008 / 10.5.5.5			
Element Name	Type Definition	Field Encoding	Comments
powOff	B1		
type	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : EmergNum Encoding Variation : Comments : Emergency Number 3G TS 24.008 cl. 10.5.3.13			
Element Name	Type Definition	Field Encoding	Comments
len	Length		length
emergServCat	EmergServCat		Emergency Service Category
digits	OCTETSTRING[0..10]		BCD numbers
Detailed Comments :			

Structured Type Definition			
Type Name : EmergNumList Encoding Variation : Comments : Emergency Number List 3G TS 24.008 cl. 10.5.3.13			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00110100'B (34 hex)
iel	Length		length
emergNum1	EmergNum		Emergency Number
emergNum2	EmergNum		Emergency Number
emergNum3	EmergNum		Emergency Number
emergNum4	EmergNum		Emergency Number
emergNum5	EmergNum		Emergency Number
Detailed Comments :			

Structured Type Definition			
Type Name : EmergServCat			
Encoding Variation :			
Comments : Emergency Service Category 3GPP 24.008 / 10.5.4.33			
Element Name	Type Definition	Field Encoding	Comments
spare	B3		Emergency Service Category value
value	B5		
Detailed Comments :			

Structured Type Definition			
Type Name : Facility Encoding Variation : Comments : Facility information element 3G TS 24.008 cl. 10.5.4.15			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '00011100'B
iel	Length		length
comps	OCTETSTRING		Component
Detailed Comments :			

Structured Type Definition			
Type Name : ForceToStandby Encoding Variation : Comments : Force to standby 3GPP 24.008 / 10.5.5.7			
Element Name	Type Definition	Field Encoding	Comments
spare	B1		
value	B3		Force to standby value
Detailed Comments :			

Structured Type Definition			
Type Name : GMM_AUTN Encoding Variation : Comments : Authentication Parameter AUTN– to be used in GMM constraints 3G TS 24.008 cl. 10.5.3.1.1			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00101000'B
iel	Length		'10'O
aUTN	BITSTRING[128]		Authentication Parameter AUTN
Detailed Comments :			

Structured Type Definition			
Type Name : GMM_Cause Encoding Variation : Comments : GMM cause 3GPP 24.008 / 10.5.5.14			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100101'B (25 hex)
value	B8		Cause value
Detailed Comments :			

Structured Type Definition			
Type Name : GMM_MS_Identity Encoding Variation : Comments : Mobile Identity 3G TS 24.008 cl. 10.5.1.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100011'B
iel	Length		
iDigit1	B4		1st identity digit
oddEvenInd	B1		Odd/even indicator
typeOfId	B3		Type of identity
otherDigits	OCTETSTRING[0..8]		Other identity digits
Detailed Comments : Maximum number of digits is 16 (IMEISV). Filler may be used.			

Structured Type Definition			
Type Name : GMM_MS_IdentityPTMSI Encoding Variation : Comments : Mobile Identity 3G TS 24.008 cl. 10.5.1.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00011000'B
iel	Length		
iDigit1	B4		1st identity digit
oddEvenInd	B1		Odd/even indicator
typeOfId	B3		Type of identity
otherDigits	OCTETSTRING[0..8]		Other identity digits
Detailed Comments : Maximum number of digits is 16 (IMEISV). Filler may be used.			

Structured Type Definition			
Type Name : GPRS_Timer Encoding Variation : Comments : GPRS timer 3GPP 24.008 / 10.5.7.3			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		00010111'B (17 hex)
unit	B3		Unit
value	B5		Timer value
Detailed Comments :			

Structured Type Definition			
Type Name : GPRS_Timer2 Encoding Variation : Comments : GPRS timer 3GPP 24.008 / 10.5.7.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00101010'B (2A hex)
iel	Length		length
unit	B3		Unit
value	B5		Timer value
Detailed Comments :			

Structured Type Definition			
Type Name : GPRS_Timer_v Encoding Variation : Comments : GPRS timer 3GPP 24.008 / 10.5.7.3			
Element Name	Type Definition	Field Encoding	Comments
unit	B3		Unit
value	B5		Timer value
Detailed Comments :			

Structured Type Definition			
Type Name : HLC Encoding Variation : Comments : High layer compatibility (CC information element) 3G TS 24.008 cl. 10.5.4.16, ITU Q.931			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '01111101'B
iel	Length		length
extBit3	B1		extension bit ('1'B)
codingStd	B2		coding standard
interpretation	B3		interpretation
presentModeProtocolProfile	B2		presentation method of protocol profile
extBit4	B1		extension bit, octet 4
hlcd	B7		high layer characteristics identification
extBit4a	B1		extension bit, '1'B, octet 4a
exteHlcd	B7		extended high layer characteristics identification
Detailed Comments :			

Structured Type Definition			
Type Name : IMEISVRequest Encoding Variation : Comments : IMEISV Request 3GPP 24.008 / 10.5.5.10			
Element Name	Type Definition	Field Encoding	Comments
spare1	B1		
value	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : LB_SetupRB_IE			
Encoding Variation :			
Comments : LB Setup RAB Subflow 3G TS 34.109 cl. 6.2			
Element Name	Type Definition	Field Encoding	Comments
rLC_SDU_Size	BITSTRING [16]		RLC SDU size
spare_2	BITSTRING [3]		
rB_Identity	BITSTRING[5]		
Detailed Comments :			

Structured Type Definition			
Type Name : LLC Encoding Variation : Comments : Low layer compatibility (CC information element) 3G TS 24.008 cl. 10.5.4.18 and ETS DE/SPS-5034-1 (update of ETS 300 102-1)			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '01111100'B
iel	Length		length
extBit3	B1		extension bit
codingStd	B2		coding standard, octet 3
itc	B5		information transfer capability, octet 3
extBit3a	B1		extension bit, octet 3a
negoInd	B1		negotiation indicator, octet 3a
spare6	B6		6 spare bits
extBit4	B1		extension bit, octet 4
transferMode	B2		transfer mode
infoTransferRate	B5		information transfer rate, octet 4
extBit4_1	B1		extension bit, octet 4.1
rateMultiplier	B7		rate multiplier, octet 4.1
extBit5	B1		extension bit, octet 5
layer1Id	B2		Layer 1 identity, '01'B, octet 5
userInfoLayer1	B5		user information Layer 1 protocol, '0000'B, octet 5
extBit5a	B1		extension bit, octet 5a
syncAsync	B1		synchronous bit, octet 5a
nego	B1		negotiation bit, octet 5a
userRate	B5		user rate, octet 5a
extBit5b1	B1		extension bit, octet 5b1
intermRate	B2		intermediate rate, octet 5b1
nicTx	B1		network independent clock on transmission, octet 5b1
nicRx	B1		network independent clock on reception, octet 5b1
flowCtrlTx	B1		flow control on transmission, octet 5b1
flowCtrlRx	B1		flow control on reception, octet 5b1
spare1	B1		1 spare bit, '0'B, octet 5b1
extBit5b2	B1		extension bit, octet 5b2
rateAdaptHeader	B1		rate adaptation header, octet 5b2
multiFrame	B1		Multi frame, octet 5b2
mode	B1		Mode of operation, octet 5b2
logLinkId	B1		logical link identifier negotiation, octet 5b2
assignorAssignee	B1		assignor/assignee, octet 5b2

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
inBandOutBand	B1		in band/out band negotiation, octet 5b2
spare1_5b2	B1		sapre bit – 1 bit, octet 5b2
extBit5c	B1		extension bit, octet 5c
numStopBits	B2		number of stop bits, octet 5c
numDataBits	B2		number of data bits, octet 5c
parity	B3		parity, octet 5c
extBit5d	B1		extension bit, octet 5d
duplexMode	B1		duplex mode, octet 5d
modemType	B6		modem type, octet 5d
extBit6	B1		extension bit, octet 6
layer2id	B2		L2 identity, octet 6
userInfoLayer2	B5		user information L2 protocol, octet 6
extBit6a1	B1		extension bit, octet 6a1
modeLayer2	B2		mode, octet 6a1
spare3	B3		spare bits , '000'B, octet 6a1
q933	B2		Q.933 use, octet 6a1
extBit6a2	B1		extension bit, octet 6a2
userSpecifLayer2	B7		user specified layer 2 protocol information, octet 6a2
extBit6b	B1		extension bit, octet 6b
windowSize	B7		window size, octet 6b
extBit7	B1		extension bit, octet 7
layer3id	B2		L3 identity, octet 7
userInfoLayer3	B5		user information L3 protocol, octet 7
extBit7a1	B1		extension bit, octet 7a2
OptionUserSpecifLayer3	B7		user specified layer 3 protocol information, octet 7a2
extBit7a2	B1		extension bit, '1'B, octet 7a2
modeLayer3	B2		mode, octet 7a2
spare5	B5		spare bits , '00000'B, octet 7a2
extb7b	B1		extension bit, octet 7b
spare3_7b	B3		spare bits , '000'B, octet 7b
defaultPacketSize	B4		default packet size, octet 7b
extBit7c	B1		extension bit, '1'B, octet 7c
packetWindowSize	B7		packet window size, octet 7bc
extBit7a3	B1		extension bit, octet 7a3
spare3_7a3	B3		3 spare bits

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
addLayer3ProtocolInfo	B4		additional layer 3 protocol information (most significant bits), octet 7a3
extBit7a4	B1		extension bit, octet 7a4
spare3_7a4	B3		3 spare bits
addLayer3ProtocolInfoL	B4		additional layer 3 protocol information (least significant bits), octet 7a4
Detailed Comments :			

Structured Type Definition			
Type Name : LLC_SAPI_v Encoding Variation : Comments : 24.007, clause 10.5.6.9			
Element Name	Type Definition	Field Encoding	Comments
spare	B4		
ILC_SAPI_Value	B4		LLC SAPI Value
Detailed Comments :			

Structured Type Definition			
Type Name : LenInd15AndE_Bit Encoding Variation : Comments : This type is used to represent a 15 bit length indicator and an extension bit, used in both AMD and UMD PDUs. Ref 3G TS 25.322 clauses 9.2.1.3 and 9.2.1.4.			
Element Name	Type Definition	Field Encoding	Comments
lenInd	LenInd15		
extBit	ExtBit		
Detailed Comments :			

Structured Type Definition			
Type Name : LenInd7AndE_Bit Encoding Variation : Comments : This type is used to represent a 7 bit length indicator and an extension bit, used in both AMD and UMD PDUs. Ref 3G TS 25.322 clauses 9.2.1.3 and 9.2.1.4.			
Element Name	Type Definition	Field Encoding	Comments
lenInd	LenInd7		
extBit	ExtBit		
Detailed Comments :			

Structured Type Definition

Type Name : LenInds

Encoding Variation :

Comments : This type is used to represent a Length Indicator group.

Note that this type definitions supports up to 5 seven bit length indicators, or up to 3 fifteen bit length indicators. If any test cases require more LIs than this, the test suite will need to be updated.

LI groups using this type definition shall never contain both 15 and 7 bit length indicators.

When transmitting an AMD PDU, the TTCN author is responsible for ensuring that the PDU either:

1. Contains no length indicators, by using `c_LIsEmpty`, and setting the `headerExt` field in the `AMD_PDU` constraint to `tsc_HE_Data`.
2. Contains 1 to 5 seven bit length indicators, by using one of the constraints `c_LIs1_7BitLI`, `c_LIs2_7BitLIs`, `c_LIs3_7BitLIs`, or `c_LIs5_7BitLIs` and setting the `headerExt` field in the `AMD_PDU` to `tsc_HE_LI_AndE_Bit`. Note that use of these constraints ensures that that the fields `lenInd15_1`, `lenInd15_2`, and `lenInd15_3` are omitted.
3. Contains 1 to 3 fifteen bit length indicators, by using one of the constraints `c_LIs1_15BitLI`, `c_LIs2_15BitLIs`, or `c_LIs3_15BitLIs`, and setting the `headerExt` field in the `AMD_PDU` to `tsc_HE_LI_AndE_Bit`. Note that use of these constraints ensures that that the fields `lenInd7_1`, `lenInd7_2`, and `lenInd7_3` are omitted.

When receiving an AMD PDU, the SS is responsible for the following:

1. Examining the `headerExt` field in the `AMD_PDU` header to decide if any length indicators are present.
2. Deciding whether 7 or 15 bit length indicators are being used for received PDUs based on the currently configured RLC PDU size.
3. Examining the E-bit following each LI that is present to determine if any further LIs are present. If more than 3 resp. 5 LIs are present, a test case error shall be reported, and the test suite will need to be updated to support more than 3 resp. 5 length indicators.
4. Passing the received LI group back to the TTCN in such a way that it will match one of the following constraints:

`c_LIsEmpty`
`c_LIs1_7BitLI`
`c_LIs2_7BitLIs`
`c_LIs3_7BitLIs`
`c_LIs5_7BitLIs`
`c_LIs1_15BitLI`
`c_LIs2_15BitLIs`
`c_LIs3_15BitLIs`

Reference 3G TS 25.322 clause 9.2.2.8

Element Name	Type Definition	Field Encoding	Comments
<code>lenInd7_1</code>	<code>LenInd7AndE_Bit</code>		
<code>lenInd7_2</code>	<code>LenInd7AndE_Bit</code>		
<code>lenInd7_3</code>	<code>LenInd7AndE_Bit</code>		
<code>lenInd7_4</code>	<code>LenInd7AndE_Bit</code>		
<code>lenInd7_5</code>	<code>LenInd7AndE_Bit</code>		
<code>lenInd15_1</code>	<code>LenInd15AndE_Bit</code>		

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Structured Type Definition			
Element Name	Type Definition	Field Encoding	Comments
lenInd15_2	LenInd15AndE_Bit		
lenInd15_3	LenInd15AndE_Bit		
Detailed Comments :			

Structured Type Definition			
Type Name : LocAreald_v Encoding Variation : Comments : Location Area Identification Value 3G TS 24.008 cl. 10.5.1.3			
Element Name	Type Definition	Field Encoding	Comments
plmn	OCTETSTRING[3]		MCC + MNC 3 digits each
lac	OCTETSTRING[2]		LAC
Detailed Comments :			

Structured Type Definition			
Type Name : LocUpdType Encoding Variation : Comments : Location Updating Type 3G TS 24.008 cl. 10.5.3.5			
Element Name	Type Definition	Field Encoding	Comments
for	B1		Follow-On Request
spare1	B1		
IUT	B2		Location Updating Type
Detailed Comments :			

Structured Type Definition			
Type Name : MM_MS_Identity Encoding Variation : Comments : Mobile Identity 3G TS 24.008 cl. 10.5.1.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00010111'B
iel	Length		
iDigit1	B4		1st identity digit
oddEvenInd	B1		Odd/even indicator
typeOfId	B3		Type of identity
otherDigits	OCTETSTRING[0..8]		Other identity digits
Detailed Comments : Maximum number of digits is 16 (IMEISV). Filler may be used.			

Structured Type Definition			
Type Name : MSRadioAccessCap_Iv Encoding Variation : Comments : MS radio access capability 3GPP 24.008 / 10.5.5.12a			
Element Name	Type Definition	Field Encoding	Comments
iel value	Length OCTETSTRING[0..50]		MS radio access capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Definition			
Type Name : MS_Clsmk1 Encoding Variation : Comments : Mobile Station Classmark 1 3G TS 24.008 cl. 10.5.1.5			
Element Name	Type Definition	Field Encoding	Comments
spare1	B1		Spare bit
revLvl	B2		Revision Level
eSIND	B1		Early Sending Indication
a5_1	B1		Algorithm A5/1 supported
rFPwrCap	B3		RF Power Capability
Detailed Comments :			

Structured Type Definition			
Type Name : MS_Clsmk2 Encoding Variation : Comments : Mobile Station Classmark 2 3G TS 24.008 cl. 10.5.1.6			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		
iel	Length		
spare1_1	B1		Spare bit
revLvl	B2		Revision Level
eSIND	B1		Early Sending Indication
a5_1	B1		Algorithm A5/1 Support
rFPwrCap	B3		RF Power Capability
spare1_2	B1		Spare bit
pSCap	B1		Pseudo Synchronisation Capability
sSSI	B2		SS Screen Indicator
sMCap	B1		Short Message Capability
vBS	B1		VBS Capability
VGCS	B1		VGCS Capability
fC	B1		Frequency Capability
cM3	B1		Classmark 3 Indicator
spare1_3	B1		Spare bit
ICSVa	B1		LCS VA Capability
uCS2	B1		UCS2 Encoding Support
soLSA	B1		SoLSA Support
cMSP	B1		CM Service Prompt Support
a5_3	B1		Algorithm A5/3 Support
a5_2	B1		Algorithm A5/2 Support
Detailed Comments :			

Structured Type Definition			
Type Name : MS_Clsmk2_lv Encoding Variation : Comments : Mobile Station Classmark 2 3G TS 24.008 cl. 10.5.1.6			
Element Name	Type Definition	Field Encoding	Comments
iel	Length		
spare1_1	B1		Spare bit
revLvl	B2		Revision Level
eSIND	B1		Early Sending Indication
a5_1	B1		Algorithm A5/1 Support
rFPwrCap	B3		RF Power Capability
spare1_2	B1		Spare bit
pSCap	B1		Pseudo Synchronisation Capability
sSSI	B2		SS Screen Indicator
sMCap	B1		Short Message Capability
vBS	B1		VBS Capability
vGCS	B1		VGCS Capability
fC	B1		Frequency Capability
cM3	B1		Classmark 3 Indicator
spare1_3	B1		Spare bit
ICSVA	B1		LCS VA Capability
uCS2	B1		UCS2 Encoding Support
soLSA	B1		SoLSA Support
cMSP	B1		CM Service Prompt Support
a5_3	B1		Algorithm A5/3 Support
a5_2	B1		Algorithm A5/2 Support
Detailed Comments :			

Structured Type Definition			
Type Name : MS_Identity_lv Encoding Variation : Comments : Mobile Identity LV 3G TS 24.008 cl. 10.5.1.4			
Element Name	Type Definition	Field Encoding	Comments
iel	Length		
iDigit1	B4		1st identity digit
oddEvenInd	B1		Odd/even indicator
typeOfId	B3		Type of identity
otherDigits	OCTETSTRING[0..8]		Other identity digits
Detailed Comments : Maximum number of digits is 16 (IMEISV). Filler may be used.			

Structured Type Definition			
Type Name : MS_NetworkCap_lv Encoding Variation : Comments : MS network capabilityt LV 3GPP 24.008 / 10.5.5.12			
Element Name	Type Definition	Field Encoding	Comments
iel value	Length OCTETSTRING[0..8]		MS network capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Definition			
Type Name : MS_NetworkCap_tlv Encoding Variation : Comments : MS network capabilityt T LV 3GPP 24.008 / 10.5.5.12			
Element Name	Type Definition	Field Encoding	Comments
iei iel value	IEI8 Length OCTETSTRING[0..8]		'00110001'B (hex 31) MS network capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Definition			
Type Name : NSAPI_v Encoding Variation : Comments : 24.007, clause 10.5.6.2			
Element Name	Type Definition	Field Encoding	Comments
spare nSAPI_Value	B4 B4		NSAPI value
Detailed Comments :			

Structured Type Definition			
Type Name : NtwFeatureSupport_tv			
Encoding Variation :			
Comments : Network Feature Support 3G TS 24.008 cl. 10.5.5.23			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI4		'1011'B (B– hex)
ICS_MOLR	B1		
spare3	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : PDP_ContextStatus			
Encoding Variation :			
Comments : PDP_ContextStatus 3G TS 24.008 cl. 10.5.7.1			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00110010'B
iel	Length		
nSAPI	BITSTRING[16]		
Detailed Comments :			

Structured Type Definition			
Type Name : PLMN_List Encoding Variation : Comments : PLMN list 3G TS 24.008 cl. 10.5.1.13			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'01001010"B
iel	Length		
plmn1	OCTETSTRING[3]		PLMN 1
plmn2	OCTETSTRING[3]		PLMN 2
plmn3	OCTETSTRING[3]		PLMN 3
plmn4	OCTETSTRING[3]		PLMN 4
plmn5	OCTETSTRING[3]		PLMN 5
Detailed Comments :			

Structured Type Definition			
Type Name : PS_LCS_Capability Encoding Variation : Comments : PS LCS Capability 3GPP 24.008 / 10.5.5.22			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00110011'B (33 hex)
iel	Length		'01'O
spare	B3		
oTD_A	B1		
oTD_B	B1		
gPS_A	B1		
gPS_B	B1		
gPS_C	B1		
Detailed Comments :			

Structured Type Definition			
Type Name : PTMSI_Signature Encoding Variation : Comments : P-TMSI signature 3GPP 24.008 / 10.5.5.8			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00011001'B (19 hex)
value	OCTETSTRING[3]		P-TMSI signature value
Detailed Comments :			

Structured Type Definition			
Type Name : PTMSI_Signature_tlv Encoding Variation : Comments : P-TMSI signature 3GPP 24.008 / 10.5.5.8			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00011001'B (19 hex)
iel	Length		
value	OCTETSTRING[3]		P-TMSI signature value
Detailed Comments :			

Structured Type Definition			
Type Name : PktDataProtoAddr_Iv Encoding Variation : Comments : 24.007, clause 10.5.6.4			
Element Name	Type Definition	Field Encoding	Comments
length	Length		
spare	B4		
pDP_TypeOrg	B4		PDP type organisation
pDP_TypeNo	PDP_TypeNo		PDP type number
addrInfo	AddressInfo		Address Information
Detailed Comments :			

Structured Type Definition			
Type Name : ProtoCfgOpt Encoding Variation : Comments : 24.007, clause 10.5.6.3			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00101000'B (27hex)
length	Length		
ext	B1		extension bit
spare	B4		
configprotocol	B3		configuration protocol
protocoldContents	ProtoldContents		information related to additional external protocols
Detailed Comments :			

Structured Type Definition			
Type Name : QualityOfService_lv Encoding Variation : Comments : 24.008, clause 10.5.6.5			
Element Name	Type Definition	Field Encoding	Comments
length	Length		
spare	B2		
dlyClass	B3		Delay Class
reliabilityClass	B3		Reliability Class
peakThroughput	B4		Peak Throughput
spare1	B1		
precedenceClass	B3		Precedence Class
spare2	B3		
meanThroughput	B5		Mean Throughput
trafficClass	B3		Traffic Class
deliveryOrder	B2		Delivery Order
deliveryErrorSDU	B3		Delivery of erroneous SDU
maxSDUSize	MaxSDU_Size		Maximum SDU Size
maxBitRateUplink	MaxBitRate		Maximum Bit Rate for Uplink
maxBitRateDnlink	MaxBitRate		Maximum Bit Rate for Downlink
residualBER	B4		Residual BER
sduErrRatio	B4		SDU Error Ratio
transDly	B6		Transfer Delay
trafficHandpro	B2		Traffic Handling Priority
bitRateUplink	BitRate		Guaranteed bit rate for uplink
bitRateDnlink	BitRate		Guaranteed bit rate for downlink
spare3	B3		
signallingInd	B1		Signalling Indication
srcStatsDescr	B4		Source Statistics Descriptor
maxBitRateDnlinkExt	BitRate		Maximum bit rate for downlink (extended)
bitRateDnlinkExt	BitRate		Guaranteed bit rate for downlink (extended)
Detailed Comments :			

Structured Type Definition			
Type Name : RAI_v Encoding Variation : Comments : Routing Area Identification 3GPP 24.008 / 10.5.5.15			
Element Name	Type Definition	Field Encoding	Comments
plmn	OCTETSTRING[3]		MCC + MNC 3 digits each
lac	OCTETSTRING[2]		LAC
rac	OCTETSTRING[1]		RAC
Detailed Comments :			

Structured Type Definition			
Type Name : RadioPriority_v			
Encoding Variation :			
Comments : Radio priority 3GPP 24.008 / 10.5.7.2			
Element Name	Type Definition	Field Encoding	Comments
spare	B1		Radio priority value
value	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : RadioPriority2_v			
Encoding Variation :			
Comments : Radio priority 2 3GPP 24.008 / 10.5.7.5			
Element Name	Type Definition	Field Encoding	Comments
spare	B1		Radio priority value
value	B3		
Detailed Comments :			

Structured Type Definition			
Type Name : ReceiveN_PDU_Numbers_tlv			
Encoding Variation :			
Comments : Receive N-PDU Numbers list 3GPP 24.008 / 10.5.5.11			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		'00100110'B (hex 26)
iel	Length		
value	OCTETSTRING[0..17]		MS network capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Definition			
Type Name : RepeatInd Encoding Variation : Comments : Repeat indicator 3G TS 24.008 cl. 10.5.4.22			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI4		
repeatInd	B4		
Detailed Comments :			

Structured Type Definition			
Type Name : ResAndSUFIs Encoding Variation : Comments : This type is used as type of the RETURN value of TSO o_SUFI_Handler which provides: – a BOOLEAN result – a SUFI List of type SuperFields			
Element Name	Type Definition	Field Encoding	Comments
result	BOOLEAN		1
sUFI_ListRec	SuperFields		2
Detailed Comments : 1. overall result of the operation of TSO o_SUFI_Handler 2. Super Fields received and transferred into the SuperFields structure according to the rules specified in TSO o_SUFI_Handler			

Structured Type Definition			
Type Name : SM_Cause_v Encoding Variation : Comments : Ref 24.008, 10.5.6.6			
Element Name	Type Definition	Field Encoding	Comments
causeValue	CauseValue		
Detailed Comments :			

Structured Type Definition			
Type Name : SNiLiPair Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
sNi	AM_SeqNum		
li	SUFI_ListLi		
Detailed Comments :			

Structured Type Definition			
Type Name : SS_VersionInd Encoding Variation : Comments : SS version indicator 3G TS 24.008 cl. 10.5.4.24			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '01111111'B
iel	Length		length
sS_VersionInfo	OCTETSTRING [1]		ss version information 1.
Detailed Comments : 1. Usually this IE has only one octet of content. Exact definition see TS 24.080			

Structured Type Definition			
Type Name : SUFI_Ack Encoding Variation : Comments : Acknowledgement super field. Ref 3G TS 25.322 clause 9.2.2.11.2. The ACK SUFI shall always be placed as the last SUFI if it is included in a STATUS PDU.			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_Ack
lsn	AM_SeqNum		1.
Detailed Comments : 1. Acknowledges the reception of all PDUs with sequence numbers < LSN that are not indicated to be erroneous in earlier parts of the STATUS PDU.			

Structured Type Definition			
Type Name : SUFI_Bitmap Encoding Variation : Comments : Bitmap super field. Ref 3G TS 25.322 clause 9.2.2.11.5			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_Bitmap
len	BitmapLen		1.
fsn	AM_SeqNum		2.
bitmap	Bitmap		3.
Detailed Comments : 1. The size of the bitmap in octets = len+1. len='0000'B means that the bitmap is one octet, and len='1111'B means that the bitmap is the maximum size of 16 octets 2. The sequence number for the first bit in the bitmap. 3. Status of the SNs in the interval [FSN, FSN + (len + 1) * 8 -1] where each bit_position can take on the following values:- * '1'B indicates that FSN + bit_position has been correctly received * '0'B indicates that FSN + bit_position has not been correctly received			

Structured Type Definition			
Type Name : SUFI_List Encoding Variation : Comments : List super field. Ref 3G TS 25.322 clause 9.2.2.11.4 This type definition assumes that a maximum of 3 (SNI, Li) pairs will be required for RLC test purposes.			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_List
len	LIST_Len		1.
sN1L1	SNiLiPair		2.
sN2L2	SNiLiPair		2.
sN3L3	SNiLiPair		2.
Detailed Comments : 1. The number of (SNI, Li) pairs in the super field. 2. SNI: Sequence number of PDU which was not correctly received; Li: The number of consecutive PDUs not correctly received following PDU with sequence number SNI.			

Structured Type Definition			
Type Name : SUFI_MRW Encoding Variation : Comments : Move receiving window super field. Ref 3G TS 25.322 clause 9.2.2.11.8 This type definition assumes that a maximum of three SN_MRWi will be required for RLC testing.			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_MRW
len	MRW_Len		1.
sN_MRW1	SUFI_SN_MRWi		2.
sN_MRW2	SUFI_SN_MRWi		2.
sN_MRW3	SUFI_SN_MRWi		2.
nLength	N_Length		3.
Detailed Comments : 1. The number of SN_MRWi fields in the super-field. 2. Each SN_MRWi is used to indicate the end of each discarded SDU. SN_MRWi is the sequence number of the PDU that contains the LI of the i:th discarded SDU. 3. nLength is used together with SN_MRW_Length to indicate the end of the last discarded SDU			

Structured Type Definition			
Type Name : SUFI_MRW_ACK Encoding Variation : Comments : Move receiving window acknowledgement super field. Ref 3G TS 25.322 clause 9.2.2.11.7			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_MRW_ACK
n	N_Length		1.
sN_ACK	AM_SeqNum		2.
Detailed Comments : 1. The N field shall be set equal to the N_Length field in the received MRW SUFI if the SN_ACK field is equal to the SN_MRW_Length field. Otherwise N shall be set to 0. 2. The SN_ACK field indicates the updated value of VR(R) after the reception of the MRW SUFI.			

Structured Type Definition			
Type Name : SUFI_NoMore			
Encoding Variation :			
Comments : No more data super field. Ref 3G TS 25.322 clause 9.2.2.11.1			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_NoMore
Detailed Comments :			

Structured Type Definition			
Type Name : SUFI_Params			
Encoding Variation :			
Comments : This type is a list of parameters to be used as input for TSO o_SUFI_Handler which treats a HEXSTRING containing received SUFIs. Refer to this TSO and the description of the test methodology.			
Element Name	Type Definition	Field Encoding	Comments
LB	AM_SeqNum		1
UB	AM_SeqNum		1
WSN_presence	BOOLEAN		1
MRW_presence	BOOLEAN		1
Nack1	AM_SeqNum		1
Nack2	AM_SeqNum		1
Nack3	AM_SeqNum		1
Detailed Comments : 1. ...			

Structured Type Definition			
Type Name : SUFI_RList			
Encoding Variation :			
Comments : Relative list super field. Ref 3G TS 25.322 clause 9.2.2.11.6 This type definition assumes that a maximum of three codewords will be required for RLC testing			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always tsc_SUFI_RList
len	RLIST_Len		1.
fsn	AM_SeqNum		2.
CW1	CodeWord		3.
CW2	CodeWord		3.
CW3	CodeWord		3.
Detailed Comments : 1. The number of codewords in the super-field 2. The sequence number of the first erroneous PDU in the RLIST. Note that len = '0000'B means that only FSN is present in the SUFI. 3. Each CW consists of 4 bits where the first three bits are part of a number, and the last bit is a status indicator. see 3G TS 25.25.322 clause 9.2.2.11.6 for a detailed description.			

Structured Type Definition			
Type Name : SUFI_WindowSize Encoding Variation : Comments : Window size super field. Ref 3G TS 25.322 clause 9.2.2.11.3			
Element Name	Type Definition	Field Encoding	Comments
type	SUFI_Type		Always
wsn	BITSTRING[12]		tsc_SUFI_WindowSize 1.
Detailed Comments : 1. The allowed Tx window size to be used by the transmitter.			

Structured Type Definition			
Type Name : ServiceType_v Encoding Variation : Comments : Service type 3GPP 24.008 / 10.5.5.20			
Element Name	Type Definition	Field Encoding	Comments
spare1	B1		
type	B3		type
Detailed Comments :			

Structured Type Definition			
Type Name : StreamId Encoding Variation : Comments : stream identifier 3G TS 24.008 cl. 10.5.4.28			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier '00101101'B
iel	Length		length
val	B8		stream identifier value
Detailed Comments :			

Structured Type Definition			
Type Name : Subadrs Encoding Variation : Comments : Subaddress 3G TS 24.008 cl. 10.5.4.8, 10.5.4.10, 10.5.4.14			
Element Name	Type Definition	Field Encoding	Comments
extBit	B1		extension bit
typrOfSubadrs	B3		Type of subaddress
oddEven	B1		odd/even indicator
spare3	B3		3 spare bits
subadrsInfo	OCTETSTRING [0..20]		subaddress information
Detailed Comments :			

Structured Type Definition			
Type Name : SuperFields Encoding Variation : Comments : This type is used to represent the set of super-fields within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.1.5.			
Element Name	Type Definition	Field Encoding	Comments
windowSize	SUFI_WindowSize		1
list	SUFI_List		1
rList	SUFI_RList		1
bitmap	SUFI_Bitmap		1
mRW	SUFI_MRW		1
mRW_Ack	SUFI_MRW_ACK		1
noMore	SUFI_NoMore		2
ack	SUFI_Ack		2, 3
Detailed Comments : 1. These super fields may arrive in any order, and may or may not be present. This type definition only supports a single super-field, followed by either a NO_MORE SUFI, or an ACK SUFI. 2. The NO_MORE SUFI, and the ACK SUFI are mutually exclusive, and should never both be present in the same STATUS PDU. 3. The ACK SUFI is used to acknowledge reception of all PDUs up to LSN, EXCEPT for any PDUs indicated as incorrectly received in the previous SUFIs.			

Structured Type Definition			
Type Name : TI Encoding Variation : Comments : Transaction identifier 3G TS 24.007 cl. 11.2.3.1.3			
Element Name	Type Definition	Field Encoding	Comments
tiFlag	B1		Flag
tiVal	B3		TIO
Detailed Comments :			

Structured Type Definition			
Type Name : TMSI_Status Encoding Variation : Comments : TMSI status 3GPP 24.008 cl. 10.5.5.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI4		'1001'B
spare3	B3		
flag	B1		Flag
Detailed Comments :			

Structured Type Definition			
Type Name : TearDwnInd_tv Encoding Variation : Comments : Ref 24.008, clause 10.5.6.10			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI4		'1001'B (9 hex)
spare	B3		
tdiflag	B1		TDI Flag
Detailed Comments :			

Structured Type Definition			
Type Name : TypeOfNumPlan Encoding Variation : Comments : Type of number and numbering plan 3G TS 24.008 cl.10.5.4.7, 10.5.4.9, 10.5.4.13			
Element Name	Type Definition	Field Encoding	Comments
extBit	B1		extension bit
typeOfNum	B3		Type of number
numbPlanId	B4		Numbering plan id.
Detailed Comments :			

Structured Type Definition			
Type Name : UE_TestLoopMode1LB_Setup Encoding Variation : Comments : UE Test Loop Mode 1 LB Setup 3G TS 34.109 cl. 6.2			
Element Name	Type Definition	Field Encoding	Comments
iel	Length		length
IB_SetupRB_IE1	LB_SetupRB_IE		LB Setup RB IE #1
IB_SetupRB_IE2	LB_SetupRB_IE		LB Setup RB IE #2
IB_SetupRB_IE3	LB_SetupRB_IE		LB Setup RB IE #3
IB_SetupRB_IE4	LB_SetupRB_IE		LB Setup RB IE #4
IB_SetupRB_IE5	LB_SetupRB_IE		LB Setup RB IE #5
Detailed Comments : The maximum number of LB entities in the LB setup list is less than or equal to 5.			

Structured Type Definition			
Type Name : UpdateResult_v Encoding Variation : Comments : Update result 3GPP 24.008 / 10.5.5.17			
Element Name	Type Definition	Field Encoding	Comments
spare	B1		
value	B3		Update result value
Detailed Comments :			

Structured Type Definition			
Type Name : UpdateType_v Encoding Variation : Comments : Update result 3GPP 24.008 / 10.5.5.18			
Element Name	Type Definition	Field Encoding	Comments
for	B1		Follow-on request
value	B3		Update type value
Detailed Comments :			

Structured Type Definition			
Type Name : UserUser Encoding Variation : Comments : User-user 3G TS 24.008 cl. 10.5.4.25			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI8		information element identifier 01111110'B
iel	Length		length
userUserProtocolDiscr	B8		user-user protocol discriminator
userUserInfo	OCTETSTRING [1..128]		user user information
Detailed Comments : In SETUP, ALERTING, CONNECT, DISCONNECT, RELEASE and RELEASE COMPLETE messages the userUserInfo length is of 0 – 32 bytes. In USER INFORMATION messages the userUserInfo length is of 1 – 128.			

Structured Type Definition			
Type Name : RAB_HSDPA_Info Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
receivingWindowSize	ReceivingWindowSize		DL RLC window
transmissionWindowSize	TransmissionWindowSize		UL RLC window
Detailed Comments :			

Structured Type Definition			
Type Name : HSDPA_ConfigType Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
hRNTI	H_RNTI		
numberOfProcesses	INTEGER		
phyLayCategory	HSDSCH_physical_layer_category		
hs_SCCH_TxPo	DL_TxPower		
ul_DataRate	UL_DataRate		
tfrC_ConfigType	TFRC_ConfigType		
modulationScheme	ModulationScheme		1.
channelisationCodeOffset	INTEGER		1.
noOfChannelisatonCodes	INTEGER		1.
tbSizeIndexOnHS_SCCH	INTEGER		1.
minimumInterTTIinterval	INTEGER		1.
redundancyVersion	INTEGER		1.
hs_PDSCH_TxPower	DL_TxPower		1.
maxSDU_Size	INTEGER		
cqi_RepetitionFactor	CQI_RepetitionFactor		
ackNackRepetitionFactor	ACK_NACK_repetitionFactor		
Detailed Comments : 1. This IE's are applicable only in case of Explicit Configuration of TFRC selection			

ASN.1 Type Definition	
Type Name : CellConfiguration Encoding Variation : Comments :	
Type Definition	
ENUMERATED { cell_EFR(0), cell_AMR(1) -- TBD }	
Detailed Comments :	

ASN.1 Type Definition	
Type Name : GSM_GPRSConfiguration Encoding Variation : Comments :	
Type Definition	
ENUMERATED { gsmonly(0), gprs(1) }	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: GPRSCellConfiguration
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { bcch(0), pbcch(1) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SI2quaterConfiguration
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { nosi2quater(0), si2quater(1), si2ter(2), si2terand2quater(3) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PSI5Configuration
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { nopsi5(0), psi5(1) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RB_ConfigType
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { cell_NotConfigured (0), -- Configurations on DPCH cell_DCH_StandAloneSRB_NoConn (1), cell_NoDPCH (2), cell_DCH_StandAloneSRB (3), cell_DCH_Speech (4), cell_DCH_64kCS_RAB_SRB (5), cell_DCH_57_6kCS_RAB_SRB (6), cell_DCH_64kPS_RAB_SRB (7), cell_RLC_DCH_AM_RAB_15Lis (8), cell_RLC_DCH_AM_RAB_7Lis (9), cell_RLC_DCH_UM_RAB_15Lis (10), cell_RLC_DCH_UM_RAB_7Lis (11), cell_PDCP_AM_RAB (12), cell_PDCP_UM_RAB (13), cell_PDCP_AM_UM_RAB (14), cell_DCH_MAC_SRB_NoConn (15), cell_DCH_MAC_SRB (16), cell_DCH_2AM_PS (17), -- Configurations on FACH cell_FACH_NoConn (18), cell_FACH (19), cell_FACH_NoDedicated (20), cell_FACH_PS (21), cell_FACH_BMC (22), cell_FACH_BMC_NoConn (23), cell_FACH_2_PRACH_NoConn (24), --no RAB cell_FACH_2_PRACH (25), -- no RAB cell_FACH_2_SCCPCH_NoConn (26), --used in BMC cell_FACH_2_SCCPCH (27), --Used in BMC cell_FACH_MAC_SRB_NoConn (28), cell_FACH_MAC_SRB (29), cell_FACH_MAC_SRB0_NoConn (30), cell_FACH_MAC_SRB0 (31), -- Configurations for RAB test cases -- for these configurations Security step does not handle RAB established situation, as in RAB test procedure -- Security procedure is called before RAB establishment cell_FACH_2SCCPCH_StandAlonePCH_NoConn (32), cell_FACH_2SCCPCH_StandAlonePCH (33), cell_FACH_2SCCPCH_StandAlonePCH_PS (34), cell_Two_DTCH (35), cell_Four_DTCH_CS (36), cell_Two_DTCH_CS_PS (37), cell_Four_DTCH_CS_PS (38), cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn (39), cell_FACH_3_SCCPCH_4_FACH_Cnfg1 (40), cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn (41), cell_FACH_3_SCCPCH_3_FACH_CTCH (42), cell_Two_DTCH_PS_CS (43), cell_Four_DTCH_PS_CS (44) , cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn (45), cell_FACH_3_SCCPCH_4_FACH_Cnfg2 (46), cell_DCH_2_PS_Call(47), -- Configurations for DSCH RAB test cases cell_DCH_DSCH_PS (48), cell_DCH_DSCH_CS_PS (49), cell_FACH_2SCCPCH_StandAlonePCH_PS_2a(50), </pre>	

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ASN.1 Type Definition	
Type Definition	
<pre> cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn (51), cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 (52), cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn (53), cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 (54), cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn (55), cell_FACH_3_SCCPCH_3_FACH_2a_CTCH (56), cell_Two_DTCH_CS_PS_Init (57), cell_Four_DTCH_CS_PS_Init (58), cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn (59), cell_FACH_2SCCPCH_StandAlonePCH_2a (60), cell_Two_DTCH_PS_CS_Init (61), cell_Four_DTCH_PS_CS_Init (62), cell_DCH_HS_DSCH(63), cell_FACH_HS(64), cell_DCH_64kPS_RAB_SRB_HS(65), cell_One_DTCH_HS_DSCH_MAC(66), cell_5_UM_DCH_HS_DSCH (67), cell_DCH_Speech_WAMR (68), cell_Four_DTCH_HS_CS_Init (69), cell_Four_DTCH_HS_CS (70), cell_Two_DTCH_HS_CS_Init (71), cell_Two_DTCH_HS_CS (72), cell_Four_DTCH_CS_HS_Init (73), cell_DCH_2AM_HS_DSCH (74) } </pre>	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: AICHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { aichinfo AICH_Info, dl_TxPower AICH_PowerOffset } </pre>	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: AckNackReportReq
Encoding Variation	:
Comments	: Applicable Rel-5 or later 1.Start : The SS shall start reporting the HARQ-ACK information received on HS-DPCCH by primitive CPHY_HS_DPCCH_AckNack_IND on CPHY PCO. 2.Stop : The SS shall stop the reporting.
Type Definition	
<pre> ENUMERATED{ startRep (0), stopRep (1) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: AmConfirmationRequest
Encoding Variation	:
Comments	: If the noConfirmationRequested option is used, then an RLC_AM_DATA_CNF is not expected from the RLC AM entity. If the confirmationRequested option is used, then the RLC AM entity is being requested to provide an RLC_DATA_CNF primitive containing the same mui value.
Type Definition	
<pre> CHOICE { noConfirmationRequest NULL, confirmationRequested Mui } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: COUNT_I_MSB
Encoding Variation	:
Comments	: 28 bits long
Type Definition	
<pre> INTEGER (0..268435455) </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CellTxPowerLevel
Encoding Variation	:
Comments	: The defaultCellTxPowerLvl is a default setting and is used for the most signalling tests. The real total cell DL Tx power level equals to the sum of the DL Tx power of the individual physical channels configured. The totalCellTxPowerLvl applies to e.g. the idle mode tests in a non-default multi-cell radio environment.
Type Definition	
<pre>CHOICE { defaultCellTxPowerLvl NULL, totalCellTxPowerLvl DL_TxPower }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CiphActivationInfo
Encoding Variation	:
Comments	: DL or UL ciphering activation info. If RB is omitted in rB_UL_CiphActivationTimeInfo the SS takes no action on this RB and the ciphering configuration keeps unchanged on this RB. CipheringModeCommand = dummy NULL means no ciphering.
Type Definition	
<pre>CHOICE { cipheringModeInfo CipheringModeInfo, rb_UL_CipheringActivationTimeInfo RB_ActivationTimeInfoList }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CmacConfigReq
Encoding Variation	:
Comments	: To request to configure MAC
Type Definition	
<pre>SEQUENCE { activationTime SS_ActivationTime, ue_Info UE_Info, trCHInfo TrCHInfo, trCH_LogCHMapping TrCH_LogCHMappingList1 -- RACHTransmissionCtrlElements -- CPCHTransmissionControlElements }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CmacPagingConfigReq
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { pl_BitMapInfo CHOICE { e18 BIT STRING (SIZE (18)), e36 BIT STRING (SIZE (36)), e72 BIT STRING (SIZE (72)), e144 BIT STRING (SIZE (144))}, dRX_CycleLength INTEGER (3..9), iMSI IMSI_GSM_MAP, t_pich_T_sccpch BOOLEAN -- T_pich > T_sccpch then FALSE } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CmacSysinfoConfigReq
Encoding Variation	:
Comments	: if bcch_ModificationTime = OMIT SS shall modify the Sysinfo immediately
Type Definition	
<pre> SEQUENCE { sg_REP INTEGER (2..12), -- Repetition period is the sg_REP-th power of 2. sg_POS INTEGER (0..2047), -- The position of each segment is 2 * sg_POS. bcch_ModificationTime BCCH_ModificationTime OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CommonOrDedicatedTFS
Encoding Variation	:
Comments	: Transport Format Set
Type Definition	
<pre> SEQUENCE { tti CHOICE { tti10 CommonOrDedicatedTF_InfoList, tti20 CommonOrDedicatedTF_InfoList, tti40 CommonOrDedicatedTF_InfoList, tti80 CommonOrDedicatedTF_InfoList, dynamic CommonOrDedicatedTF_InfoList_DynamicTTI }, semistaticTF_Information SemistaticTF_Information } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CommonOrDedicatedTF_Info
Encoding Variation	:
Comments	: Transport Format Set
Type Definition	
<pre>SEQUENCE { tb_Size INTEGER (0..5035), numberOfTbSizeList SEQUENCE (SIZE (1..maxTF)) OF NumberOfTransportBlocks, logicalChannelList LogicalChannelList }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CommonOrDedicatedTF_InfoList
Encoding Variation	:
Comments	: Transport Format Set
Type Definition	
SEQUENCE (SIZE (1..maxTF)) OF CommonOrDedicatedTF_Info	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CommonOrDedicatedTF_InfoList_DynamicTTI
Encoding Variation	:
Comments	:
Type Definition	
<pre>SEQUENCE { tb_Size INTEGER (0..5035), numberOfTbSizeList SEQUENCE (SIZE (1..maxTF)) OF NumberOfTransportBlocks, logicalChannelList LogicalChannelList }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CphyRIModifyReq
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { activationTime SS_ActivationTime, physicalChannelInfo CHOICE { dpch_CompressedModeStatusInfo DPCH_CompressedModeStatusInfo, secondaryCCPCHInfo SecondaryCCPCHInfo, pRACHInfo PRACHInfo, dPCHInfo DPCHInfo, dPCHInfo_r5 DPCHInfo_r5, -- Rel-5 or later hS_PDSCHInfo HS_PDSCHInfo -- Rel-5 or later }, trchConfigToFollow BOOLEAN DEFAULT TRUE } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CphyRISetupReq
Encoding Variation	:
Comments	: To request to setup the Radio Link
Type Definition	
<pre> SEQUENCE { physicalChannelInfo CHOICE { primaryCPICHInfo PrimaryCPICHInfo, secondaryCPICHInfo SecondaryCPICHInfo, primarySCHInfo PrimarySCHInfo, secondarySCHInfo SecondarySCHInfo, primaryCCPCHInfo PrimaryCCPCHInfo, secondaryCCPCHInfo SecondaryCCPCHInfo, pRACHInfo PRACHInfo, pICHInfo PICHInfo, aICHInfo AICHInfo, dPCHInfo DPCHInfo, pDSCHInfo PDSCHInfo, dPCHInfo_r5 DPCHInfo_r5, -- Rel-5 or later hS_PDSCHInfo HS_PDSCHInfo -- Rel-5 or later } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CphyTrchConfigReq
Encoding Variation	:
Comments	: To request to configure the transport channel. The same TFCS information should be provided to the PHY and MAC layers at all times. When a CPHY_TrCH_Config_REQ is used to configure the PHY layer, a corresponding CMAC_Config_REQ should be sent to the MAC layer to ensure that the configuration is consistent. For configuring HS-DSCH transport channel, the ulconnectedTrCHList, ulTFCS, dlconnectedTrCHList and dlTFCS shall be omitted.
Type Definition	
<pre> SEQUENCE { activationTime SS_ActivationTime, ulconnectedTrCHList SEQUENCE (SIZE (0..maxTrCH)) OF SEQUENCE { trchid TransportChannelIdentity, ul_TransportChannelType SS_UL_TransportChannelType, transportChannelInfo CommonOrDedicatedTFS } OPTIONAL, ulTFCS TFCS OPTIONAL, dlconnectedTrCHList SEQUENCE (SIZE (0..maxTrCH)) OF SEQUENCE { trchid TransportChannelIdentity, dl_TransportChannelType SS_DL_TransportChannelType, transportChannelInfo CommonOrDedicatedTFS } OPTIONAL, dlTFCS TFCS OPTIONAL, hsDSCHMacdFlows HS_DSCHMACdFlows OPTIONAL --- Rel-5 or later } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CrlcConfigReq
Encoding Variation	:
Comments	: To request to setup, re_configure or release RLC entity. The Stop parameter indicates that the RLC entity shall not transmit or receive RLC PDUs. The Continue parameter indicates that the RLC entity shall continue transmission and reception of RLC PDUs. When the RLC entity is stopped, the RLC timers are not affected. Triggered polls and status transmissions are delayed until the RLC entity is continued.
Type Definition	
<pre> CHOICE { setup RBInfo, reconfigure RBInfo, release NULL, sS_stop NULL, sS_continue NULL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DL_DPCHInfo
Encoding Variation	:
Comments	: The range for powerOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0–6 dB, 0.25 dB per step.
Type Definition	
<pre> SEQUENCE { dl_CommonInformation DL_CommonInformation, dl_DPCH_InfoPerRL DL_DPCH_InfoPerRL, powerOffsetOfTFCI_PO1 INTEGER (0..24), powerOffsetOfTPC_PO2 INTEGER (0..24), powerOffsetOfPILOT_PO3 INTEGER (0..24), dl_TxPower DL_TxPower, dl_TxPowerMax DL_TxPower, dl_TxPowerMin DL_TxPower } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DL_DPCHInfo_r5
Encoding Variation	:
Comments	: Applicable Rel–5 or later
Type Definition	
<pre> SEQUENCE { dl_CommonInformation DL_CommonInformation_r5, dl_DPCH_InfoPerRL DL_DPCH_InfoPerRL_r5, powerOffsetOfTFCI_PO1 INTEGER (0..24), powerOffsetOfTPC_PO2 INTEGER (0..24), powerOffsetOfPILOT_PO3 INTEGER (0..24), dl_TxPower DL_TxPower, dl_TxPowerMax DL_TxPower, dl_TxPowerMin DL_TxPower } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DL_TxPower
Encoding Variation	:
Comments	: Downlink Tx Power relative to PCPICH
Type Definition	
INTEGER (–35..15)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DL_TxPower_PCPICH
Encoding Variation	:
Comments	: Absolute Tx Power of PCPICH
Type Definition	
INTEGER (−60..−30)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DPCHInfo
Encoding Variation	:
Comments	: The range for powerOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0 dB to 6 dB, 0,25 dB per step.
Type Definition	
SEQUENCE { ul_DPCHInfo UL_DPCH_Info OPTIONAL, dl_DPCHInfo DL_DPCHInfo OPTIONAL }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DPCHInfo_r5
Encoding Variation	:
Comments	: Applicable Rel-5 or later At least one of the first two fields shall be present. Presence of hs_DPCCHInd (value = truevalue) means that the HS-DPCCH shall be configured in the uplink DPCH. If hs_DPCCHInd is absent no HS-DPCCH shall be configured in the uplink DPCH, or the configured HS-DPCCH shall be removed in the modify ASP. In the active set which has radio links from more than one cell the HS-DPCCH is configured only in the HS-DSCH serving cell. Three combinations are valid: ul_DPCH_Info only, dl_DPCHInfo only and ul_DPCH_Info + hs_DPCCHInd.
Type Definition	
SEQUENCE { ul_DPCHInfo UL_DPCH_Info_r5 OPTIONAL, dl_DPCHInfo DL_DPCHInfo_r5 OPTIONAL, hs_DPCCHInd HS_DPCCHInfo OPTIONAL }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: HS_DPCCHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre>SEQUENCE { cqi_RepetitionFactor CQI_RepetitionFactor, ackNackRepetitionFactor ACK_NACK_repetitionFactor }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: HS_DSCHMACdFlows
Encoding Variation	:
Comments	: Applicable Rel-5 or later. Within the ACK/NACK repetition period indicated by ackNackRepetitionFactor the SS shall not transmit MAC-hs PDU's on HS-PDSCH.
Type Definition	
<pre>SEQUENCE { harqInfo HARQ_Info OPTIONAL, addOrReconfMACdFlow SS_AddOrReconfMAC_dFlow OPTIONAL, ackNackRepetitionFactor ACK_NACK_repetitionFactor OPTIONAL }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: HS_PDSCHInfo
Encoding Variation	:
Comments	: Applicable Rel-5 or later When CHY_RL_Setup_REQ is called with CHOICE of hS_PDSCHInfo the SS shall not only configure the HS_PDSCH but also the HS-SCCH; The following HS-DSCH related parameters are passed to the SS implicitly by HSDSCH_physical_layer_category: "Maximum number of HS-DSCH codes can be received by UE", "Minimum inter-TTI interval", "Maximum number of bits of an HS-DSCH transport block within an HS-DSCH TTI" and "Total number of soft channel bits". The HSDSCH_physical_Layer_category is also used for interpret the meaning of CQI value.
Type Definition	
<pre>SEQUENCE{ hSDSCHPhysicalLayerCategory HSDSCH_physical_layer_category, h_RNTI H_RNTI, dlHSPDSCHInformation DL_HSPDSCH_Information, sttd_Indicator BOOLEAN, hs_SCCH_TxPower DL_TxPower --- offset related to pilot bits on DL-DPCCH --- (TS 25.433 subcluse 9.2.2.18l) }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: HyperFrameNumber
Encoding Variation	:
Comments	:
Type Definition	
BIT STRING (SIZE (20))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Increment_Mode
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED {incPerCFN_Cycle(0), notInc(1), incByOne_IncPerCFN_Cycle(2)}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IntegrityActivationInfo
Encoding Variation	:
Comments	: Comment DL or UL integrity activation info.At the RRC message sequence numbers specified in the ul_IntegProtActivationInfo the SS shall initialise COUNT-I for the SRB's indicated in the ul_IntegProtActivationInfo and start using the new configuration on uplink for the indicated SRB's.If the START value is omitted in the CRLC_SecurityMode_Config_REQ above COUNT-I initialisation shall not be performed.
Type Definition	
CHOICE { integrityProtectionModelInfo IntegrityProtectionModelInfo, ul_IntegProtActivationInfo IntegrityProtActivationInfoList }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IntegrityProtActivationInfoList
Encoding Variation	:
Comments	: List of SS IntegrityProtActivationInfo
Type Definition	
SEQUENCE (SIZE (1..maxRB)) OF SS_IntegrityProtActivationTimeInfo	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IntegrityResult
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { integrityNotUsed NULL, integrityUsed IntegrityStatus }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IntegrityStatus
Encoding Variation	:
Comments	:
Type Definition	
<pre>ENUMERATED { i_pass(0), i_fail(1) }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_ActiveSetUpdate
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre>CHOICE { r3 SEQUENCE { activeSetUpdate_r3 ActiveSetUpdate_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_CCCH_MsgShort
Encoding Variation	:
Comments	:
Type Definition	
NULL	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_CellUpdateConfirm
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { cellUpdateConfirm_r3 CellUpdateConfirm_r3_IEs, v3a0NonCriticalExtensions SEQUENCE { cellUpdateConfirm_v3a0ext CellUpdateConfirm_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_DCCH_MsgShort
Encoding Variation	:
Comments	:
Type Definition	
NULL	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_DL_CCCH_MsgType
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { invalid_cellUpdateConfirm [0] Invalid_CCCH_MsgShort, invalid_rrcConnectionReject [1] Invalid_CCCH_MsgShort, invalid_rrcConnectionRelease [2] Invalid_CCCH_MsgShort, invalid_rrcConnectionSetup [3] Invalid_RRCConnectionSetup, --- Specific invalid message invalid_uraUpdateConfirm [4] Invalid_UraUpdateConfirm, invalid_extension [5] NULL, unkown_Type_CCCH_message [6] Invalid_CCCH_MsgShort } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_DL_DCCH_MsgType
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { invalid_activeSetUpdate [0] Invalid_ActiveSetUpdate, invalid_assistanceDataDelivery [1] Invalid_DCCH_MsgShort, invalid_cellChangeOrderFromUTRAN [2] Invalid_DCCH_MsgShort, invalid_cellUpdateConfirm [3] Invalid_CellUpdateConfirm , invalid_counterCheck [4] Invalid_DCCH_MsgShort, invalid_downlinkDirectTransfer [5] Invalid_DownlinkDirectTransfer, invalid_handoverFromUTRANCommand_GSM [6] Invalid_HandoverFromUTRANCommand_GSM, invalid_handoverFromUTRANCommand_CDMA2000 [7] Invalid_DCCH_MsgShort, invalid_measurementControl [8] Invalid_MeasurementControl, invalid_pagingType2 [9] Invalid_DCCH_MsgShort, invalid_physicalChannelReconfiguration [10] Invalid_PhysicalChannelReconfiguration, invalid_physicalSharedChannelAllocation [11] Invalid_DCCH_MsgShort, invalid_radioBearerReconfiguration [12] Invalid_RadioBearerReconfiguration, invalid_radioBearerRelease [13] Invalid_RadioBearerRelease, invalid_radioBearerSetup [14] Invalid_RadioBearerSetup, invalid_rrcConnectionRelease [15] Invalid_RRC_ConnectionRelease, invalid_securityModeCommand [16] Invalid_SecurityModeCommand, invalid_signallingConnectionRelease [17] Invalid_DCCH_MsgShort, invalid_transportChannelReconfiguration [18] Invalid_TransportChannelReconfiguration, invalid_transportFormatCombinationControl [19] Invalid_DCCH_MsgShort, invalid_ueCapabilityEnquiry [20] Invalid_UECapabilityEnquiry, --- Specific invalid message invalid_ueCapabilityInformationConfirm [21] Invalid_UECapabilityInformationConfirm, --- Specific invalid message invalid_uplinkPhysicalChannelControl [22] Invalid_DCCH_MsgShort, invalid_uraUpdateConfirm [23] Invalid_UraUpdateConfirm, invalid_utranMobilityInformation [24] Invalid_UtranMobilityInformation, invalid_extension [25] NULL, unkown_Type_DCCH_message [26] Invalid_DCCH_MsgShort } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_DL_SHCCH_MsgType
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { invalid_physicalSharedChannelAllocation [0] Invalid_SHCCH_Message_short, extension [1] NULL, unkown_Type_SHCCH_message [2] Invalid_SHCCH_Message_short }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_DownlinkDirectTransfer
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre>CHOICE { r3 SEQUENCE { downlinkDirectTransfer_r3 DownlinkDirectTransfer_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_HandoverFromUTRANCommand_GSM
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { handoverFromUTRANCommand_GSM_r3 HandoverFromUTRANCommand_GSM_r3_IEs, laterNonCriticalExtensions SEQUENCE { handoverFromUTRANCommand_GSM_r3_add_ext BIT STRING OPTIONAL, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_MeasurementControl
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { measurementControl_r3 MeasurementControl_r3_IEs, v390nonCriticalExtensions SEQUENCE { measurementControl_v390ext MeasurementControl_v390ext, v3a0NonCriticalExtensions SEQUENCE { measurementControl_v3a0ext MeasurementControl_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_PhysicalChannelReconfiguration
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { physicalChannelReconfiguration_r3 PhysicalChannelReconfiguration_r3_IEs, v3a0NonCriticalExtensions SEQUENCE { physicalChannelReconfiguration_v3a0ext PhysicalChannelReconfiguration_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_RRCCConnectionSetup
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { rrcConnectionSetup_r3 RRCCConnectionSetup_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_RRC_ConnectionRelease
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { rrcConnectionRelease_r3 RRCConnectionRelease_r3_IEs, laterNonCriticalExtensions SEQUENCE { rrcConnectionRelease_r3_add_ext BIT STRING OPTIONAL, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- instead of SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_RadioBearerReconfiguration
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { radioBearerReconfiguration_r3 RadioBearerReconfiguration_r3_IEs, v3aoNonCriticalExtensions SEQUENCE { radioBearerReconfiguration_v3a0ext RadioBearerReconfiguration_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_RadioBearerRelease
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { radioBearerRelease_r3 RadioBearerRelease_r3_IEs, v3a0NonCriticalExtensions SEQUENCE { radioBearerRelease_v3a0ext RadioBearerRelease_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_RadioBearerSetup
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { radioBearerSetup_r3 RadioBearerSetup_r3_IEs, v3a0NonCriticalExtensions SEQUENCE { radioBearerSetup_v3a0ext RadioBearerSetup_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_SHCCH_Message_short
Encoding Variation	:
Comments	:
Type Definition	
CounterCheckResponse	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_SecurityModeCommand
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { securityModeCommand_r3 SecurityModeCommand_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_TransportChannelReconfiguration
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { transportChannelReconfiguration_r3 TransportChannelReconfiguration_r3_IEs, v3a0NonCriticalExtensions SEQUENCE { transportChannelReconfiguration_v3a0ext TransportChannelReconfiguration_v3a0ext, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_UECapabilityEnquiry
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { ueCapabilityEnquiry_r3 UECapabilityEnquiry_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_UECapabilityInformationConfirm
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { ueCapabilityInformationConfirm_r3 UECapabilityInformationConfirm_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_UraUpdateConfirm
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { uraUpdateConfirm_r3 URAUpdateConfirm_r3_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Invalid_UtranMobilityInformation
Encoding Variation	:
Comments	: This invalid type should cause an undefined critical extension error
Type Definition	
<pre> CHOICE { r3 SEQUENCE { utranMobilityInformation_r3 UTRANMobilityInformation_r3_IEs, v3a0NonCriticalExtensions SEQUENCE { utranMobilityInformation_v3a0ext UTRANMobilityInformation_v3a0ext_IEs, nonCriticalExtensions SEQUENCE {} OPTIONAL } OPTIONAL }, later_than_r3 SEQUENCE { rrc_TransactionIdentifier RRC_TransactionIdentifier, criticalExtensions BIT STRING (SIZE(8)) -- INSTEAD OF SEQUENCE {} } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: KeyCiphering
Encoding Variation	:
Comments	:
Type Definition	
BIT STRING (SIZE (128))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: LogicalChannelType
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { bCCH (0), pCCH (1), cCCH (2), cTCH (3), dCCH (4), dTCH (5), sHCCH (6) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: MAC_HeaderManipulation
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { normalMacHeader (0), omitMacHeader (1) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ModulationScheme
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED {qpsk (0), qam16 (1)}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Mui
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0..4095)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PDSCHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { fdd_tdd CHOICE { fdd SEQUENCE { pdsch_CodeMapping PDSCH_CodeMapping }, tdd SEQUENCE { -- pdsch-Identity PDSCH-Identity, -- pdsch-Info PDSCH-Info, -- pdsch-PowerControlInfo PDSCH-PowerControlInfo OPTIONAL } }, dl_TxPower DL_TxPower } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PICHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { pichinfo PICH_Info, dl_TxPower PICH_PowerOffset, sccpchId_associated INTEGER (0..31) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PRACHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { fdd_tdd CHOICE { fdd SEQUENCE { preambleSignature AvailableSignatures, spreadingFactorForDataPart SF_PRACH, preambleScramblingCode PreambleScramblingCodeWordNumber, puncturingLimit PuncturingLimit, accessSlot AvailableSubChannelNumbers }, tdd SEQUENCE { -- timeSlot TimeSlot, -- spreadingCode SpreadingCode, -- midambleCode MidambleCode, } } } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PayloadSize
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0..4992)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PhysicalChannelIdentity
Encoding Variation	:
Comments	:
Type Definition	
INTEGER (0..31)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PrimaryCCPCHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { sttd_Indicator BOOLEAN, dl_TxPower DL_TxPower -- timeSlot TimeSlot OPTIONAL, -- burstType BurstType OPTIONAL, -- offset Offset OPTIONAL, -- repetitionPeriod RepetitionPeriod OPTIONAL, -- repetitionLength RepetitionLength OPTIONAL, } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PrimaryCPICHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { dl_TxPower_PCPICH DL_TxPower_PCPICH, txdiversityIndicator BOOLEAN } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PrimarySCHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { tstIndicator BOOLEAN, dl_TxPower DL_TxPower } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RBInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre>SEQUENCE { sS_rlc_Info SS_RLC_Info OPTIONAL, rB_LogCH_Mapping RB_LogCH_Mapping }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RB_LogCH_Mapping
Encoding Variation	:
Comments	:
Type Definition	
<pre>SEQUENCE { uLogicalChannelIdentity LogicalChannelIdentity OPTIONAL, dLogicalChannelIdentity LogicalChannelIdentity OPTIONAL, logicalChannelType LogicalChannelType OPTIONAL, cn_DomainIdentity CN_DomainIdentity OPTIONAL }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RLC_IncMode
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED {notInc(0), inc(1)}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RRC_Rel_Status
Encoding Variation	:
Comments	:
Type Definition	
<pre>ENUMERATED { cell_Dch(0), cell_Fach_Dcch(1), cell_Fach_Ccch(2) }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RRC_SequenceNumber
Encoding Variation	:
Comments	: 4 bits long
Type Definition	
INTEGER (0..15)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RRC_ServTested
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { speech (0), conversational_64k (1), streaming_57_6k (2), ps_Interactive (3), ps_Background (4) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RatType
Encoding Variation	:
Comments	: To select route between each channels
Type Definition	
<pre> ENUMERATED { fdd(0), tdd(1) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RegOr_MO
Encoding Variation	:
Comments	:
Type Definition	
<pre> ENUMERATED { est_Reg(0), est_MO(1), est_MT(2) } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RoutingInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre>CHOICE { physicalChannelIdentity INTEGER (0..31), transportChannelIdentity TransportChannelIdentity, logicalChannelIdentity LogicalChannelIdentity, rB_Identity INTEGER (-31..32), cn_DomainIdentity CN_DomainIdentity }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SCCPCHSlotFormat
Encoding Variation	:
Comments	: Reference to TS25.211
Type Definition	
INTEGER (0..17)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SIB
Encoding Variation	:
Comments	: Union of all system information blocks
Type Definition	
<pre> CHOICE { sIB1 SysInfoType1, sIB2 SysInfoType2, sIB3 SysInfoType3, sIB4 SysInfoType4, sIB5 SysInfoType5, sIB6 SysInfoType6, sIB7 SysInfoType7, sIB8 SysInfoType8, sIB9 SysInfoType9, sIB10 SysInfoType10, sIB11 SysInfoType11, sIB12 SysInfoType12, sIB13 SysInfoType13, sIB13_1 SysInfoType13_1, sIB13_2 SysInfoType13_2, sIB13_3 SysInfoType13_3, sIB13_4 SysInfoType13_4, sIB14 SysInfoType14, sIB15 SysInfoType15, sIB15_1 SysInfoType15_1, sIB15_2 SysInfoType15_2, sIB15_3 SysInfoType15_3, sIB16 SysInfoType16, sIB17 SysInfoType17, sIB18 SysInfoType18, mIB MasterInformationBlock, sB1 SysInfoTypeSB1, sB2 SysInfoTypeSB2 } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_ActivationTime
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { activationCFN ActivationTime, activateNow NULL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_AddOrReconfMAC_dFlow
Encoding Variation	:
Comments	: Applicable Rel-5 or later.
Type Definition	
<pre> SEQUENCE { mac_hs_AddReconfQueue_List SEQUENCE (SIZE(1..maxQueueIDs)) OF SEQUENCE { mac_hs_AddReconfQueue SS_MAC_hs_AddReconfQueue } OPTIONAL, mac_hs_DelQueue_List SEQUENCE (SIZE(1..maxQueueIDs)) OF SEQUENCE { mac_hsQueueId INTEGER(0..7) } OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_DL_LogicalChannelMapping
Encoding Variation	:
Comments	<p>If the macHeaderManipulation field is 'normalMacHeader', then data transmitted on this logical channel shall have an appropriate MAC header added before it is sent to lower layers for transmission.</p> <p>If the macHeaderManipulation field is 'OmitMacHeader', then data transmitted on this logical channel shall not have any MAC header information added, even if the logical channel type and mapping indicates that there should be a MAC header present. This allows the entire MAC PDU to be specified in the TTCN, so individual fields in the MAC header can be modified.</p> <p>When used for logical channel to MAC_d flow mapping rlc_SizeList should choose RLC_SizeExplicitList.</p>
Type Definition	
<pre> SEQUENCE { macHeaderManipulation MAC_HeaderManipulation, dl_TransportChannelType SS_DL_TransportChannelType, logicalChannelIdentity LogicalChannelIdentity, logicalChannelType LogicalChannelType , rlc_SizeList CHOICE { allSizes NULL, configured NULL, explicitList RLC_SizeExplicitList }, mac_LogicalChannelPriority MAC_LogicalChannelPriority OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_DL_RLC_Mode
Encoding Variation	:
Comments	:
Type Definition	
SEQUENCE { dl_PayloadSize PayloadSize OPTIONAL, dl_RLCModeInfo UL_RLC_Mode }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_DL_TransportChannelType
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { dch(0), fach(1), bch(2), pch(3), dsch(4), hsdsch(5) --- Rel-5 or later }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_IntegrityProtActivationTimeInfo
Encoding Variation	:
Comments	: Omitting rrc_MessageSequenceNumber means activation time set to "now".
Type Definition	
SEQUENCE { rb_Identity INTEGER (−31..32), rrc_MessageSequenceNumber RRC_MessageSequenceNumber OPTIONAL }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_MAC_hs_AddReconfQueue
Encoding Variation	:
Comments	: Applicable Rel-5 or later. When writing TTCN constraints the TTCN writer shall set the priority of PriorityQueue in this object correctly according to the priority of logical channels which is mapped on to this priority queue. And please note that : the range of priority of PriorityQueue is from 0 to 7 and 0 is the lowest priority.
Type Definition	
<pre> SEQUENCE { mACHsAddReconfQueue MAC_hs_AddReconfQueue, logicalChannelList SEQUENCE OF LogicalChannelIdentity, -- logical channels mapping onto the priority queue -- which is specified in mACHsAddReconfQueue priority INTEGER(0..7), discardTimer ENUMERATED { v20(0),v40(1),v60(2),v80(3),v100(4), v120(5),v140(6),v160(7),v180(8),v200(9), v250(10),v300(11),v400(12),v500(13), v750(14),v1000(15),v1250(16),v1500(17), v1750(18),v2000(19),v2500(20),v3000(21), v3500(22),v4000(23),v4500(24),v5000(25), v7500(26) } OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SS_RLC_Info
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { sS_ul_RLC_Mode DL_RLC_Mode OPTIONAL, sS_dl_RLC_Mode SS_DL_RLC_Mode OPTIONAL, sS_ul_RLC_Mode_r5 DL_RLC_Mode_r5 OPTIONAL -- Rel-5 or later } </pre>	
Detailed Comments	:

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

ASN.1 Type Definition	
Type Name	: SS_UL_TransportChannelType
Encoding Variation	:
Comments	:
Type Definition	
<pre>ENUMERATED { dch(0), rach(1), cpch(2), usch(3) }</pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SecondaryCCPCHInfo
Encoding Variation	:
Comments	: The range for powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0–6 dB, 0.25 dB per step.
Type Definition	
<pre> SEQUENCE { scramblingCode INTEGER(0..15), dl_ChannelizationCode SF256_AndCodeNumber, sCCPCHSlotFormat SCCPCHSlotFormat, timingOffset INTEGER (0..149), positionFixedOrFlexible PositionFixedOrFlexible, sttd_Indicator BOOLEAN, dl_TxPower DL_TxPower, powerOffsetOfTFCI_PO1 INTEGER (0..24), powerOffsetOfPILOT_PO3 INTEGER (0..24) -- timeSlot TimeSlot OPTIONAL, -- burstType BurstType OPTIONAL, -- midambleShift MidambleShift OPTIONAL, -- offset Offset OPTIONAL, -- repetitionPeriod RepetitionPeriod OPTIONAL, -- repetitionLength RepetitionLength OPTIONAL, -- tFCIPresence TFCIPresence OPTIONAL, } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SecondaryCPICHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { scramblingCode INTEGER(0..63), dl_ChannelizationCode SF512_AndCodeNumber, dl_TxPower DL_TxPower } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SecondarySCHInfo
Encoding Variation	:
Comments	:
Type Definition	
<pre> SEQUENCE { tstdIndicator BOOLEAN, dl_TxPower DL_TxPower } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SecurityInfo
Encoding Variation	:
Comments	: The integrityKey is not applicable to MAC
Type Definition	
<pre> SEQUENCE { cn_DomainIdentity CN_DomainIdentity, startValue START_Value OPTIONAL, cipheringKey BIT STRING (SIZE (128)) OPTIONAL, integrityKey BIT STRING (SIZE (128)) OPTIONAL, gsmCipheringKey BIT STRING (SIZE (64)) OPTIONAL } </pre>	
Detailed Comments : When the SS receives SecurityInfo, the SS first stores the contents. The SecurityInfo contents is not activated until the contents follows until receiving the subsequent ASP, CRLC_Ciphering_Activate_REQ, CMAC_Ciphering_Activate_REQ or CRLC_Integrity_Activate_REQ. Omitted fields of SecurityInfo shall not be affected by the subsequent ASP at the activation time. EXAMPLE: Omitting of startValue indicates not to re-initialize the relevant COUNT?C or COUNT-I, omitting of cipheringKey indicates that the current ciphering key is valid..	

ASN.1 Type Definition	
Type Name	: SegmentsOfSysInfoBlock
Encoding Variation	:
Comments	: The structure holding the segments of a MIB/SIB/SB, maximum number of segments is 16.
Type Definition	
<pre> SEQUENCE { segCount INTEGER (1..16), seg1 BIT STRING (SIZE (1..226)), seg2 BIT STRING (SIZE (1..222)) OPTIONAL, seg3 BIT STRING (SIZE (1..222)) OPTIONAL, seg4 BIT STRING (SIZE (1..222)) OPTIONAL, seg5 BIT STRING (SIZE (1..222)) OPTIONAL, seg6 BIT STRING (SIZE (1..222)) OPTIONAL, seg7 BIT STRING (SIZE (1..222)) OPTIONAL, seg8 BIT STRING (SIZE (1..222)) OPTIONAL, seg9 BIT STRING (SIZE (1..222)) OPTIONAL, seg10 BIT STRING (SIZE (1..222)) OPTIONAL, seg11 BIT STRING (SIZE (1..222)) OPTIONAL, seg12 BIT STRING (SIZE (1..222)) OPTIONAL, seg13 BIT STRING (SIZE (1..222)) OPTIONAL, seg14 BIT STRING (SIZE (1..222)) OPTIONAL, seg15 BIT STRING (SIZE (1..222)) OPTIONAL, seg16 BIT STRING (SIZE (1..222)) OPTIONAL } </pre>	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: TFC_Restriction
Encoding Variation	:
Comments	: This type is used to specify the allowed TFCs within the current TFCS. A TFC restriction is applicable until a subsequent TFC restriction is applied. TFC restrictions are not cumulative, so each TFC restriction completely replaces the previous TFC restriction. The downlink restriction can be used to ensure that the SS uses a specific TFC for transmission of data, by only allowing the 'No data' TFC, and the 'desired' TFC. It may also be necessary to include one or more 'signalling only' TFCs to allow signalling to occur. The uplink restriction can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.
Type Definition	
<pre>SEQUENCE { ulTFCI_Restriction TFC_Subset OPTIONAL, dlTFCI_Restriction TFC_Subset OPTIONAL }</pre>	
Detailed Comments	: SS requirements for downlink: 1. The SS MAC layer shall not use a restricted non-allowed TFC for DL. 2. The SS MAC layer shall not use a TFC that requires the SS RLC layer to provide padding PDUs (Ref 3G TS 25.322) 3. In the case that there is data pending on one or more RLC entities, but not enough to use one of the allowed TFCs: a. The SS MAC layer shall use the 'No data' TFC until there is enough data in the RLC to use another allowed TFC. b. The SS RLC layer shall buffer the data until there is enough data in the RLC entities for the MAC layer to use an allowed TFC other than the 'No data' TFC for transmission of the data. NB: The TTCN author is responsible for ensuring: 1. The SDU discard function is not configured for TM and UM entities in the UE, and is configured to no_discard for AM entities in the UE. 2. That RLC SDUs that are expected to be sent in the same TTI (due to a TFC restriction) are sent as quickly as possible to minimise the number of 'no data' TFCs used by the MAC layer, and the amount of buffering that must be performed by the RLC layer. SS requirements for uplink: The SS shall discard all data received using a restricted non-allowed TFC.

ASN.1 Type Definition	
Type Name	: Tcell
Encoding Variation	:
Comments	: Timing offset between reference channel and this channel (unit : 256 chips)
Type Definition	
INTEGER (0..38399)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TrCHInfo
Encoding Variation	:
Comments	: The same TFCS information should be provided to the PHY and MAC layers at all times. When a CMAC_Config_REQ is used to configure the MAC layer, a corresponding CPHY_TrCH_Config_REQ should be sent to the PHY layer to ensure that the configuration is consistent. For MAC-hs configuration: When ulconnectedTrCHList, ulTFCS, dlconnectedTrCHList and dlTFCS are omitted this ASP configures an MAC-hs entity.
Type Definition	
<pre> SEQUENCE { ulconnectedTrCHList SEQUENCE (SIZE (1..maxulTrCH)) OF SEQUENCE { trchid TransportChannelIdentity, transportChannelInfo CommonOrDedicatedTFS } OPTIONAL, ulTFCS TFCS OPTIONAL, dlconnectedTrCHList SEQUENCE (SIZE (1..maxdlTrCH)) OF SEQUENCE { trchid TransportChannelIdentity, transportChannelInfo CommonOrDedicatedTFS } OPTIONAL, dlTFCS TFCS OPTIONAL, hsDSCHMacdFlows HS_DSCHMACdFlows OPTIONAL -- Rel-5 or later } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TrCH_LogCHMappingList
Encoding Variation	:
Comments	: maxLogCHperTrCH = 8
Type Definition	
SEQUENCE (SIZE (1..maxLogCHperTrCH)) OF TrCH_LogicalChannelMapping	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TrCH_LogCHMappingList1
Encoding Variation	:
Comments	: maxulTrCH = maxdlTrCH = 16
Type Definition	
<pre> SEQUENCE { ulconnectedTrCHList SEQUENCE (SIZE (1..maxulTrCH)) OF SEQUENCE { trchid TransportChannelIdentity, trCH_LogCHMappingList TrCH_LogCHMappingList} OPTIONAL, dlconnectedTrCHList SEQUENCE (SIZE (1..maxdlTrCH)) OF SEQUENCE { trchid TransportChannelIdentity, trCH_LogCHMappingList TrCH_LogCHMappingList} OPTIONAL, dlconnectedMACdFlows SEQUENCE (SIZE (1..8)) OF SEQUENCE { mac_dFlowId MAC_d_FlowIdentity, trCH_LogCHMappingList TrCH_LogCHMappingList } OPTIONAL --- Rel-5 or later } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TrCH_LogicalChannelMapping
Encoding Variation	:
Comments	: When used for logical channel to MAC_d flow mapping dl_LogicalChannelMapping shall be chosen,
Type Definition	
<pre> SEQUENCE { logicalChannel_Mapping CHOICE { ul_LogicalChannelMapping SS_UL_LogicalChannelMapping, dl_LogicalChannelMapping SS_DL_LogicalChannelMapping }, rB_Identity INTEGER (-31..32) OPTIONAL, cn_DomainIdentity CN_DomainIdentity OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TrChConfigType
Encoding Variation	:
Comments	:
Type Definition	
<pre> CHOICE { nonDch NULL, dch ENUMERATED {normal(0), softHO(1)} } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: UE_Info
Encoding Variation	:
Comments	: The value of c_RNTI_DSCH_RNTI is 16 bits, used either for C-RNTI or DSCH-RNTI. DSCH is configured if the physical channel in CMAC_config_REQ is a PDSCH. Otherwise, C-RNTI is applied. For MAC-hs configuration both u_RNTI and c_RNTI_DSCH_RNTI are omitted.
Type Definition	
SEQUENCE { u_RNTI U_RNTI OPTIONAL, c_RNTI C_RNTI OPTIONAL }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: UE_OperationMode
Encoding Variation	:
Comments	:
Type Definition	
ENUMERATED { opModeA (0), opModeC (1) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TFRC_ConfigType
Encoding Variation	:
Comments	: This IE defines the UL Data Rate to be established when associated with HS-DSCH
Type Definition	
ENUMERATED { explicit(0), sS_Configured(1)}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: UL_DataRate
Encoding Variation	:
Comments	: This IE defines the UL Data Rate to be established when associated with HS-DSCH
Type Definition	
ENUMERATED { r64(0), r384(1)}	
Detailed Comments	:

ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
DL_DCCH_MessageType	DL-DCCH-MessageType	Class-definitions		
UL_DCCH_MessageType	UL-DCCH-MessageType	Class-definitions		
DL_CCCH_MessageType	DL-CCCH-MessageType	Class-definitions		
UL_CCCH_MessageType	UL-CCCH-MessageType	Class-definitions		
PCCH_MessageType	PCCH-MessageType	Class-definitions		
DL_SHCCH_MessageType	DL-SHCCH-MessageType	Class-definitions		
UL_SHCCH_MessageType	UL-SHCCH-MessageType	Class-definitions		
BCCH_FACH_MessageType	BCCH-FACH-MessageType	Class-definitions		
ActiveSetUpdate	ActiveSetUpdate	Class-definitions		
ActiveSetUpdate_r3_IEs	ActiveSetUpdate-r3-IEs	Class-definitions		
ActiveSetUpdate_v4b0ext_IEs	ActiveSetUpdate-v4b0ext-IEs	Class-definitions		
ActiveSetUpdate_v590ext_IEs	ActiveSetUpdate-v590ext-IEs	Class-definitions		
ActiveSetUpdateComplete	ActiveSetUpdateComplete	Class-definitions		
ActiveSetUpdateFailure	ActiveSetUpdateFailure	Class-definitions		
AssistanceDataDelivery	AssistanceDataDelivery	Class-definitions		
AssistanceDataDelivery_r3_IEs	AssistanceDataDelivery-r3-IEs	Class-definitions		
AssistanceDataDelivery_v3a0ext	AssistanceDataDelivery-v3a0ext	Class-definitions		
AssistanceDataDelivery_v4b0ext_IEs	AssistanceDataDelivery-v4b0ext-IEs	Class-definitions		
CellChangeOrderFromUTRAN	CellChangeOrderFromUTRAN	Class-definitions		
CellChangeOrderFromUTRAN_r3_IEs	CellChangeOrderFromUTRAN-r3-IEs	Class-definitions		
CellChangeOrderFromUTRAN_v590ext_IEs	CellChangeOrderFromUTRAN-v590ext-IEs	Class-definitions		
CellChangeOrderFromUTRANFailure	CellChangeOrderFromUTRANFailure	Class-definitions		
CellChangeOrderFromUTRANFailure_r3_IEs	CellChangeOrderFromUTRANFailure-r3-IEs	Class-definitions		
CellUpdate	CellUpdate	Class-definitions		
CellUpdate_v590ext	CellUpdate-v590ext	Class-definitions		
CellUpdateConfirm	CellUpdateConfirm	Class-definitions		
CellUpdateConfirm_r3_IEs	CellUpdateConfirm-r3-IEs	Class-definitions		
CellUpdateConfirm_v3a0ext	CellUpdateConfirm-v3a0ext	Class-definitions		
CellUpdateConfirm_v4b0ext_IEs	CellUpdateConfirm-v4b0ext-IEs	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
CellUpdateConfirm_v590ext_IEs	CellUpdateConfirm-v590ext-IEs	Class-definitions		
CellUpdateConfirm_r4_IEs	CellUpdateConfirm-r4-IEs	Class-definitions		
CellUpdateConfirm_r5_IEs	CellUpdateConfirm-r5-IEs	Class-definitions		
CellUpdateConfirm_CCH	CellUpdateConfirm-CCH	Class-definitions		
CounterCheck	CounterCheck	Class-definitions		
CounterCheck_r3_IEs	CounterCheck-r3-IEs	Class-definitions		
CounterCheckResponse	CounterCheckResponse	Class-definitions		
DownlinkDirectTransfer	DownlinkDirectTransfer	Class-definitions		
DownlinkDirectTransfer_r3_IEs	DownlinkDirectTransfer-r3-IEs	Class-definitions		
HandoverToUTRANComplete	HandoverToUTRANComplete	Class-definitions		
InitialDirectTransfer	InitialDirectTransfer	Class-definitions		
InitialDirectTransfer_v3a0ext	InitialDirectTransfer-v3a0ext	Class-definitions		
InitialDirectTransfer_v590ext	InitialDirectTransfer-v590ext	Class-definitions		
HandoverFromUTRANCommand_GSM	HandoverFromUTRANCommand-GSM	Class-definitions		
HandoverFromUTRANCommand_GSM_r3_IEs	HandoverFromUTRANCommand-GSM-r3-IEs	Class-definitions		
HandoverFromUTRANCommand_GERANlu	HandoverFromUTRANCommand-GERANlu	Class-definitions		
HandoverFromUTRANCommand_GERANlu_r5_IEs	HandoverFromUTRANCommand-GERANlu-r5-IEs	Class-definitions		
HandoverFromUTRANCommand_CDMA2000	HandoverFromUTRANCommand-CDMA2000	Class-definitions		
HandoverFromUTRANCommand_CDMA2000_r3_IEs	HandoverFromUTRANCommand-CDMA2000-r3-IEs	Class-definitions		
HandoverFromUTRANFailure	HandoverFromUTRANFailure	Class-definitions		
HandoverFromUtranFailure_v590ext_IEs	HandoverFromUtranFailure-v590ext-IEs	Class-definitions		
MeasurementControl	MeasurementControl	Class-definitions		
MeasurementControl_r3_IEs	MeasurementControl-r3-IEs	Class-definitions		
MeasurementControl_v390ext	MeasurementControl-v390ext	Class-definitions		
MeasurementControl_v3a0ext	MeasurementControl-v3a0ext	Class-definitions		
MeasurementControl_r4_IEs	MeasurementControl-r4-IEs	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
MeasurementControl_v590ext_IEs	MeasurementControl_v590ext-IEs	Class-definitions		
MeasurementControl_v5b0ext_IEs	MeasurementControl_v5b0ext-IEs	Class-definitions		
MeasurementControlFailure	MeasurementControlFailure	Class-definitions		
MeasurementControlFailure_v590ext_IEs	MeasurementControlFailure_v590ext-IEs	Class-definitions		
MeasurementReport	MeasurementReport	Class-definitions		
MeasurementReport_v390ext	MeasurementReport_v390ext	Class-definitions		
MeasurementReport_v4b0ext_IEs	MeasurementReport_v4b0ext-IEs	Class-definitions		
MeasurementReport_v590ext_IEs	MeasurementReport_v590ext-IEs	Class-definitions		
MeasurementReport_v5b0ext_IEs	MeasurementReport_v5b0ext-IEs	Class-definitions		
PagingType1	PagingType1	Class-definitions		
PagingType1_v590ext_IEs	PagingType1_v590ext-IEs	Class-definitions		
PagingType2	PagingType2	Class-definitions		
PhysicalChannelReconfiguration	PhysicalChannelReconfiguration	Class-definitions		
PhysicalChannelReconfiguration_r3_IEs	PhysicalChannelReconfiguration_r3-IEs	Class-definitions		
PhysicalChannelReconfiguration_v3a0ext	PhysicalChannelReconfiguration_v3a0ext	Class-definitions		
PhysicalChannelReconfiguration_v4b0ext_IEs	PhysicalChannelReconfiguration_v4b0ext-IEs	Class-definitions		
PhysicalChannelReconfiguration_v590ext_IEs	PhysicalChannelReconfiguration_v590ext-IEs	Class-definitions		
PhysicalChannelReconfiguration_r4_IEs	PhysicalChannelReconfiguration_r4-IEs	Class-definitions		
PhysicalChannelReconfiguration_r5_IEs	PhysicalChannelReconfiguration_r5-IEs	Class-definitions		
PhysicalChannelReconfigurationComplete	PhysicalChannelReconfigurationComplete	Class-definitions		
PhysicalChannelReconfigurationFailure	PhysicalChannelReconfigurationFailure	Class-definitions		
PhysicalSharedChannelAllocation	PhysicalSharedChannelAllocation	Class-definitions		
PhysicalSharedChannelAllocation_r3_IEs	PhysicalSharedChannelAllocation_r3-IEs	Class-definitions		
PhysicalSharedChannelAllocation_r4_IEs	PhysicalSharedChannelAllocation_r4-IEs	Class-definitions		
PUSCHCapacityRequest	PUSCHCapacityRequest	Class-definitions		
PUSCHCapacityRequest_v590ext	PUSCHCapacityRequest_v590ext	Class-definitions		
RadioBearerReconfiguration	RadioBearerReconfiguration	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
RadioBearerReconfiguration_r3_IEs	RadioBearerReconfiguration-r3-IEs	Class-definitions		
RadioBearerReconfiguration_v3a0ext	RadioBearerReconfiguration-v3a0ext	Class-definitions		
RadioBearerReconfiguration_v4b0ext_IEs	RadioBearerReconfiguration-v4b0ext-IEs	Class-definitions		
RadioBearerReconfiguration_v590ext_IEs	RadioBearerReconfiguration-v590ext-IEs	Class-definitions		
RadioBearerReconfiguration_r4_IEs	RadioBearerReconfiguration-r4-IEs	Class-definitions		
RadioBearerReconfiguration_r5_IEs	RadioBearerReconfiguration-r5-IEs	Class-definitions		
RadioBearerReconfigurationComplete	RadioBearerReconfigurationComplete	Class-definitions		
RadioBearerReconfigurationFailure	RadioBearerReconfigurationFailure	Class-definitions		
RadioBearerRelease	RadioBearerRelease	Class-definitions		
RadioBearerRelease_r3_IEs	RadioBearerRelease-r3-IEs	Class-definitions		
RadioBearerRelease_v3a0ext	RadioBearerRelease-v3a0ext	Class-definitions		
RadioBearerRelease_v4b0ext_IEs	RadioBearerRelease-v4b0ext-IEs	Class-definitions		
RadioBearerRelease_v590ext_IEs	RadioBearerRelease-v590ext-IEs	Class-definitions		
RadioBearerRelease_r4_IEs	RadioBearerRelease-r4-IEs	Class-definitions		
RadioBearerRelease_r5_IEs	RadioBearerRelease-r5-IEs	Class-definitions		
RadioBearerReleaseComplete	RadioBearerReleaseComplete	Class-definitions		
RadioBearerReleaseFailure	RadioBearerReleaseFailure	Class-definitions		
RadioBearerSetup	RadioBearerSetup	Class-definitions		
RadioBearerSetup_r3_IEs	RadioBearerSetup-r3-IEs	Class-definitions		
RadioBearerSetup_v3a0ext	RadioBearerSetup-v3a0ext	Class-definitions		
RadioBearerSetup_v4b0ext_IEs	RadioBearerSetup-v4b0ext-IEs	Class-definitions		
RadioBearerSetup_v590ext_IEs	RadioBearerSetup-v590ext-IEs	Class-definitions		
RadioBearerSetup_r4_IEs	RadioBearerSetup-r4-IEs	Class-definitions		
RadioBearerSetup_r5_IEs	RadioBearerSetup-r5-IEs	Class-definitions		
RadioBearerSetupComplete	RadioBearerSetupComplete	Class-definitions		
RadioBearerSetupFailure	RadioBearerSetupFailure	Class-definitions		
RRCCConnectionReject	RRCCConnectionReject	Class-definitions		
RRCCConnectionReject_r3_IEs	RRCCConnectionReject-r3-IEs	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
RRCCConnectionRelease	RRCCConnectionRelease	Class-definitions		
RRCCConnectionRelease_r3_IEs	RRCCConnectionRelease-r3-IEs	Class-definitions		
RRCCConnectionRelease_r4_IEs	RRCCConnectionRelease-r4-IEs	Class-definitions		
RRCCConnectionRelease_CCCH	RRCCConnectionRelease-CCCH	Class-definitions		
RRCCConnectionRelease_CCCH_r3_IEs	RRCCConnectionRelease-CCCH-r3-IEs	Class-definitions		
RRCCConnectionRelease_CCCH_r4_IEs	RRCCConnectionRelease-CCCH-r4-IEs	Class-definitions		
RRCCConnectionRelease_CCCH_r5_IEs	RRCCConnectionRelease-CCCH-r5-IEs	Class-definitions		
RRCCConnectionReleaseComplete	RRCCConnectionReleaseComplete	Class-definitions		
RRCCConnectionRequest	RRCCConnectionRequest	Class-definitions		
RRCCConnectionRequest_v3d0ext_IEs	RRCCConnectionRequest-v3d0ext-IEs	Class-definitions		
RRCCConnectionRequest_v4b0ext_IEs	RRCCConnectionRequest-v4b0ext-IEs	Class-definitions		
RRCCConnectionRequest_v590ext_IEs	RRCCConnectionRequest-v590ext-IEs	Class-definitions		
RRCCConnectionSetup	RRCCConnectionSetup	Class-definitions		
RRCCConnectionSetup_r3_IEs	RRCCConnectionSetup-r3-IEs	Class-definitions		
RRCCConnectionSetup_v4b0ext_IEs	RRCCConnectionSetup-v4b0ext-IEs	Class-definitions		
RRCCConnectionSetup_v590ext_IEs	RRCCConnectionSetup-v590ext-IEs	Class-definitions		
RRCCConnectionSetup_r4_IEs	RRCCConnectionSetup-r4-IEs	Class-definitions		
RRCCConnectionSetup_r5_IEs	RRCCConnectionSetup-r5-IEs	Class-definitions		
RRCCConnectionSetupComplete	RRCCConnectionSetupComplete	Class-definitions		
RRCCConnectionSetupComplete_v370ext	RRCCConnectionSetupComplete-v370ext	Class-definitions		
RRCCConnectionSetupComplete_v380ext_IEs	RRCCConnectionSetupComplete-v380ext-IEs	Class-definitions		
RRCCConnectionSetupComplete_v3a0ext_IEs	RRCCConnectionSetupComplete-v3a0ext-IEs	Class-definitions		
RRCCConnectionSetupComplete_v3g0ext_IEs	RRCCConnectionSetupComplete-v3g0ext-IEs	Class-definitions		
RRCCConnectionSetupComplete_v4b0ext_IEs	RRCCConnectionSetupComplete-v4b0ext-IEs	Class-definitions		
RRCCConnectionSetupComplete_v590ext_IEs	RRCCConnectionSetupComplete-v590ext-IEs	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
RRCStatus	RRCStatus	Class-definitions		
SecurityModeCommand	SecurityModeCommand	Class-definitions		
SecurityModeCommand_r3_IEs	SecurityModeCommand-r3-IEs	Class-definitions		
SecurityModeComplete	SecurityModeComplete	Class-definitions		
SecurityModeFailure	SecurityModeFailure	Class-definitions		
SignallingConnectionRelease	SignallingConnectionRelease	Class-definitions		
SignallingConnectionRelease_r3_IEs	SignallingConnectionRelease-r3-IEs	Class-definitions		
SignallingConnectionReleaseIndication	SignallingConnectionReleaseIndication	Class-definitions		
SystemInformation_BCH	SystemInformation-BCH	Class-definitions		
SystemInformation_FACH	SystemInformation-FACH	Class-definitions		
FirstSegment	FirstSegment	Class-definitions		
FirstSegmentShort	FirstSegmentShort	Class-definitions		
SubsequentSegment	SubsequentSegment	Class-definitions		
LastSegment	LastSegment	Class-definitions		
LastSegmentShort	LastSegmentShort	Class-definitions		
CompleteSIB_List	CompleteSIB-List	Class-definitions		
CompleteSIB	CompleteSIB	Class-definitions		
CompleteSIBshort	CompleteSIBshort	Class-definitions		
SystemInformationChangeIndication	SystemInformationChangeIndication	Class-definitions		
TransportChannelReconfiguration	TransportChannelReconfiguration	Class-definitions		
TransportChannelReconfiguration_r3_IEs	TransportChannelReconfiguration-r3-IEs	Class-definitions		
TransportChannelReconfiguration_v3a0ext	TransportChannelReconfiguration-v3a0ext	Class-definitions		
TransportChannelReconfiguration_v4b0ext_IEs	TransportChannelReconfiguration-v4b0ext-IEs	Class-definitions		
TransportChannelReconfiguration_v590ext_IEs	TransportChannelReconfiguration-v590ext-IEs	Class-definitions		
TransportChannelReconfiguration_r4_IEs	TransportChannelReconfiguration-r4-IEs	Class-definitions		
TransportChannelReconfiguration_r5_IEs	TransportChannelReconfiguration-r5-IEs	Class-definitions		
TransportChannelReconfigurationComplete	TransportChannelReconfigurationComplete	Class-definitions		
TransportChannelReconfigurationFailure	TransportChannelReconfigurationFailure	Class-definitions		
TransportFormatCombinationControl	TransportFormatCombinationControl	Class-definitions		
TransportFormatCombinationControlFailure	TransportFormatCombinationControlFailure	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UECapabilityEnquiry	UECapabilityEnquiry	Class-definitions		
UECapabilityEnquiry_r3_IEs	UECapabilityEnquiry-r3-IEs	Class-definitions		
UECapabilityEnquiry_v4b0ext_IEs	UECapabilityEnquiry-v4b0ext-IEs	Class-definitions		
UECapabilityEnquiry_v590ext_IEs	UECapabilityEnquiry-v590ext-IEs	Class-definitions		
UECapabilityInformation	UECapabilityInformation	Class-definitions		
UECapabilityInformation_v370ext	UECapabilityInformation-v370ext	Class-definitions		
UECapabilityInformation_v380ext_IEs	UECapabilityInformation-v380ext-IEs	Class-definitions		
UECapabilityInformation_v3a0ext_IEs	UECapabilityInformation-v3a0ext-IEs	Class-definitions		
UECapabilityInformation_v4b0ext	UECapabilityInformation-v4b0ext	Class-definitions		
UECapabilityInformation_v590ext	UECapabilityInformation-v590ext	Class-definitions		
UECapabilityInformationConfirm	UECapabilityInformationConfirm	Class-definitions		
UECapabilityInformationConfirm_r3_IEs	UECapabilityInformationConfirm-r3-IEs	Class-definitions		
UplinkDirectTransfer	UplinkDirectTransfer	Class-definitions		
UplinkPhysicalChannelControl	UplinkPhysicalChannelControl	Class-definitions		
UplinkPhysicalChannelControl_r3_IEs	UplinkPhysicalChannelControl-r3-IEs	Class-definitions		
UplinkPhysicalChannelControl_v4b0ext_IEs	UplinkPhysicalChannelControl-v4b0ext-IEs	Class-definitions		
UplinkPhysicalChannelControl_r4_IEs	UplinkPhysicalChannelControl-r4-IEs	Class-definitions		
UplinkPhysicalChannelControl_r5_IEs	UplinkPhysicalChannelControl-r5-IEs	Class-definitions		
URAUpdate	URAUpdate	Class-definitions		
URAUpdateConfirm	URAUpdateConfirm	Class-definitions		
URAUpdateConfirm_r3_IEs	URAUpdateConfirm-r3-IEs	Class-definitions		
URAUpdateConfirm_r5_IEs	URAUpdateConfirm-r5-IEs	Class-definitions		
URAUpdateConfirm_CCCH	URAUpdateConfirm-CCCH	Class-definitions		
URAUpdateConfirm_CCCH_r3_IEs	URAUpdateConfirm-CCCH-r3-IEs	Class-definitions		
UTRANMobilityInformation	UTRANMobilityInformation	Class-definitions		
UTRANMobilityInformation_r3_IEs	UTRANMobilityInformation-r3-IEs	Class-definitions		
UTRANMobilityInformation_v3a0ext_IEs	UTRANMobilityInformation-v3a0ext-IEs	Class-definitions		
UTRANMobilityInformation_r5_IEs	UTRANMobilityInformation-r5-IEs	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UTRANMobilityInformationConfirm	UTRANMobilityInformationConfirm	Class-definitions		
UTRANMobilityInformationFailure	UTRANMobilityInformationFailure	Class-definitions		
Ansi_41_IDNNS	Ansi-41-IDNNS	Class-definitions		
CN_DomainIdentity	CN-DomainIdentity	Class-definitions		
CN_DomainInformation	CN-DomainInformation	Class-definitions		
CN_DomainInformationFull	CN-DomainInformationFull	Class-definitions		
CN_DomainInformationList	CN-DomainInformationList	Class-definitions		
CN_DomainInformationListFull	CN-DomainInformationListFull	Class-definitions		
CN_DomainSysInfo	CN-DomainSysInfo	Class-definitions		
CN_DomainSysInfoList	CN-DomainSysInfoList	Class-definitions		
CN_InformationInfo	CN-InformationInfo	Class-definitions		
CN_InformationInfoFull	CN-InformationInfoFull	Class-definitions		
Digit	Digit	Class-definitions		
Gsm_map_IDNNS	Gsm-map-IDNNS	Class-definitions		
IMEI	IMEI	Class-definitions		
IMEI_Digit	IMEI-Digit	Class-definitions		
IMSI_GSM_MAP	IMSI-GSM-MAP	Class-definitions		
IntraDomainNasNodeSelector	IntraDomainNasNodeSelector	Class-definitions		
LAI	LAI	Class-definitions		
MCC	MCC	Class-definitions		
MNC	MNC	Class-definitions		
NAS_Message	NAS-Message	Class-definitions		
NAS_Synchronisation_Indicator	NAS-Synchronisation-Indicator	Class-definitions		
NAS_SystemInformationGSM_MAP	NAS-SystemInformationGSM-MAP	Class-definitions		
P_TMSI_GSM_MAP	P-TMSI-GSM-MAP	Class-definitions		
PagingRecordTypeID	PagingRecordTypeID	Class-definitions		
PLMN_Identity	PLMN-Identity	Class-definitions		
PLMN_Type	PLMN-Type	Class-definitions		
RAB_Identity	RAB-Identity	Class-definitions		
RAI	RAI	Class-definitions		
RoutingAreaCode	RoutingAreaCode	Class-definitions		
RoutingParameter	RoutingParameter	Class-definitions		
TMSI_GSM_MAP	TMSI-GSM-MAP	Class-definitions		
AccessClassBarred	AccessClassBarred	Class-definitions		
AccessClassBarredList	AccessClassBarredList	Class-definitions		
AllowedIndicator	AllowedIndicator	Class-definitions		
CellAccessRestriction	CellAccessRestriction	Class-definitions		
CellBarred	CellBarred	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
CellIdentity	CellIdentity	Class-definitions		
CellIdentity_PerRL_List	CellIdentity-PerRL-List	Class-definitions		
CellSelectReselectInfoSIB_3_4	CellSelectReselectInfoSIB-3-4	Class-definitions		
MapParameter	MapParameter	Class-definitions		
Mapping	Mapping	Class-definitions		
Mapping_LCR_r4	Mapping-LCR-r4	Class-definitions		
MappingFunctionParameter	MappingFunctionParameter	Class-definitions		
MappingFunctionParameterList	MappingFunctionParameterList	Class-definitions		
MappingFunctionType	MappingFunctionType	Class-definitions		
MappingInfo	MappingInfo	Class-definitions		
Q_Hyst_S	Q-Hyst-S	Class-definitions		
Q_Hyst_S_Fine	Q-Hyst-S-Fine	Class-definitions		
RAT	RAT	Class-definitions		
RAT_FDD_Info	RAT-FDD-Info	Class-definitions		
RAT_FDD_InfoList	RAT-FDD-InfoList	Class-definitions		
RAT_Identifier	RAT-Identifier	Class-definitions		
RAT_TDD_Info	RAT-TDD-Info	Class-definitions		
RAT_TDD_InfoList	RAT-TDD-InfoList	Class-definitions		
ReservedIndicator	ReservedIndicator	Class-definitions		
S_SearchQual	S-SearchQual	Class-definitions		
S_SearchRXLEV	S-SearchRXLEV	Class-definitions		
T_Barred	T-Barred	Class-definitions		
T_Reselection_S	T-Reselection-S	Class-definitions		
T_Reselection_S_Fine	T-Reselection-S-Fine	Class-definitions		
UpperLimit	UpperLimit	Class-definitions		
URA_Identity	URA-Identity	Class-definitions		
URA_IdentityList	URA-IdentityList	Class-definitions		
AccessStratumReleaseIndicator	AccessStratumReleaseIndicator	Class-definitions		
ActivationTime	ActivationTime	Class-definitions		
BackoffControlParameters	BackoffControlParameters	Class-definitions		
C_RNTI	C-RNTI	Class-definitions		
CapabilityUpdateRequirement	CapabilityUpdateRequirement	Class-definitions		
CapabilityUpdateRequirement_r4_ext	CapabilityUpdateRequirement-r4-ext	Class-definitions		
CapabilityUpdateRequirement_r4	CapabilityUpdateRequirement-r4	Class-definitions		
CellUpdateCause	CellUpdateCause	Class-definitions		
ChipRateCapability	ChipRateCapability	Class-definitions		
CipheringAlgorithm	CipheringAlgorithm	Class-definitions		
CipheringModeCommand	CipheringModeCommand	Class-definitions		
CipheringModelInfo	CipheringModelInfo	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
CN_DRX_CycleLengthCoefficient	CN-DRX-CycleLengthCoefficient	Class-definitions		
CN_PagedUE_Identity	CN-PagedUE-Identity	Class-definitions		
CompressedModeMeasureCapability	CompressedModeMeasureCapability	Class-definitions		
CompressedModeMeasureCapability_LCR_r4	CompressedModeMeasureCapability-LCR-r4	Class-definitions		
CompressedModeMeasureCapabilityFDDList	CompressedModeMeasureCapabilityFDDList	Class-definitions		
CompressedModeMeasureCapabilityFDD	CompressedModeMeasureCapabilityFDD	Class-definitions		
CompressedModeMeasureCapabilityTDDList	CompressedModeMeasureCapabilityTDDList	Class-definitions		
CompressedModeMeasureCapabilityTDD	CompressedModeMeasureCapabilityTDD	Class-definitions		
CompressedModeMeasureCapabilityGSMList	CompressedModeMeasureCapabilityGSMList	Class-definitions		
CompressedModeMeasureCapabilityGSM	CompressedModeMeasureCapabilityGSM	Class-definitions		
CompressedModeMeasureCapabilityMC	CompressedModeMeasureCapabilityMC	Class-definitions		
CPCH_Parameters	CPCH-Parameters	Class-definitions		
DL_CapabilityWithSimultaneousHS_DSCHConfig	DL-CapabilityWithSimultaneousHS-DSCHConfig	Class-definitions		
DL_DPCCH_BER	DL-DPCCH-BER	Class-definitions		
DL_PhysChCapabilityFDD	DL-PhysChCapabilityFDD	Class-definitions		
DL_PhysChCapabilityFDD_v380ext	DL-PhysChCapabilityFDD-v380ext	Class-definitions		
SupportOfDedicatedPilotForChEstimation	SupportOfDedicatedPilotForChEstimation	Class-definitions		
DL_PhysChCapabilityTDD	DL-PhysChCapabilityTDD	Class-definitions		
DL_PhysChCapabilityTDD_LCR_r4	DL-PhysChCapabilityTDD-LCR-r4	Class-definitions		
DL_TransChCapability	DL-TransChCapability	Class-definitions		
DRAC_SysInfo	DRAC-SysInfo	Class-definitions		
DRAC_SysInfoList	DRAC-SysInfoList	Class-definitions		
DSCH_RNTI	DSCH-RNTI	Class-definitions		
ESN_DS_41	ESN-DS-41	Class-definitions		
EstablishmentCause	EstablishmentCause	Class-definitions		
FailureCauseWithProtErr	FailureCauseWithProtErr	Class-definitions		
FailureCauseWithProtErrTrId	FailureCauseWithProtErrTrId	Class-definitions		
GroupIdentityWithReleaseInformation	GroupIdentityWithReleaseInformation	Class-definitions		
GroupReleaseInformation	GroupReleaseInformation	Class-definitions		
GSM_Measurements	GSM-Measurements	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
H_RNTI	H-RNTI	Class-definitions		
HSDSCH_physical_layer_category	HSDSCH-physical-layer-category	Class-definitions		
UESpecificBehaviourInformation1idle	UESpecificBehaviourInformation1idle	Class-definitions		
IMSI_and_ESN_DS_41	IMSI-and-ESN-DS-41	Class-definitions		
IMSI_DS_41	IMSI-DS-41	Class-definitions		
InitialPriorityDelayList	InitialPriorityDelayList	Class-definitions		
InitialUE_Identity	InitialUE-Identity	Class-definitions		
IntegrityCheckInfo	IntegrityCheckInfo	Class-definitions		
IntegrityProtActivationInfo	IntegrityProtActivationInfo	Class-definitions		
IntegrityProtectionAlgorithm	IntegrityProtectionAlgorithm	Class-definitions		
IntegrityProtectionModeCommand	IntegrityProtectionModeCommand	Class-definitions		
IntegrityProtectionModeInfo	IntegrityProtectionModeInfo	Class-definitions		
IntegrityProtInitNumber	IntegrityProtInitNumber	Class-definitions		
MaxHcContextSpace	MaxHcContextSpace	Class-definitions		
MaxHcContextSpace_r5_ext	MaxHcContextSpace-r5-ext	Class-definitions		
MaxROHC_ContextSessions_r4	MaxROHC-ContextSessions-r4	Class-definitions		
MaximumAM_EntityNumberRLC_Cap	MaximumAM-EntityNumberRLC-Cap	Class-definitions		
MaximumBitRate	MaximumBitRate	Class-definitions		
MaximumRLC_WindowSize	MaximumRLC-WindowSize	Class-definitions		
MaxNoDPDCH_BitsTransmitted	MaxNoDPDCH-BitsTransmitted	Class-definitions		
MaxNoBits	MaxNoBits	Class-definitions		
MaxNoPhysChBitsReceived	MaxNoPhysChBitsReceived	Class-definitions		
MaxNoSCCPCH_RL	MaxNoSCCPCH-RL	Class-definitions		
MaxNumberOfTF	MaxNumberOfTF	Class-definitions		
MaxNumberOfTFC_DL	MaxNumberOfTFC-DL	Class-definitions		
MaxNumberOfTFC_UL	MaxNumberOfTFC-UL	Class-definitions		
MaxPhysChPerFrame	MaxPhysChPerFrame	Class-definitions		
MaxPhysChPerSubFrame_r4	MaxPhysChPerSubFrame-r4	Class-definitions		
MaxPhysChPerTimeslot	MaxPhysChPerTimeslot	Class-definitions		
MaxPhysChPerTS	MaxPhysChPerTS	Class-definitions		
MaxSimultaneousCCTrCH_Count	MaxSimultaneousCCTrCH-Count	Class-definitions		
MaxSimultaneousTransChsDL	MaxSimultaneousTransChsDL	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
MaxSimultaneousTransChsUL	MaxSimultaneousTransChsUL	Class-definitions		
MaxTransportBlocksDL	MaxTransportBlocksDL	Class-definitions		
MaxTransportBlocksUL	MaxTransportBlocksUL	Class-definitions		
MaxTS_PerFrame	MaxTS-PerFrame	Class-definitions		
MaxTS_PerSubFrame_r4	MaxTS-PerSubFrame-r4	Class-definitions		
MeasurementCapability	MeasurementCapability	Class-definitions		
MeasurementCapabilityExt	MeasurementCapabilityExt	Class-definitions		
MeasurementCapability_r4_ext	MeasurementCapability-r4-ext	Class-definitions		
MessageAuthenticationCode	MessageAuthenticationCode	Class-definitions		
MinimumSF_DL	MinimumSF-DL	Class-definitions		
MinimumSF_UL	MinimumSF-UL	Class-definitions		
MultiModeCapability	MultiModeCapability	Class-definitions		
MultiRAT_Capability	MultiRAT-Capability	Class-definitions		
MultiModeRAT_Capability_v590ext	MultiModeRAT-Capability-v590ext	Class-definitions		
N_300	N-300	Class-definitions		
N_301	N-301	Class-definitions		
N_302	N-302	Class-definitions		
N_304	N-304	Class-definitions		
N_308	N-308	Class-definitions		
N_310	N-310	Class-definitions		
N_312	N-312	Class-definitions		
N_312ext	N-312ext	Class-definitions		
N_312_r5	N-312-r5	Class-definitions		
N_313	N-313	Class-definitions		
N_315	N-315	Class-definitions		
N_315ext	N-315ext	Class-definitions		
N_315_r5	N-315-r5	Class-definitions		
N_AccessFails	N-AccessFails	Class-definitions		
N_AP_RetransMax	N-AP-RetransMax	Class-definitions		
NetworkAssistedGPS_Supported	NetworkAssistedGPS-Supported	Class-definitions		
NF_BO_AllBusy	NF-BO-AllBusy	Class-definitions		
NF_BO_NoAICH	NF-BO-NoAICH	Class-definitions		
NF_BO_Mismatch	NF-BO-Mismatch	Class-definitions		
NS_BO_Busy	NS-BO-Busy	Class-definitions		
NS_IP	NS-IP	Class-definitions		
P_TMSI_and_RAI_GSM_MAP	P-TMSI-and-RAI-GSM-MAP	Class-definitions		
PagingCause	PagingCause	Class-definitions		
PagingRecord	PagingRecord	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
PagingRecord2_r5	PagingRecord2-r5	Class-definitions		
PagingRecordList	PagingRecordList	Class-definitions		
PagingRecord2List_r5	PagingRecord2List-r5	Class-definitions		
PDCP_Capability	PDCP-Capability	Class-definitions		
PDCP_Capability_r4_ext	PDCP-Capability-r4-ext	Class-definitions		
PDCP_Capability_r5_ext	PDCP-Capability-r5-ext	Class-definitions		
PhysicalChannelCapability	PhysicalChannelCapability	Class-definitions		
PhysicalChannelCapability_LCR_r4	PhysicalChannelCapability-LCR-r4	Class-definitions		
PhysicalChannelCapability_hspdsch_r5	PhysicalChannelCapability-hspdsch-r5	Class-definitions		
PNBSCH_Allocation_r4	PNBSCH-Allocation-r4	Class-definitions		
ProtocolErrorCause	ProtocolErrorCause	Class-definitions		
ProtocolErrorIndicator	ProtocolErrorIndicator	Class-definitions		
ProtocolErrorIndicatorWithMoreInfo	ProtocolErrorIndicatorWithMoreInfo	Class-definitions		
ProtocolErrorMoreInformation	ProtocolErrorMoreInformation	Class-definitions		
RadioFrequencyBandFDD	RadioFrequencyBandFDD	Class-definitions		
RadioFrequencyBandTDDList	RadioFrequencyBandTDDList	Class-definitions		
RadioFrequencyBandTDD	RadioFrequencyBandTDD	Class-definitions		
RadioFrequencyBandGSM	RadioFrequencyBandGSM	Class-definitions		
Rb_timer_indicator	Rb-timer-indicator	Class-definitions		
Re_EstablishmentTimer	Re-EstablishmentTimer	Class-definitions		
RedirectionInfo	RedirectionInfo	Class-definitions		
RejectionCause	RejectionCause	Class-definitions		
ReleaseCause	ReleaseCause	Class-definitions		
RF_Capability	RF-Capability	Class-definitions		
RF_Capability_r4_ext	RF-Capability-r4-ext	Class-definitions		
RLC_Capability	RLC-Capability	Class-definitions		
RLC_Capability_r5_ext	RLC-Capability-r5-ext	Class-definitions		
RRC_ConnectionReleaseInformation	RRC-ConnectionReleaseInformation	Class-definitions		
RRC_MessageSequenceNumber	RRC-MessageSequenceNumber	Class-definitions		
RRC_MessageSequenceNumberList	RRC-MessageSequenceNumberList	Class-definitions		
RRC_StateIndicator	RRC-StateIndicator	Class-definitions		
RRC_TransactionIdentifier	RRC-TransactionIdentifier	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
S_RNTI	S-RNTI	Class-definitions		
SecurityCapability	SecurityCapability	Class-definitions		
SimultaneousSCCPC H_DPCH_Reception	SimultaneousSCCPC H-DPCH-Reception	Class-definitions		
SRNC_Identity	SRNC-Identity	Class-definitions		
START_Value	START-Value	Class-definitions		
STARTList	STARTList	Class-definitions		
STARTSingle	STARTSingle	Class-definitions		
CapabilityUpdateRequi rement_r5	CapabilityUpdateRequi rement-r5	Class-definitions		
SystemSpecificCapUp dateReq	SystemSpecificCapUp dateReq	Class-definitions		
SystemSpecificCapUp dateReq_v590ext	SystemSpecificCapUp dateReq-v590ext	Class-definitions		
SystemSpecificCapUp dateReq_r5	SystemSpecificCapUp dateReq-r5	Class-definitions		
SystemSpecificCapUp dateReqList	SystemSpecificCapUp dateReqList	Class-definitions		
SystemSpecificCapUp dateReqList_r5	SystemSpecificCapUp dateReqList-r5	Class-definitions		
T_300	T-300	Class-definitions		
T_301	T-301	Class-definitions		
T_302	T-302	Class-definitions		
T_304	T-304	Class-definitions		
T_305	T-305	Class-definitions		
T_307	T-307	Class-definitions		
T_308	T-308	Class-definitions		
T_309	T-309	Class-definitions		
T_310	T-310	Class-definitions		
T_311	T-311	Class-definitions		
T_312	T-312	Class-definitions		
T_313	T-313	Class-definitions		
T_314	T-314	Class-definitions		
T_315	T-315	Class-definitions		
T_316	T-316	Class-definitions		
T_317	T-317	Class-definitions		
T_CPCH	T-CPCH	Class-definitions		
TMSI_and_LAI_GSM_ MAP	TMSI-and-LAI-GSM -MAP	Class-definitions		
TMSI_DS_41	TMSI-DS-41	Class-definitions		
TotalRLC_AM_Buffer Size	TotalRLC-AM-Buffer Size	Class-definitions		
TotalRLC_AM_Buffer Size_r5_ext	TotalRLC-AM-Buffer Size-r5-ext	Class-definitions		
TransmissionProbabilit y	TransmissionProbabilit y	Class-definitions		
TransportChannelCap ability	TransportChannelCap ability	Class-definitions		
TurboSupport	TurboSupport	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
TxRxFrequencySeparation	TxRxFrequencySeparation	Class-definitions		
U_RNTI	U-RNTI	Class-definitions		
U_RNTI_Group	U-RNTI-Group	Class-definitions		
UE_ConnTimersAndConstants	UE-ConnTimersAndConstants	Class-definitions		
UE_ConnTimersAndConstants_v3a0ext	UE-ConnTimersAndConstants-v3a0ext	Class-definitions		
UE_ConnTimersAndConstants_r5	UE-ConnTimersAndConstants-r5	Class-definitions		
UE_IdleTimersAndConstants	UE-IdleTimersAndConstants	Class-definitions		
UE_IdleTimersAndConstants_v3a0ext	UE-IdleTimersAndConstants-v3a0ext	Class-definitions		
UE_MultiModeRAT_Capability	UE-MultiModeRAT-Capability	Class-definitions		
UE_PowerClass	UE-PowerClass	Class-definitions		
UE_PowerClassExt	UE-PowerClassExt	Class-definitions		
UE_RadioAccessCapability	UE-RadioAccessCapability	Class-definitions		
UE_RadioAccessCapability_v370ext	UE-RadioAccessCapability-v370ext	Class-definitions		
UE_RadioAccessCapability_v380ext	UE-RadioAccessCapability-v380ext	Class-definitions		
UE_RadioAccessCapability_v3a0ext	UE-RadioAccessCapability-v3a0ext	Class-definitions		
UE_RadioAccessCapability_v3g0ext	UE-RadioAccessCapability-v3g0ext	Class-definitions		
UE_PositioningCapabilityExt_v380	UE-PositioningCapabilityExt-v380	Class-definitions		
UE_PositioningCapabilityExt_v3a0	UE-PositioningCapabilityExt-v3a0	Class-definitions		
UE_PositioningCapabilityExt_v3g0	UE-PositioningCapabilityExt-v3g0	Class-definitions		
UE_RadioAccessCapabilityBandFDDList	UE-RadioAccessCapabilityBandFDDList	Class-definitions		
UE_RadioAccessCapabilityBandFDD	UE-RadioAccessCapabilityBandFDD	Class-definitions		
UE_RadioAccessCapability_v4b0ext	UE-RadioAccessCapability-v4b0ext	Class-definitions		
UE_RadioAccessCapability_v590ext	UE-RadioAccessCapability-v590ext	Class-definitions		
UL_PhysChCapabilityFDD	UL-PhysChCapabilityFDD	Class-definitions		
UL_PhysChCapabilityTDD	UL-PhysChCapabilityTDD	Class-definitions		
UL_PhysChCapabilityTDD_LCR_r4	UL-PhysChCapabilityTDD-LCR-r4	Class-definitions		
UL_TransChCapability	UL-TransChCapability	Class-definitions		
UE_Positioning_Capability	UE-Positioning-Capability	Class-definitions		
URA_UpdateCause	URA-UpdateCause	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UTRAN_DRX_CycleLengthCoefficient	UTRAN-DRX-CycleLengthCoefficient	Class-definitions		
WaitTime	WaitTime	Class-definitions		
AlgorithmSpecificInfo	AlgorithmSpecificInfo	Class-definitions		
AlgorithmSpecificInfo_r4	AlgorithmSpecificInfo-r4	Class-definitions		
CID_InclusionInfo_r4	CID-InclusionInfo-r4	Class-definitions		
COUNT_C	COUNT-C	Class-definitions		
COUNT_C_MSB	COUNT-C-MSB	Class-definitions		
DefaultConfigIdentity_r5	DefaultConfigIdentity-r5	Class-definitions		
DefaultConfigMode	DefaultConfigMode	Class-definitions		
DL_AM_RLC_Mode	DL-AM-RLC-Mode	Class-definitions		
DL_AM_RLC_Mode_r5	DL-AM-RLC-Mode-r5	Class-definitions		
DL_CounterSynchronisationInfo	DL-CounterSynchronisationInfo	Class-definitions		
DL_CounterSynchronisationInfo_r5	DL-CounterSynchronisationInfo-r5	Class-definitions		
DL_LogicalChannelMapping	DL-LogicalChannelMapping	Class-definitions		
DL_LogicalChannelMapping_r5	DL-LogicalChannelMapping-r5	Class-definitions		
DL_LogicalChannelMappingList	DL-LogicalChannelMappingList	Class-definitions		
DL_LogicalChannelMappingList_r5	DL-LogicalChannelMappingList-r5	Class-definitions		
DL_RFC3095_r4	DL-RFC3095-r4	Class-definitions		
DL_RLC_Mode	DL-RLC-Mode	Class-definitions		
DL_RLC_Mode_r5	DL-RLC-Mode-r5	Class-definitions		
DL_RLC_StatusInfo	DL-RLC-StatusInfo	Class-definitions		
DL_TM_RLC_Mode	DL-TM-RLC-Mode	Class-definitions		
DL_TransportChannelType	DL-TransportChannelType	Class-definitions		
DL_TransportChannelType_r5	DL-TransportChannelType-r5	Class-definitions		
DL_UM_RLC_LI_size	DL-UM-RLC-LI-size	Class-definitions		
DL_UM_RLC_Mode_r5	DL-UM-RLC-Mode-r5	Class-definitions		
ExpectReordering	ExpectReordering	Class-definitions		
ExplicitDiscard	ExplicitDiscard	Class-definitions		
HeaderCompressionInfo	HeaderCompressionInfo	Class-definitions		
HeaderCompressionInfoList	HeaderCompressionInfoList	Class-definitions		
HeaderCompressionInfo_r4	HeaderCompressionInfo-r4	Class-definitions		
HeaderCompressionInfoList_r4	HeaderCompressionInfoList-r4	Class-definitions		
LogicalChannelIdentity	LogicalChannelIdentity	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
LosslessSRNS_Reloc Support	LosslessSRNS-Reloc Support	Class-definitions		
MAC_d_HFN_initial_value	MAC-d-HFN-initial-value	Class-definitions		
MAC_LogicalChannel Priority	MAC-LogicalChannel Priority	Class-definitions		
MaxDAT	MaxDAT	Class-definitions		
MaxDAT_Retransmissions	MaxDAT-Retransmissions	Class-definitions		
MaxMRW	MaxMRW	Class-definitions		
MaxPDCP_SN_WindowSize	MaxPDCP-SN-WindowSize	Class-definitions		
MaxRST	MaxRST	Class-definitions		
NoExplicitDiscard	NoExplicitDiscard	Class-definitions		
PDCP_Info	PDCP-Info	Class-definitions		
PDCP_Info_r4	PDCP-Info-r4	Class-definitions		
PDCP_InfoReconfig	PDCP-InfoReconfig	Class-definitions		
PDCP_InfoReconfig_r4	PDCP-InfoReconfig-r4	Class-definitions		
PDCP_PDU_Header	PDCP-PDU-Header	Class-definitions		
PDCP_SN_Info	PDCP-SN-Info	Class-definitions		
Poll_PDU	Poll-PDU	Class-definitions		
Poll_SDU	Poll-SDU	Class-definitions		
PollingInfo	PollingInfo	Class-definitions		
PollWindow	PollWindow	Class-definitions		
PredefinedConfigIdentity	PredefinedConfigIdentity	Class-definitions		
PredefinedConfigValueTag	PredefinedConfigValueTag	Class-definitions		
PredefinedRB_Configuration	PredefinedRB-Configuration	Class-definitions		
PreDefRadioConfiguration	PreDefRadioConfiguration	Class-definitions		
RAB_Info	RAB-Info	Class-definitions		
RAB_InformationList	RAB-InformationList	Class-definitions		
RAB_InformationReconfigList	RAB-InformationReconfigList	Class-definitions		
RAB_InformationReconfig	RAB-InformationReconfig	Class-definitions		
RAB_InformationSetup	RAB-InformationSetup	Class-definitions		
RAB_InformationSetup_r4	RAB-InformationSetup-r4	Class-definitions		
RAB_InformationSetup_r5	RAB-InformationSetup-r5	Class-definitions		
RAB_InformationSetupList	RAB-InformationSetupList	Class-definitions		
RAB_InformationSetupList_r4	RAB-InformationSetupList-r4	Class-definitions		
RAB_InformationSetupList_r5	RAB-InformationSetupList-r5	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
RB_ActivationTimeInfo	RB-ActivationTimeInfo	Class-definitions		
RB_ActivationTimeInfoList	RB-ActivationTimeInfoList	Class-definitions		
RB_COUNT_C_Information	RB-COUNT-C-Information	Class-definitions		
RB_COUNT_C_InformationList	RB-COUNT-C-InformationList	Class-definitions		
RB_COUNT_C_MSB_Information	RB-COUNT-C-MSB-Information	Class-definitions		
RB_COUNT_C_MSB_InformationList	RB-COUNT-C-MSB-InformationList	Class-definitions		
RB_Identity	RB-Identity	Class-definitions		
RB_IdentityList	RB-IdentityList	Class-definitions		
RB_InformationAffected	RB-InformationAffected	Class-definitions		
RB_InformationAffected_r5	RB-InformationAffected-r5	Class-definitions		
RB_InformationAffectedList	RB-InformationAffectedList	Class-definitions		
RB_InformationAffectedList_r5	RB-InformationAffectedList-r5	Class-definitions		
RB_InformationReconfig	RB-InformationReconfig	Class-definitions		
RB_InformationReconfig_r4	RB-InformationReconfig-r4	Class-definitions		
RB_InformationReconfig_r5	RB-InformationReconfig-r5	Class-definitions		
RB_InformationReconfigList	RB-InformationReconfigList	Class-definitions		
RB_InformationReconfigList_r4	RB-InformationReconfigList-r4	Class-definitions		
RB_InformationReconfigList_r5	RB-InformationReconfigList-r5	Class-definitions		
RB_InformationReleaseList	RB-InformationReleaseList	Class-definitions		
RB_InformationSetup	RB-InformationSetup	Class-definitions		
RB_InformationSetup_r4	RB-InformationSetup-r4	Class-definitions		
RB_InformationSetup_r5	RB-InformationSetup-r5	Class-definitions		
RB_InformationSetupList	RB-InformationSetupList	Class-definitions		
RB_InformationSetupList_r4	RB-InformationSetupList-r4	Class-definitions		
RB_InformationSetupList_r5	RB-InformationSetupList-r5	Class-definitions		
RB_MappingInfo	RB-MappingInfo	Class-definitions		
RB_MappingInfo_r5	RB-MappingInfo-r5	Class-definitions		
RB_MappingOption	RB-MappingOption	Class-definitions		
RB_MappingOption_r5	RB-MappingOption-r5	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
RB_PDCPContextRelocation	RB-PDCPContextRelocation	Class-definitions		
RB_PDCPContextRelocationList	RB-PDCPContextRelocationList	Class-definitions		
RB_StopContinue	RB-StopContinue	Class-definitions		
RB_WithPDCP_Info	RB-WithPDCP-Info	Class-definitions		
RB_WithPDCP_InfoList	RB-WithPDCP-InfoList	Class-definitions		
ReceivingWindowSize	ReceivingWindowSize	Class-definitions		
RFC2507_Info	RFC2507-Info	Class-definitions		
RFC3095_Info_r4	RFC3095-Info-r4	Class-definitions		
RLC_Info	RLC-Info	Class-definitions		
RLC_Info_r5	RLC-Info-r5	Class-definitions		
RLC_InfoChoice	RLC-InfoChoice	Class-definitions		
RLC_InfoChoice_r5	RLC-InfoChoice-r5	Class-definitions		
RLC_SequenceNumber	RLC-SequenceNumber	Class-definitions		
RLC_SizeInfo	RLC-SizeInfo	Class-definitions		
RLC_SizeExplicitList	RLC-SizeExplicitList	Class-definitions		
ROHC_Profile_r4	ROHC-Profile-r4	Class-definitions		
ROHC_ProfileList_r4	ROHC-ProfileList-r4	Class-definitions		
ROHC_PacketSize_r4	ROHC-PacketSize-r4	Class-definitions		
ROHC_PacketSizeList_r4	ROHC-PacketSizeList-r4	Class-definitions		
SRB_InformationSetup	SRB-InformationSetup	Class-definitions		
SRB_InformationSetup_r5	SRB-InformationSetup-r5	Class-definitions		
SRB_InformationSetupList	SRB-InformationSetupList	Class-definitions		
SRB_InformationSetupList_r5	SRB-InformationSetupList-r5	Class-definitions		
SRB_InformationSetupList2	SRB-InformationSetupList2	Class-definitions		
TimerDiscard	TimerDiscard	Class-definitions		
TimerEPC	TimerEPC	Class-definitions		
TimerMRW	TimerMRW	Class-definitions		
TimerPoll	TimerPoll	Class-definitions		
TimerPollPeriodic	TimerPollPeriodic	Class-definitions		
TimerPollProhibit	TimerPollProhibit	Class-definitions		
TimerRST	TimerRST	Class-definitions		
TimerStatusPeriodic	TimerStatusPeriodic	Class-definitions		
TimerStatusProhibit	TimerStatusProhibit	Class-definitions		
TransmissionRLC_Discard	TransmissionRLC-Discard	Class-definitions		
TransmissionWindowSize	TransmissionWindowSize	Class-definitions		
UL_AM_RLC_Mode	UL-AM-RLC-Mode	Class-definitions		
UL_CounterSynchronisationInfo	UL-CounterSynchronisationInfo	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UL_LogicalChannelMapping	UL-LogicalChannelMapping	Class-definitions		
UL_LogicalChannelMappingList	UL-LogicalChannelMappingList	Class-definitions		
UL_LogicalChannelMappings	UL-LogicalChannelMappings	Class-definitions		
UL_RFC3095_r4	UL-RFC3095-r4	Class-definitions		
UL_RLC_Mode	UL-RLC-Mode	Class-definitions		
UL_TM_RLC_Mode	UL-TM-RLC-Mode	Class-definitions		
UL_UM_RLC_Mode	UL-UM-RLC-Mode	Class-definitions		
UL_TransportChannelType	UL-TransportChannelType	Class-definitions		
AddOrReconfMAC_dFlow	AddOrReconfMAC-dFlow	Class-definitions		
AllowedTFC_List	AllowedTFC-List	Class-definitions		
AllowedTFI_List	AllowedTFI-List	Class-definitions		
BitModeRLC_SizeInfo	BitModeRLC-SizeInfo	Class-definitions		
BLER_QualityValue	BLER-QualityValue	Class-definitions		
ChannelCodingType	ChannelCodingType	Class-definitions		
CodingRate	CodingRate	Class-definitions		
CommonDynamicTF_Info	CommonDynamicTF-Info	Class-definitions		
CommonDynamicTF_Info_DynamicTTI	CommonDynamicTF-Info-DynamicTTI	Class-definitions		
CommonDynamicTF_InfoList	CommonDynamicTF-InfoList	Class-definitions		
CommonDynamicTF_InfoList_DynamicTTI	CommonDynamicTF-InfoList-DynamicTTI	Class-definitions		
CommonTransChTFS	CommonTransChTFS	Class-definitions		
CommonTransChTFS_LCR	CommonTransChTFS-LCR	Class-definitions		
CPCH_SetID	CPCH-SetID	Class-definitions		
CRC_Size	CRC-Size	Class-definitions		
DedicatedDynamicTF_Info	DedicatedDynamicTF-Info	Class-definitions		
DedicatedDynamicTF_Info_DynamicTTI	DedicatedDynamicTF-Info-DynamicTTI	Class-definitions		
DedicatedDynamicTF_InfoList	DedicatedDynamicTF-InfoList	Class-definitions		
DedicatedDynamicTF_InfoList_DynamicTTI	DedicatedDynamicTF-InfoList-DynamicTTI	Class-definitions		
DedicatedTransChTFS	DedicatedTransChTFS	Class-definitions		
DL_AddReconfTransChInfo2List	DL-AddReconfTransChInfo2List	Class-definitions		
DL_AddReconfTransChInfoList	DL-AddReconfTransChInfoList	Class-definitions		
DL_AddReconfTransChInfoList_r4	DL-AddReconfTransChInfoList-r4	Class-definitions		
DL_AddReconfTransChInfoList_r5	DL-AddReconfTransChInfoList-r5	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
DL_AddReconfTransChInformation	DL-AddReconfTransChInformation	Class-definitions		
DL_AddReconfTransChInformation_r4	DL-AddReconfTransChInformation-r4	Class-definitions		
DL_AddReconfTransChInformation_r5	DL-AddReconfTransChInformation-r5	Class-definitions		
DL_AddReconfTransChInformation2	DL-AddReconfTransChInformation2	Class-definitions		
DL_CommonTransChInfo	DL-CommonTransChInfo	Class-definitions		
DL_CommonTransChInfo_r4	DL-CommonTransChInfo-r4	Class-definitions		
DL_DeletedTransChInfoList	DL-DeletedTransChInfoList	Class-definitions		
DL_DeletedTransChInfoList_r5	DL-DeletedTransChInfoList-r5	Class-definitions		
DL_TransportChannelIdentity	DL-TransportChannelIdentity	Class-definitions		
DL_TransportChannelIdentity_r5	DL-TransportChannelIdentity-r5	Class-definitions		
DL_TrCH_Type	DL-TrCH-Type	Class-definitions		
DL_TrCH_TypeId1_r5	DL-TrCH-TypeId1-r5	Class-definitions		
DL_TrCH_TypeId2_r5	DL-TrCH-TypeId2-r5	Class-definitions		
DRAC_ClassIdentity	DRAC-ClassIdentity	Class-definitions		
DRAC_StaticInformation	DRAC-StaticInformation	Class-definitions		
DRAC_StaticInformationList	DRAC-StaticInformationList	Class-definitions		
ExplicitTFCS_Configuration	ExplicitTFCS-Configuration	Class-definitions		
GainFactor	GainFactor	Class-definitions		
GainFactorInformation	GainFactorInformation	Class-definitions		
HSDSCH_Info	HSDSCH-Info	Class-definitions		
HARQ_Info	HARQ-Info	Class-definitions		
HARQMemorySize	HARQMemorySize	Class-definitions		
IndividualDL_CCTrCH_Info	IndividualDL-CCTrCH-Info	Class-definitions		
IndividualDL_CCTrCH_InfoList	IndividualDL-CCTrCH-InfoList	Class-definitions		
IndividualUL_CCTrCH_Info	IndividualUL-CCTrCH-Info	Class-definitions		
IndividualUL_CCTrCH_InfoList	IndividualUL-CCTrCH-InfoList	Class-definitions		
LogicalChannelByRB	LogicalChannelByRB	Class-definitions		
LogicalChannelList	LogicalChannelList	Class-definitions		
MAC_d_FlowIdentityDCHandHSDSCH	MAC-d-FlowIdentityDCHandHSDSCH	Class-definitions		
MAC_d_FlowIdentity	MAC-d-FlowIdentity	Class-definitions		
MAC_d_PDU_SizeInfo_List	MAC-d-PDU-SizeInfo-List	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
MAC_d_PDUSizeInfo	MAC-d-PDUSizeInfo	Class-definitions		
MAC_hs_AddReconfQueue_List	MAC-hs-AddReconfQueue-List	Class-definitions		
MAC_hs_AddReconfQueue	MAC-hs-AddReconfQueue	Class-definitions		
MAC_hs_DelQueue_List	MAC-hs-DelQueue-List	Class-definitions		
MAC_hs_DelQueue	MAC-hs-DelQueue	Class-definitions		
MAC_hs_WindowSize	MAC-hs-WindowSize	Class-definitions		
NumberOfTbSizeAndTILList	NumberOfTbSizeAndTILList	Class-definitions		
MessType	MessType	Class-definitions		
Non_allowedTFC_List	Non-allowedTFC-List	Class-definitions		
NumberOfTransportBlocks	NumberOfTransportBlocks	Class-definitions		
OctetModeRLC_SizeInfoType1	OctetModeRLC-SizeInfoType1	Class-definitions		
OctetModeRLC_SizeInfoType2	OctetModeRLC-SizeInfoType2	Class-definitions		
PowerOffsetInformation	PowerOffsetInformation	Class-definitions		
PowerOffsetPp_m	PowerOffsetPp-m	Class-definitions		
PreDefTransChConfiguration	PreDefTransChConfiguration	Class-definitions		
QualityTarget	QualityTarget	Class-definitions		
RateMatchingAttribute	RateMatchingAttribute	Class-definitions		
ReferenceTFC_ID	ReferenceTFC-ID	Class-definitions		
RestrictedTrChInfo	RestrictedTrChInfo	Class-definitions		
RestrictedTrChInfoList	RestrictedTrChInfoList	Class-definitions		
SemistaticTF_Information	SemistaticTF-Information	Class-definitions		
SignalledGainFactors	SignalledGainFactors	Class-definitions		
SplitTFCI_Signalling	SplitTFCI-Signalling	Class-definitions		
SplitType	SplitType	Class-definitions		
T1_ReleaseTimer	T1-ReleaseTimer	Class-definitions		
TFC_Subset	TFC-Subset	Class-definitions		
TFC_SubsetList	TFC-SubsetList	Class-definitions		
TFC_Value	TFC-Value	Class-definitions		
TFCI_Field2_Information	TFCI-Field2-Information	Class-definitions		
TFCI_Range	TFCI-Range	Class-definitions		
TFCI_RangeList	TFCI-RangeList	Class-definitions		
TFCS	TFCS	Class-definitions		
TFCS_Identity	TFCS-Identity	Class-definitions		
TFCS_IdentityPlain	TFCS-IdentityPlain	Class-definitions		
TFCS_InfoForDSCH	TFCS-InfoForDSCH	Class-definitions		
TFCS_ReconfAdd	TFCS-ReconfAdd	Class-definitions		
TFCS_Removal	TFCS-Removal	Class-definitions		
TFCS_RemovalList	TFCS-RemovalList	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
TimeDurationBeforeRetry	TimeDurationBeforeRetry	Class-definitions		
TM_SignallingInfo	TM-SignallingInfo	Class-definitions		
TransmissionTimeInterval	TransmissionTimeInterval	Class-definitions		
TransmissionTimeValidity	TransmissionTimeValidity	Class-definitions		
TransportChannelIdentity	TransportChannelIdentity	Class-definitions		
TransportChannelIdentityDCHandDSCH	TransportChannelIdentityDCHandDSCH	Class-definitions		
TransportFormatSet	TransportFormatSet	Class-definitions		
TransportFormatSet_LCR	TransportFormatSet_LCR	Class-definitions		
UL_AddReconfTransChInfoList	UL-AddReconfTransChInfoList	Class-definitions		
UL_AddReconfTransChInformation	UL-AddReconfTransChInformation	Class-definitions		
UL_CommonTransChInfo	UL-CommonTransChInfo	Class-definitions		
UL_CommonTransChInfo_r4	UL-CommonTransChInfo-r4	Class-definitions		
UL_ControlledTrChList	UL-ControlledTrChList	Class-definitions		
UL_DeletedTransChInfoList	UL-DeletedTransChInfoList	Class-definitions		
UL_TransportChannelIdentity	UL-TransportChannelIdentity	Class-definitions		
UL_TrCH_Type	UL-TrCH-Type	Class-definitions		
USCH_TransportChannelsInfo	USCH-TransportChannelsInfo	Class-definitions		
ACK_NACK_repetitionFactor	ACK-NACK-repetitionFactor	Class-definitions		
AC_To_ASC_Mapping	AC-To-ASC-Mapping	Class-definitions		
AC_To_ASC_MappingTable	AC-To-ASC-MappingTable	Class-definitions		
AccessServiceClass_FDD	AccessServiceClass-FDD	Class-definitions		
AccessServiceClass_TDD	AccessServiceClass-TDD	Class-definitions		
AccessServiceClass_TDD_LCR_r4	AccessServiceClass-TDD-LCR-r4	Class-definitions		
AICH_Info	AICH-Info	Class-definitions		
AICH_PowerOffset	AICH-PowerOffset	Class-definitions		
AICH_TransmissionTiming	AICH-TransmissionTiming	Class-definitions		
AllocationPeriodInfo	AllocationPeriodInfo	Class-definitions		
Alpha	Alpha	Class-definitions		
AP_AICH_ChannelisationCode	AP-AICH-ChannelisationCode	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
AP_PreambleScramblingCode	AP-PreambleScramblingCode	Class-definitions		
AP_Signature	AP-Signature	Class-definitions		
AP_Signature_VCAM	AP-Signature-VCAM	Class-definitions		
AP_Subchannel	AP-Subchannel	Class-definitions		
ASCSetting_FDD	ASCSetting-FDD	Class-definitions		
ASCSetting_TDD	ASCSetting-TDD	Class-definitions		
ASCSetting_TDD_LC_R_r4	ASCSetting-TDD-LC-R-r4	Class-definitions		
AvailableAP_Signature_VCAMList	AvailableAP-Signature-VCAMList	Class-definitions		
AvailableAP_SignatureList	AvailableAP-SignatureList	Class-definitions		
AvailableAP_SubchannelList	AvailableAP-SubchannelList	Class-definitions		
AvailableMinimumSF_ListVCAM	AvailableMinimumSF-ListVCAM	Class-definitions		
AvailableMinimumSF_VCAM	AvailableMinimumSF-VCAM	Class-definitions		
AvailableSignatures	AvailableSignatures	Class-definitions		
AvailableSubChannelNumbers	AvailableSubChannelNumbers	Class-definitions		
BurstType	BurstType	Class-definitions		
Bler_Target	Bler-Target	Class-definitions		
CCTrCH_PowerControlInfo	CCTrCH-PowerControlInfo	Class-definitions		
CCTrCH_PowerControlInfo_r4	CCTrCH-PowerControlInfo-r4	Class-definitions		
CCTrCH_PowerControlInfo_r5	CCTrCH-PowerControlInfo-r5	Class-definitions		
CD_AccessSlotSubchannel	CD-AccessSlotSubchannel	Class-definitions		
CD_AccessSlotSubchannelList	CD-AccessSlotSubchannelList	Class-definitions		
CD_CA_ICH_ChannelisationCode	CD-CA-ICH-ChannelisationCode	Class-definitions		
CD_PreambleScramblingCode	CD-PreambleScramblingCode	Class-definitions		
CD_SignatureCode	CD-SignatureCode	Class-definitions		
CD_SignatureCodeList	CD-SignatureCodeList	Class-definitions		
CellAndChannelIdentity	CellAndChannelIdentity	Class-definitions		
CellParametersID	CellParametersID	Class-definitions		
Cfntargetsfnsframeoffset	Cfntargetsfnsframeoffset	Class-definitions		
ChannelAssignmentActive	ChannelAssignmentActive	Class-definitions		
ChannelisationCode256	ChannelisationCode256	Class-definitions		
ChannelReqParamsForUCSM	ChannelReqParamsForUCSM	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
ClosedLoopTimingAdj Mode	ClosedLoopTimingAdj Mode	Class-definitions		
CodeNumberDSCH	CodeNumberDSCH	Class-definitions		
CodeRange	CodeRange	Class-definitions		
CodeWordSet	CodeWordSet	Class-definitions		
CommonTimeslotInfo	CommonTimeslotInfo	Class-definitions		
CommonTimeslotInfoS CCPCH	CommonTimeslotInfoS CCPCH	Class-definitions		
ConstantValue	ConstantValue	Class-definitions		
ConstantValueTdd	ConstantValueTdd	Class-definitions		
CPCH_PersistenceLevels	CPCH-PersistenceLevels	Class-definitions		
CPCH_PersistenceLevelsList	CPCH-PersistenceLevelsList	Class-definitions		
CPCH_SetInfo	CPCH-SetInfo	Class-definitions		
CPCH_SetInfoList	CPCH-SetInfoList	Class-definitions		
CPCH_StatusIndicationMode	CPCH-StatusIndicationMode	Class-definitions		
CQI_RepetitionFactor	CQI-RepetitionFactor	Class-definitions		
CSICH_PowerOffset	CSICH-PowerOffset	Class-definitions		
DefaultDPCH_Offset ValueFDD	DefaultDPCH-Offset ValueFDD	Class-definitions		
DefaultDPCH_Offset ValueTDD	DefaultDPCH-Offset ValueTDD	Class-definitions		
DeltaPp_m	DeltaPp-m	Class-definitions		
DeltaCQI	DeltaCQI	Class-definitions		
DeltaNACK	DeltaNACK	Class-definitions		
DeltaACK	DeltaACK	Class-definitions		
DeltaSIR	DeltaSIR	Class-definitions		
DL_CCTrCh	DL-CCTrCh	Class-definitions		
DL_CCTrCh_r4	DL-CCTrCh-r4	Class-definitions		
DL_CCTrChList	DL-CCTrChList	Class-definitions		
DL_CCTrChList_r4	DL-CCTrChList-r4	Class-definitions		
DL_CCTrChListToRemove	DL-CCTrChListToRemove	Class-definitions		
DL_ChannelisationCode	DL-ChannelisationCode	Class-definitions		
DL_ChannelisationCodeList	DL-ChannelisationCodeList	Class-definitions		
DL_CommonInformation	DL-CommonInformation	Class-definitions		
DL_CommonInformation_r4	DL-CommonInformation-r4	Class-definitions		
DL_CommonInformation_r5	DL-CommonInformation-r5	Class-definitions		
DL_CommonInformationPredef	DL-CommonInformationPredef	Class-definitions		
DL_CompressedMode Method	DL-CompressedMode Method	Class-definitions		
DL_DPCH_InfoCommon	DL-DPCH-InfoCommon	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
DL_DPCH_InfoCom mon_r4	DL-DPCH-InfoCom mon-r4	Class-definitions		
DL_DPCH_InfoCom monPredef	DL-DPCH-InfoCom monPredef	Class-definitions		
DL_DPCH_InfoPerRL	DL-DPCH-InfoPerR L	Class-definitions		
DL_DPCH_InfoPerRL _r4	DL-DPCH-InfoPerR L-r4	Class-definitions		
DL_DPCH_InfoPerRL _r5	DL-DPCH-InfoPerR L-r5	Class-definitions		
DL_DPCH_PowerCo ntrollInfo	DL-DPCH-PowerCo ntrollInfo	Class-definitions		
DL_FrameType	DL-FrameType	Class-definitions		
DL_HSPDSCH_Infor mation	DL-HSPDSCH-Infor mation	Class-definitions		
DL_HSPDSCH_TS_C onfiguration	DL-HSPDSCH-TS- Configuration	Class-definitions		
DL_InformationPerRL	DL-InformationPerRL	Class-definitions		
DL_InformationPerRL _r4	DL-InformationPerRL -r4	Class-definitions		
DL_InformationPerRL _r5	DL-InformationPerRL -r5	Class-definitions		
DL_InformationPerRL _r5bis	DL-InformationPerRL -r5bis	Class-definitions		
DL_InformationPerRL _List	DL-InformationPerRL -List	Class-definitions		
DL_InformationPerRL _List_r4	DL-InformationPerRL -List-r4	Class-definitions		
DL_InformationPerRL _List_r5	DL-InformationPerRL -List-r5	Class-definitions		
DL_InformationPerRL _List_r5bis	DL-InformationPerRL -List-r5bis	Class-definitions		
DL_PDSCH_Informat ion	DL-PDSCH-Informa tion	Class-definitions		
DL_rate_matching_res triction	DL-rate-matching-res triction	Class-definitions		
DL_TPC_PowerOffse tPerRL	DL-TPC-PowerOffse tPerRL	Class-definitions		
DL_TPC_PowerOffse tPerRL_List	DL-TPC-PowerOffse tPerRL-List	Class-definitions		
DL_TS_Channelisatio nCode	DL-TS-Channelisatio nCode	Class-definitions		
DL_TS_Channelisatio nCodesShort	DL-TS-Channelisatio nCodesShort	Class-definitions		
DownlinkAdditionalTim eslots	DownlinkAdditionalTim eslots	Class-definitions		
DownlinkAdditionalTim eslots_LCR_r4	DownlinkAdditionalTim eslots-LCR-r4	Class-definitions		
DownlinkTimeslotsCod es	DownlinkTimeslotsCod es	Class-definitions		
DownlinkTimeslotsCod es_LCR_r4	DownlinkTimeslotsCod es-LCR-r4	Class-definitions		
DPC_Mode	DPC-Mode	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
DPCCH_PowerOffset	DPCCH-PowerOffset	Class-definitions		
DPCH_CompressedModelInfo	DPCH-CompressedModelInfo	Class-definitions		
DPCH_CompressedModelStatusInfo	DPCH-CompressedModelStatusInfo	Class-definitions		
DPCH_FrameOffset	DPCH-FrameOffset	Class-definitions		
DSCH_Mapping	DSCH-Mapping	Class-definitions		
DSCH_MappingList	DSCH-MappingList	Class-definitions		
DSCH_RadioLinkIdentifier	DSCH-RadioLinkIdentifier	Class-definitions		
DSCH_TransportChannelsInfo	DSCH-TransportChannelsInfo	Class-definitions		
DurationTimeInfo	DurationTimeInfo	Class-definitions		
DynamicPersistenceLevel	DynamicPersistenceLevel	Class-definitions		
DynamicPersistenceLevelList	DynamicPersistenceLevelList	Class-definitions		
DynamicPersistenceLevelTF_List	DynamicPersistenceLevelTF-List	Class-definitions		
FACH_PCH_Information	FACH-PCH-Information	Class-definitions		
FACH_PCH_InformationList	FACH-PCH-InformationList	Class-definitions		
Feedback_cycle	Feedback-cycle	Class-definitions		
FPACH_Info_r4	FPACH-Info-r4	Class-definitions		
FrequencyInfo	FrequencyInfo	Class-definitions		
FrequencyInfoFDD	FrequencyInfoFDD	Class-definitions		
FrequencyInfoTDD	FrequencyInfoTDD	Class-definitions		
HS_ChannelisationCode_LCR	HS-ChannelisationCode-LCR	Class-definitions		
HS_PDSCH_Midamble_Configuration_TDD128	HS-PDSCH-Midamble-Configuration-TDD128	Class-definitions		
HS_SCCH_Info	HS-SCCH-Info	Class-definitions		
HS_SCCH_Codes	HS-SCCH-Codes	Class-definitions		
HS_SCCH_TDD128	HS-SCCH-TDD128	Class-definitions		
HS_SICH_Configuration_TDD128	HS-SICH-Configuration-TDD128	Class-definitions		
HS_SCCH_TDD384	HS-SCCH-TDD384	Class-definitions		
HS_SICH_Configuration_TDD384	HS-SICH-Configuration-TDD384	Class-definitions		
HS_SICH_Power_Control_Info_TDD384	HS-SICH-Power-Control-Info-TDD384	Class-definitions		
IndividualTimeslotInfo	IndividualTimeslotInfo	Class-definitions		
IndividualTimeslotInfo_LCR_r4	IndividualTimeslotInfo-LCR-r4	Class-definitions		
IndividualTimeslotInfo_LCR_r4_ext	IndividualTimeslotInfo-LCR-r4-ext	Class-definitions		
IndividualTS_Interference	IndividualTS-Interference	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
IndividualTS_InterferenceList	IndividualTS-InterferenceList	Class-definitions		
ITP	ITP	Class-definitions		
NidentifyAbort	NidentifyAbort	Class-definitions		
MaxAllowedUL_TX_Power	MaxAllowedUL-TX-Power	Class-definitions		
MaxAvailablePCPCH_Number	MaxAvailablePCPCH-Number	Class-definitions		
MaxPowerIncrease_r4	MaxPowerIncrease-r4	Class-definitions		
MaxTFCI_Field2Value	MaxTFCI-Field2Value	Class-definitions		
Measurement_Feedback_Info	Measurement-Feedback-Info	Class-definitions		
MidambleConfigurationBurstType1and3	MidambleConfigurationBurstType1and3	Class-definitions		
MidambleConfigurationBurstType2	MidambleConfigurationBurstType2	Class-definitions		
MidambleShiftAndBurstType	MidambleShiftAndBurstType	Class-definitions		
MidambleShiftAndBurstType_LCR_r4	MidambleShiftAndBurstType-LCR-r4	Class-definitions		
MidambleShiftAndBurstType_DL	MidambleShiftAndBurstType-DL	Class-definitions		
MidambleShiftLong	MidambleShiftLong	Class-definitions		
MidambleShiftShort	MidambleShiftShort	Class-definitions		
MinimumSpreadingFactor	MinimumSpreadingFactor	Class-definitions		
MultiCodeInfo	MultiCodeInfo	Class-definitions		
N_EOT	N-EOT	Class-definitions		
N_GAP	N-GAP	Class-definitions		
N_PCH	N-PCH	Class-definitions		
N_StartMessage	N-StartMessage	Class-definitions		
NB01	NB01	Class-definitions		
NF_Max	NF-Max	Class-definitions		
NumberOfDPDCH	NumberOfDPDCH	Class-definitions		
NumberOfFBI_Bits	NumberOfFBI-Bits	Class-definitions		
OpenLoopPowerControl_TDD	OpenLoopPowerControl-TDD	Class-definitions		
OpenLoopPowerControl_IPDL_TDD_r4	OpenLoopPowerControl-IPDL-TDD-r4	Class-definitions		
PagingIndicatorLength	PagingIndicatorLength	Class-definitions		
PC_Preamble	PC-Preamble	Class-definitions		
PCP_Length	PCP-Length	Class-definitions		
PCPCH_ChannelInfo	PCPCH-ChannelInfo	Class-definitions		
PCPCH_ChannelInfoList	PCPCH-ChannelInfoList	Class-definitions		
PCPICH_UsageForChannelEst	PCPICH-UsageForChannelEst	Class-definitions		
PDSCH_CapacityAllocationInfo	PDSCH-CapacityAllocationInfo	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
PDSCH_CapacityAllocationInfo_r4	PDSCH-CapacityAllocationInfo-r4	Class-definitions		
PDSCH_CodeInfo	PDSCH-CodeInfo	Class-definitions		
PDSCH_CodeInfoList	PDSCH-CodeInfoList	Class-definitions		
PDSCH_CodeMap	PDSCH-CodeMap	Class-definitions		
PDSCH_CodeMapList	PDSCH-CodeMapList	Class-definitions		
PDSCH_CodeMapping	PDSCH-CodeMapping	Class-definitions		
PDSCH_Identity	PDSCH-Identity	Class-definitions		
PDSCH_Info	PDSCH-Info	Class-definitions		
PDSCH_Info_r4	PDSCH-Info-r4	Class-definitions		
PDSCH_Info_LCR_r4	PDSCH-Info-LCR-r4	Class-definitions		
PDSCH_PowerControlInfo	PDSCH-PowerControlInfo	Class-definitions		
PDSCH_SHO_DCH_Info	PDSCH-SHO-DCH-Info	Class-definitions		
PDSCH_SysInfo	PDSCH-SysInfo	Class-definitions		
PDSCH_SysInfo_HCR_r5	PDSCH-SysInfo-HCR-r5	Class-definitions		
PDSCH_SysInfo_LCR_r4	PDSCH-SysInfo-LCR-r4	Class-definitions		
PDSCH_SysInfoList	PDSCH-SysInfoList	Class-definitions		
PDSCH_SysInfoList_HCR_r5	PDSCH-SysInfoList-HCR-r5	Class-definitions		
PDSCH_SysInfoList_LCR_r4	PDSCH-SysInfoList-LCR-r4	Class-definitions		
PDSCH_SysInfoList_SFN	PDSCH-SysInfoList-SFN	Class-definitions		
PDSCH_SysInfoList_SFN_HCR_r5	PDSCH-SysInfoList-SFN-HCR-r5	Class-definitions		
PDSCH_SysInfoList_SFN_LCR_r4	PDSCH-SysInfoList-SFN-LCR-r4	Class-definitions		
PersistenceScalingFactor	PersistenceScalingFactor	Class-definitions		
PersistenceScalingFactorList	PersistenceScalingFactorList	Class-definitions		
PI_CountPerFrame	PI-CountPerFrame	Class-definitions		
PichChannelisationCodeList_LCR_r4	PichChannelisationCodeList-LCR-r4	Class-definitions		
PICH_Info	PICH-Info	Class-definitions		
PICH_Info_LCR_r4	PICH-Info-LCR-r4	Class-definitions		
PICH_PowerOffset	PICH-PowerOffset	Class-definitions		
PilotBits128	PilotBits128	Class-definitions		
PilotBits256	PilotBits256	Class-definitions		
MeasurementPowerOffset	MeasurementPowerOffset	Class-definitions		
PositionFixedOrFlexible	PositionFixedOrFlexible	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
PowerControlAlgorithm	PowerControlAlgorithm	Class-definitions		
PowerOffsetPilot_pdpdch	PowerOffsetPilot-pdpdch	Class-definitions		
PowerOffsetTPC_pdpdch	PowerOffsetTPC-pdpdch	Class-definitions		
PowerRampStep	PowerRampStep	Class-definitions		
PRACH_ChانCodes_LCR_r4	PRACH-ChانCodes-LCR-r4	Class-definitions		
PRACH_Definition_LCR_r4	PRACH-Definition-LCR-r4	Class-definitions		
PRACH_Midamble	PRACH-Midamble	Class-definitions		
PRACH_Partitioning	PRACH-Partitioning	Class-definitions		
PRACH_Partitioning_LCR_r4	PRACH-Partitioning-LCR-r4	Class-definitions		
PRACH_PowerOffset	PRACH-PowerOffset	Class-definitions		
PRACH_RACH_Info	PRACH-RACH-Info	Class-definitions		
PRACH_RACH_Info_LCR_r4	PRACH-RACH-Info-LCR-r4	Class-definitions		
PRACH_SystemInformation	PRACH-SystemInformation	Class-definitions		
PRACH_SystemInformation_LCR_r4	PRACH-SystemInformation-LCR-r4	Class-definitions		
PRACH_SystemInformationList	PRACH-SystemInformationList	Class-definitions		
PRACH_SystemInformationList_LCR_r4	PRACH-SystemInformationList-LCR-r4	Class-definitions		
PreambleRetransMax	PreambleRetransMax	Class-definitions		
PreambleScramblingCodeWordNumber	PreambleScramblingCodeWordNumber	Class-definitions		
PreDefPhyChConfiguration	PreDefPhyChConfiguration	Class-definitions		
PrimaryCCPCH_Info	PrimaryCCPCH-Info	Class-definitions		
PrimaryCCPCH_Info_r4	PrimaryCCPCH-Info-r4	Class-definitions		
PrimaryCCPCH_Info_LCR_r4	PrimaryCCPCH-Info-LCR-r4	Class-definitions		
PrimaryCCPCH_Info_LCR_r4_ext	PrimaryCCPCH-Info-LCR-r4-ext	Class-definitions		
PrimaryCCPCH_TX_Power	PrimaryCCPCH-TX-Power	Class-definitions		
PrimaryCPICH_Info	PrimaryCPICH-Info	Class-definitions		
PrimaryCPICH_TX_Power	PrimaryCPICH-TX-Power	Class-definitions		
PrimaryScramblingCode	PrimaryScramblingCode	Class-definitions		
PuncturingLimit	PuncturingLimit	Class-definitions		
PUSCH_CapacityAllocationInfo	PUSCH-CapacityAllocationInfo	Class-definitions		
PUSCH_CapacityAllocationInfo_r4	PUSCH-CapacityAllocationInfo-r4	Class-definitions		
PUSCH_Identity	PUSCH-Identity	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
PUSCH_Info	PUSCH-Info	Class-definitions		
PUSCH_Info_r4	PUSCH-Info-r4	Class-definitions		
PUSCH_Info_LCR_r4	PUSCH-Info-LCR-r4	Class-definitions		
PUSCH_PowerControlInfo_r4	PUSCH-PowerControlInfo-r4	Class-definitions		
PUSCH_SysInfo	PUSCH-SysInfo	Class-definitions		
PUSCH_SysInfo_HCR_r5	PUSCH-SysInfo-HCR-r5	Class-definitions		
PUSCH_SysInfo_LCR_r4	PUSCH-SysInfo-LCR-r4	Class-definitions		
PUSCH_SysInfoList	PUSCH-SysInfoList	Class-definitions		
PUSCH_SysInfoList_HCR_r5	PUSCH-SysInfoList-HCR-r5	Class-definitions		
PUSCH_SysInfoList_LCR_r4	PUSCH-SysInfoList-LCR-r4	Class-definitions		
PUSCH_SysInfoList_SFN	PUSCH-SysInfoList-SFN	Class-definitions		
PUSCH_SysInfoList_SFN_HCR_r5	PUSCH-SysInfoList-SFN-HCR-r5	Class-definitions		
PUSCH_SysInfoList_SFN_LCR_r4	PUSCH-SysInfoList-SFN-LCR-r4	Class-definitions		
RACH_TransmissionParameters	RACH-TransmissionParameters	Class-definitions		
RepetitionPeriodAndLength	RepetitionPeriodAndLength	Class-definitions		
RepetitionPeriodLengthAndOffset	RepetitionPeriodLengthAndOffset	Class-definitions		
ReplacedPDSCH_CodeInfo	ReplacedPDSCH-CodeInfo	Class-definitions		
ReplacedPDSCH_CodeInfoList	ReplacedPDSCH-CodeInfoList	Class-definitions		
RepPerLengthOffset_PICH	RepPerLengthOffset-PICH	Class-definitions		
RestrictedTrCH	RestrictedTrCH	Class-definitions		
RestrictedTrCH_InfoList	RestrictedTrCH-InfoList	Class-definitions		
RL_AdditionInformation	RL-AdditionInformation	Class-definitions		
RL_AdditionInformationList	RL-AdditionInformationList	Class-definitions		
RL_IdentifierList	RL-IdentifierList	Class-definitions		
RL_RemovalInformationList	RL-RemovalInformationList	Class-definitions		
RPP	RPP	Class-definitions		
S_Field	S-Field	Class-definitions		
SCCPCH_ChannelisationCode	SCCPCH-ChannelisationCode	Class-definitions		
SCCPCH_ChannelisationCodeList	SCCPCH-ChannelisationCodeList	Class-definitions		
SCCPCH_InfoForFACH	SCCPCH-InfoForFACH	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
SCCPCH_InfoForFA CH_r4	SCCPCH-InfoForFA CH-r4	Class-definitions		
SCCPCH_SystemInfo r4	SCCPCH-SystemInf ormation	Class-definitions		
SCCPCH_SystemInfo r4_ext	SCCPCH-SystemInf ormation-LCR-r4-ex t	Class-definitions		
SCCPCH_SystemInfo r4_List	SCCPCH-SystemInf ormationList	Class-definitions		
SCCPCH_SystemInfo r4_List_LCR_r4_ext	SCCPCH-SystemInf ormationList-LCR-r4 -ext	Class-definitions		
ScramblingCodeChan ge	ScramblingCodeChan ge	Class-definitions		
ScramblingCodeType	ScramblingCodeType	Class-definitions		
SecondaryCCPCH_In fo	SecondaryCCPCH-In fo	Class-definitions		
SecondaryCCPCH_In fo_r4	SecondaryCCPCH-In fo-r4	Class-definitions		
SecondaryCCPCH_In fo_LCR_r4_ext	SecondaryCCPCH-In fo-LCR-r4-ext	Class-definitions		
SecondaryCPICH_In fo	SecondaryCPICH-In fo	Class-definitions		
SecondaryScrambling Code	SecondaryScrambling Code	Class-definitions		
SecondInterleavingMo de	SecondInterleavingMo de	Class-definitions		
SF256_AndCodeNum ber	SF256-AndCodeNum ber	Class-definitions		
SF512_AndCodeNum ber	SF512-AndCodeNum ber	Class-definitions		
SF512_AndPilot	SF512-AndPilot	Class-definitions		
SF_PDSCH	SF-PDSCH	Class-definitions		
SF_PRACH	SF-PRACH	Class-definitions		
SFN_TimeInfo	SFN-TimeInfo	Class-definitions		
SpecialBurstSchedulin g	SpecialBurstSchedulin g	Class-definitions		
SpreadingFactor	SpreadingFactor	Class-definitions		
SRB_delay	SRB-delay	Class-definitions		
SSDT_CellIdentity	SSDT-CellIdentity	Class-definitions		
SSDT_Information	SSDT-Information	Class-definitions		
SSDT_Information_r4	SSDT-Information-r4	Class-definitions		
SSDT_UL	SSDT-UL	Class-definitions		
SynchronisationParam eters_r4	SynchronisationParam eters-r4	Class-definitions		
SYNC_UL_Procedure _r4	SYNC-UL-Procedure -r4	Class-definitions		
SYNC_UL_Info_r4	SYNC-UL-Info-r4	Class-definitions		
TDD_FPACH_CCode 16_r4	TDD-FPACH-CCode 16-r4	Class-definitions		
TDD_UL_Interference	TDD-UL-Interference	Class-definitions		
TDD_PICH_CCode	TDD-PICH-CCode	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
TDD_PRACH_CCode8	TDD-PRACH-CCode8	Class-definitions		
TDD_PRACH_CCode16	TDD-PRACH-CCode16	Class-definitions		
TDD_PRACH_CCode_LCR_r4	TDD-PRACH-CCode-LCR-r4	Class-definitions		
TDD_PRACH_CCodeList	TDD-PRACH-CCodeList	Class-definitions		
TFC_ControlDuration	TFC-ControlDuration	Class-definitions		
TFCI_Coding	TFCI-Coding	Class-definitions		
TGCFN	TGCFN	Class-definitions		
TGD	TGD	Class-definitions		
TGL	TGL	Class-definitions		
TGMP	TGMP	Class-definitions		
TGP_Sequence	TGP-Sequence	Class-definitions		
TGPS_Reconfiguration_CFN	TGPS-Reconfiguration-CFN	Class-definitions		
TGP_SequenceList	TGP-SequenceList	Class-definitions		
TGP_SequenceShort	TGP-SequenceShort	Class-definitions		
TGPL	TGPL	Class-definitions		
TGPRC	TGPRC	Class-definitions		
TGPS_ConfigurationParameters	TGPS-ConfigurationParameters	Class-definitions		
TGPSI	TGPSI	Class-definitions		
TGSN	TGSN	Class-definitions		
TimeInfo	TimeInfo	Class-definitions		
TimeslotList	TimeslotList	Class-definitions		
TimeslotList_r4	TimeslotList-r4	Class-definitions		
TimeslotNumber	TimeslotNumber	Class-definitions		
TimeslotNumber_LCR_r4	TimeslotNumber-LCR-r4	Class-definitions		
TimeslotNumber_PRA_CH_LCR_r4	TimeslotNumber-PRA-CH-LCR-r4	Class-definitions		
TimeslotSync2	TimeslotSync2	Class-definitions		
TimingOffset	TimingOffset	Class-definitions		
TPC_CombinationIndex	TPC-CombinationIndex	Class-definitions		
TPC_StepSizeFDD	TPC-StepSizeFDD	Class-definitions		
TPC_StepSizeTDD	TPC-StepSizeTDD	Class-definitions		
TreconfirmAbort	TreconfirmAbort	Class-definitions		
TX_DiversityMode	TX-DiversityMode	Class-definitions		
UARFCN	UARFCN	Class-definitions		
UCSM_Info	UCSM-Info	Class-definitions		
UL_CCTrCH	UL-CCTrCH	Class-definitions		
UL_CCTrCH_r4	UL-CCTrCH-r4	Class-definitions		
UL_CCTrCHList	UL-CCTrCHList	Class-definitions		
UL_CCTrCHList_r4	UL-CCTrCHList-r4	Class-definitions		
UL_CCTrCHListToRe-move	UL-CCTrCHListToRe-move	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UL_CCTrChTPCList	UL-CCTrChTPCList	Class-definitions		
UL_ChannelRequirement	UL-ChannelRequirement	Class-definitions		
UL_ChannelRequirement_r4	UL-ChannelRequirement-r4	Class-definitions		
UL_ChannelRequirement_r5	UL-ChannelRequirement-r5	Class-definitions		
UL_ChannelRequirementWithCPCH_SetID	UL-ChannelRequirementWithCPCH-SetID	Class-definitions		
UL_ChannelRequirementWithCPCH_SetID_r4	UL-ChannelRequirementWithCPCH-SetID-r4	Class-definitions		
UL_ChannelRequirementWithCPCH_SetID_r5	UL-ChannelRequirementWithCPCH-SetID-r5	Class-definitions		
UL_CompressedModeMethod	UL-CompressedModeMethod	Class-definitions		
UL_DL_Mode	UL-DL-Mode	Class-definitions		
UL_DPCCH_SlotFormat	UL-DPCCH-SlotFormat	Class-definitions		
UL_DPCH_Info	UL-DPCH-Info	Class-definitions		
UL_DPCH_Info_r4	UL-DPCH-Info-r4	Class-definitions		
UL_DPCH_Info_r5	UL-DPCH-Info-r5	Class-definitions		
UL_DPCH_InfoPredef	UL-DPCH-InfoPredef	Class-definitions		
UL_DPCH_PowerControlInfo	UL-DPCH-PowerControlInfo	Class-definitions		
UL_DPCH_PowerControlInfo_r4	UL-DPCH-PowerControlInfo-r4	Class-definitions		
UL_DPCH_PowerControlInfo_r5	UL-DPCH-PowerControlInfo-r5	Class-definitions		
UL_DPCH_PowerControlInfoPredef	UL-DPCH-PowerControlInfoPredef	Class-definitions		
UL_Interference	UL-Interference	Class-definitions		
UL_ScramblingCode	UL-ScramblingCode	Class-definitions		
UL_SynchronisationParameters_r4	UL-SynchronisationParameters-r4	Class-definitions		
UL_TargetSIR	UL-TargetSIR	Class-definitions		
UL_TimingAdvance	UL-TimingAdvance	Class-definitions		
UL_TimingAdvanceControl	UL-TimingAdvanceControl	Class-definitions		
UL_TimingAdvanceControl_r4	UL-TimingAdvanceControl-r4	Class-definitions		
UL_TS_ChannelisationCode	UL-TS-ChannelisationCode	Class-definitions		
UL_TS_ChannelisationCodeList	UL-TS-ChannelisationCodeList	Class-definitions		
UplinkAdditionalTimeslots	UplinkAdditionalTimeslots	Class-definitions		
UplinkAdditionalTimeslots_LCR_r4	UplinkAdditionalTimeslots-LCR-r4	Class-definitions		
UplinkTimeslotsCodes	UplinkTimeslotsCodes	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UplinkTimeslotsCodes_LCR_r4	UplinkTimeslotsCodes-LCR-r4	Class-definitions		
Wi_LCR	Wi-LCR	Class-definitions		
AcquisitionSatInfo	AcquisitionSatInfo	Class-definitions		
AcquisitionSatInfoList	AcquisitionSatInfoList	Class-definitions		
AdditionalMeasuremen tID_List	AdditionalMeasuremen tID-List	Class-definitions		
AlmanacSatInfo	AlmanacSatInfo	Class-definitions		
AlmanacSatInfoList	AlmanacSatInfoList	Class-definitions		
AverageRLC_BufferP ayload	AverageRLC-BufferP ayload	Class-definitions		
AzimuthAndElevation	AzimuthAndElevation	Class-definitions		
BadSatList	BadSatList	Class-definitions		
Frequency_Band	Frequency-Band	Class-definitions		
BCCH_ARFCN	BCCH-ARFCN	Class-definitions		
BLER_MeasurementR esults	BLER-MeasurementR esults	Class-definitions		
BLER_MeasurementR esultsList	BLER-MeasurementR esultsList	Class-definitions		
BLER_TransChIdList	BLER-TransChIdList	Class-definitions		
BSIC_VerificationReq uired	BSIC-VerificationReq uired	Class-definitions		
BSICReported	BSICReported	Class-definitions		
BurstModeParameters	BurstModeParameters	Class-definitions		
CellDCH_ReportCrite ria	CellDCH-ReportCrite ria	Class-definitions		
CellDCH_ReportCrite ria_LCR_r4	CellDCH-ReportCrite ria-LCR-r4	Class-definitions		
CellIndividualOffset	CellIndividualOffset	Class-definitions		
CellInfo	CellInfo	Class-definitions		
CellInfo_r4	CellInfo-r4	Class-definitions		
CellInfoSI_RSCP	CellInfoSI-RSCP	Class-definitions		
CellInfoSI_RSCP_LC R_r4	CellInfoSI-RSCP-LC R-r4	Class-definitions		
CellInfoSI_ECN0	CellInfoSI-ECN0	Class-definitions		
CellInfoSI_ECN0_LC R_r4	CellInfoSI-ECN0-LC R-r4	Class-definitions		
CellInfoSI_HCS_RSC P	CellInfoSI-HCS-RSC P	Class-definitions		
CellInfoSI_HCS_RSC P_LCR_r4	CellInfoSI-HCS-RSC P-LCR-r4	Class-definitions		
CellInfoSI_HCS_ECN 0	CellInfoSI-HCS-EC N0	Class-definitions		
CellInfoSI_HCS_ECN 0_LCR_r4	CellInfoSI-HCS-EC N0-LCR-r4	Class-definitions		
CellMeasuredResults	CellMeasuredResults	Class-definitions		
CellMeasurementEven tResults	CellMeasurementEven tResults	Class-definitions		
CellMeasurementEven tResults_LCR_r4	CellMeasurementEven tResults-LCR-r4	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
CellReportingQuantities	CellReportingQuantities	Class-definitions		
CellSelectReselectInfoSIB_11_12	CellSelectReselectInfoSIB-11-12	Class-definitions		
CellSelectReselectInfoSIB_11_12_RSCP	CellSelectReselectInfoSIB-11-12-RSCP	Class-definitions		
CellSelectReselectInfoSIB_11_12_ECN0	CellSelectReselectInfoSIB-11-12-ECN0	Class-definitions		
CellSelectReselectInfoSIB_11_12_HCS_RSCP	CellSelectReselectInfoSIB-11-12-HCS-RSCP	Class-definitions		
CellSelectReselectInfoSIB_11_12_HCS_ECN0	CellSelectReselectInfoSIB-11-12-HCS-ECN0	Class-definitions		
CellSelectReselectInfo_v590ext	CellSelectReselectInfo_v590ext	Class-definitions		
CellSelectReselectInfoPCHFACH_v5b0ext	CellSelectReselectInfoPCHFACH-v5b0ext	Class-definitions		
CellsForInterFreqMeasList	CellsForInterFreqMeasList	Class-definitions		
CellsForInterRATMeasList	CellsForInterRATMeasList	Class-definitions		
CellsForIntraFreqMeasList	CellsForIntraFreqMeasList	Class-definitions		
CellSynchronisationInfo	CellSynchronisationInfo	Class-definitions		
CellToReport	CellToReport	Class-definitions		
CellToReportList	CellToReportList	Class-definitions		
CodePhaseSearchWindow	CodePhaseSearchWindow	Class-definitions		
CountC_SFN_Frame_difference	CountC-SFN-Frame-difference	Class-definitions		
CPICH_Ec_N0	CPICH-Ec-N0	Class-definitions		
CPICH_RSCP	CPICH-RSCP	Class-definitions		
DeltaPRC	DeltaPRC	Class-definitions		
DeltaQrxlevmin	DeltaQrxlevmin	Class-definitions		
DeltaRSCP	DeltaRSCP	Class-definitions		
DeltaRSCPPerCell	DeltaRSCPPerCell	Class-definitions		
DeltaRRC	DeltaRRC	Class-definitions		
DGPS_CorrectionSatInfo	DGPS-CorrectionSatInfo	Class-definitions		
DGPS_CorrectionSatInfoList	DGPS-CorrectionSatInfoList	Class-definitions		
DiffCorrectionStatus	DiffCorrectionStatus	Class-definitions		
DL_TransportChannelBLER	DL-TransportChannelBLER	Class-definitions		
DopplerUncertainty	DopplerUncertainty	Class-definitions		
EllipsoidPoint	EllipsoidPoint	Class-definitions		
EllipsoidPointAltitude	EllipsoidPointAltitude	Class-definitions		
EllipsoidPointAltitudeEllipsoide	EllipsoidPointAltitudeEllipsoide	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
EllipsoidPointUncertCircle	EllipsoidPointUncertCircle	Class-definitions		
EllipsoidPointUncertEllipse	EllipsoidPointUncertEllipse	Class-definitions		
EnvironmentCharacterisation	EnvironmentCharacterisation	Class-definitions		
Event1a	Event1a	Class-definitions		
Event1a_r4	Event1a-r4	Class-definitions		
Event1a_LCR_r4	Event1a-LCR-r4	Class-definitions		
Event1b	Event1b	Class-definitions		
Event1b_r4	Event1b-r4	Class-definitions		
Event1b_LCR_r4	Event1b-LCR-r4	Class-definitions		
Event1c	Event1c	Class-definitions		
Event1e	Event1e	Class-definitions		
Event1f	Event1f	Class-definitions		
Event2a	Event2a	Class-definitions		
Event2b	Event2b	Class-definitions		
Event2c	Event2c	Class-definitions		
Event2d	Event2d	Class-definitions		
Event2e	Event2e	Class-definitions		
Event2f	Event2f	Class-definitions		
Event3a	Event3a	Class-definitions		
Event3b	Event3b	Class-definitions		
Event3c	Event3c	Class-definitions		
Event3d	Event3d	Class-definitions		
EventIDInterFreq	EventIDInterFreq	Class-definitions		
EventIDInterRAT	EventIDInterRAT	Class-definitions		
EventIDIntraFreq	EventIDIntraFreq	Class-definitions		
EventResults	EventResults	Class-definitions		
ExtraDopplerInfo	ExtraDopplerInfo	Class-definitions		
FACH_MeasurementOccasionInfo	FACH-MeasurementOccasionInfo	Class-definitions		
FACH_MeasurementOccasionInfo_LCR_r4_ext	FACH-MeasurementOccasionInfo-LCR-r4-ext	Class-definitions		
FilterCoefficient	FilterCoefficient	Class-definitions		
FineSFN_SFNN	FineSFN-SFNN	Class-definitions		
ForbiddenAffectCell	ForbiddenAffectCell	Class-definitions		
ForbiddenAffectCell_r4	ForbiddenAffectCell-r4	Class-definitions		
ForbiddenAffectCell_LCR_r4	ForbiddenAffectCell-LCR-r4	Class-definitions		
ForbiddenAffectCellList	ForbiddenAffectCellList	Class-definitions		
ForbiddenAffectCellList_r4	ForbiddenAffectCellList-r4	Class-definitions		
ForbiddenAffectCellList_LCR_r4	ForbiddenAffectCellList-LCR-r4	Class-definitions		
FreqQualityEstimateQuantity_FDD	FreqQualityEstimateQuantity-FDD	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
FreqQualityEstimateQuantity_TDD	FreqQualityEstimateQuantity-TDD	Class-definitions		
GPS_MeasurementParam	GPS-MeasurementParam	Class-definitions		
GPS_MeasurementParamList	GPS-MeasurementParamList	Class-definitions		
GSM_CarrierRSSI	GSM-CarrierRSSI	Class-definitions		
GSM_MeasuredResults	GSM-MeasuredResults	Class-definitions		
GSM_MeasuredResultsList	GSM-MeasuredResultsList	Class-definitions		
GPS_TOW_1msec	GPS-TOW-1msec	Class-definitions		
GPS_TOW_Assist	GPS-TOW-Assist	Class-definitions		
GPS_TOW_AssistList	GPS-TOW-AssistList	Class-definitions		
HCS_CellReselectInformation_RSCP	HCS-CellReselectInformation-RSCP	Class-definitions		
HCS_CellReselectInformation_ECN0	HCS-CellReselectInformation-ECN0	Class-definitions		
HCS_NeighbouringCellInformation_RSCP	HCS-NeighbouringCellInformation-RSCP	Class-definitions		
HCS_NeighbouringCellInformation_ECN0	HCS-NeighbouringCellInformation-ECN0	Class-definitions		
HCS_PRIO	HCS-PRIO	Class-definitions		
HCS_ServingCellInformation	HCS-ServingCellInformation	Class-definitions		
Hysteresis	Hysteresis	Class-definitions		
HysteresisInterFreq	HysteresisInterFreq	Class-definitions		
InterFreqCell	InterFreqCell	Class-definitions		
InterFreqCell_LCR_r4	InterFreqCell-LCR-r4	Class-definitions		
InterFreqCellID	InterFreqCellID	Class-definitions		
InterFreqCellInfoList	InterFreqCellInfoList	Class-definitions		
InterFreqCellInfoList_r4	InterFreqCellInfoList-r4	Class-definitions		
InterFreqCellInfoSI_List_RSCP	InterFreqCellInfoSI-List-RSCP	Class-definitions		
InterFreqCellInfoSI_List_ECN0	InterFreqCellInfoSI-List-ECN0	Class-definitions		
InterFreqCellInfoSI_List_HCS_RSCP	InterFreqCellInfoSI-List-HCS-RSCP	Class-definitions		
InterFreqCellInfoSI_List_HCS_ECN0	InterFreqCellInfoSI-List-HCS-ECN0	Class-definitions		
InterFreqCellInfoSI_List_RSCP_LCR	InterFreqCellInfoSI-List-RSCP-LCR	Class-definitions		
InterFreqCellInfoSI_List_ECN0_LCR	InterFreqCellInfoSI-List-ECN0-LCR	Class-definitions		
InterFreqCellInfoSI_List_HCS_RSCP_LCR	InterFreqCellInfoSI-List-HCS-RSCP-LCR	Class-definitions		
InterFreqCellInfoSI_List_HCS_ECN0_LCR	InterFreqCellInfoSI-List-HCS-ECN0-LCR	Class-definitions		
InterFreqCellList	InterFreqCellList	Class-definitions		
InterFreqCellList_LCR_r4_ext	InterFreqCellList-LCR-r4-ext	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
InterFreqCellMeasuredResultsList	InterFreqCellMeasuredResultsList	Class-definitions		
InterFreqEvent	InterFreqEvent	Class-definitions		
InterFreqEventList	InterFreqEventList	Class-definitions		
InterFrequencyMeasuredResultsList_v590ext	InterFrequencyMeasuredResultsList-v590ext	Class-definitions		
Inter_FreqEventCriteria_v590ext	Inter-FreqEventCriteria-v590ext	Class-definitions		
Inter_FreqEventCriteriaList_v590ext	Inter-FreqEventCriteriaList-v590ext	Class-definitions		
Intra_FreqEventCriteriaList_v590ext	Intra-FreqEventCriteriaList-v590ext	Class-definitions		
IntraFrequencyMeasuredResultsList_v590ext	IntraFrequencyMeasuredResultsList-v590ext	Class-definitions		
IntraFreqReportingCriteria_1b_r5	IntraFreqReportingCriteria-1b-r5	Class-definitions		
PeriodicReportingInfo_1b	PeriodicReportingInfo-1b	Class-definitions		
InterFreqEventResults	InterFreqEventResults	Class-definitions		
InterFreqEventResults_LCR_r4_ext	InterFreqEventResults-LCR-r4-ext	Class-definitions		
InterFreqMeasQuantity	InterFreqMeasQuantity	Class-definitions		
InterFreqMeasuredResults	InterFreqMeasuredResults	Class-definitions		
InterFreqMeasuredResultsList	InterFreqMeasuredResultsList	Class-definitions		
InterFreqMeasurementSysInfo_RSCP	InterFreqMeasurementSysInfo-RSCP	Class-definitions		
InterFreqMeasurementSysInfo_ECN0	InterFreqMeasurementSysInfo-ECN0	Class-definitions		
InterFreqMeasurementSysInfo_HCS_RSCP	InterFreqMeasurementSysInfo-HCS-RSCP	Class-definitions		
InterFreqMeasurementSysInfo_HCS_ECN0	InterFreqMeasurementSysInfo-HCS-ECN0	Class-definitions		
InterFreqMeasurementSysInfo_RSCP_LCR_r4	InterFreqMeasurementSysInfo-RSCP-LCR-r4	Class-definitions		
InterFreqMeasurementSysInfo_ECN0_LCR_r4	InterFreqMeasurementSysInfo-ECN0-LCR-r4	Class-definitions		
InterFreqMeasurementSysInfo_HCS_RSCP_LCR_r4	InterFreqMeasurementSysInfo-HCS-RSCP-LCR-r4	Class-definitions		
InterFreqMeasurementSysInfo_HCS_ECN0_LCR_r4	InterFreqMeasurementSysInfo-HCS-ECN0-LCR-r4	Class-definitions		
InterFreqReportCriteria	InterFreqReportCriteria	Class-definitions		
InterFreqReportCriteria_r4	InterFreqReportCriteria-r4	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
InterFreqReportingCriteria	InterFreqReportingCriteria	Class-definitions		
InterFreqReportingQuantity	InterFreqReportingQuantity	Class-definitions		
InterFrequencyMeasurement	InterFrequencyMeasurement	Class-definitions		
InterFrequencyMeasurement_r4	InterFrequencyMeasurement-r4	Class-definitions		
InterRAT_TargetCellDescription	InterRAT-TargetCellDescription	Class-definitions		
InterRATCellID	InterRATCellID	Class-definitions		
InterRATCellInfoIndication	InterRATCellInfoIndication	Class-definitions		
InterRATCellInfoList	InterRATCellInfoList	Class-definitions		
InterRATCellInfoList_B	InterRATCellInfoList-B	Class-definitions		
InterRATCellInfoList_r4	InterRATCellInfoList-r4	Class-definitions		
InterRATCellIndividualOffset	InterRATCellIndividualOffset	Class-definitions		
InterRATEvent	InterRATEvent	Class-definitions		
InterRATEventList	InterRATEventList	Class-definitions		
InterRATEventResults	InterRATEventResults	Class-definitions		
InterRATInfo	InterRATInfo	Class-definitions		
InterRATMeasQuantity	InterRATMeasQuantity	Class-definitions		
InterRATMeasuredResults	InterRATMeasuredResults	Class-definitions		
InterRATMeasuredResultsList	InterRATMeasuredResultsList	Class-definitions		
InterRATMeasurement	InterRATMeasurement	Class-definitions		
InterRATMeasurement_r4	InterRATMeasurement-r4	Class-definitions		
InterRATMeasurementSysInfo	InterRATMeasurementSysInfo	Class-definitions		
InterRATMeasurementSysInfo_B	InterRATMeasurementSysInfo-B	Class-definitions		
InterRATReportCriteria	InterRATReportCriteria	Class-definitions		
InterRATReportingCriteria	InterRATReportingCriteria	Class-definitions		
InterRATReportingQuantity	InterRATReportingQuantity	Class-definitions		
IntraFreqCellID	IntraFreqCellID	Class-definitions		
IntraFreqCellInfoList	IntraFreqCellInfoList	Class-definitions		
IntraFreqCellInfoList_r4	IntraFreqCellInfoList-r4	Class-definitions		
IntraFreqCellInfoSI_List_RSCP	IntraFreqCellInfoSI-List-RSCP	Class-definitions		
IntraFreqCellInfoSI_List_ECN0	IntraFreqCellInfoSI-List-ECN0	Class-definitions		
IntraFreqCellInfoSI_List_HCS_RSCP	IntraFreqCellInfoSI-List-HCS-RSCP	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
IntraFreqCellInfoSI_List_HCS_ECN0	IntraFreqCellInfoSI_List-HCS-ECN0	Class-definitions		
IntraFreqCellInfoSI_List_RSCP_LCR_r4	IntraFreqCellInfoSI_List-RSCP-LCR-r4	Class-definitions		
IntraFreqCellInfoSI_List_ECN0_LCR_r4	IntraFreqCellInfoSI_List-ECN0-LCR-r4	Class-definitions		
IntraFreqCellInfoSI_List_HCS_RSCP_LCR_r4	IntraFreqCellInfoSI_List-HCS-RSCP-LCR-r4	Class-definitions		
IntraFreqCellInfoSI_List_HCS_ECN0_LCR_r4	IntraFreqCellInfoSI_List-HCS-ECN0-LCR-r4	Class-definitions		
IntraFreqEvent	IntraFreqEvent	Class-definitions		
IntraFreqEvent_r4	IntraFreqEvent-r4	Class-definitions		
IntraFreqEvent_LCR_r4	IntraFreqEvent-LCR-r4	Class-definitions		
IntraFreqEvent_1d_r5	IntraFreqEvent-1d-r5	Class-definitions		
IntraFreqEventCriteria	IntraFreqEventCriteria	Class-definitions		
IntraFreqEventCriteria_r4	IntraFreqEventCriteria-r4	Class-definitions		
IntraFreqEventCriteria_LCR_r4	IntraFreqEventCriteria-LCR-r4	Class-definitions		
IntraFreqEventCriteriaList	IntraFreqEventCriteriaList	Class-definitions		
IntraFreqEventCriteriaList_r4	IntraFreqEventCriteriaList-r4	Class-definitions		
IntraFreqEventCriteriaList_LCR_r4	IntraFreqEventCriteriaList-LCR-r4	Class-definitions		
IntraFreqEventResults	IntraFreqEventResults	Class-definitions		
IntraFreqMeasQuantity	IntraFreqMeasQuantity	Class-definitions		
IntraFreqMeasQuantity_FDD	IntraFreqMeasQuantity-FDD	Class-definitions		
IntraFreqMeasQuantity_TDD	IntraFreqMeasQuantity-TDD	Class-definitions		
IntraFreqMeasQuantity_TDDList	IntraFreqMeasQuantity-TDDList	Class-definitions		
IntraFreqMeasuredResultsList	IntraFreqMeasuredResultsList	Class-definitions		
IntraFreqMeasurementSysInfo_RSCP	IntraFreqMeasurementSysInfo-RSCP	Class-definitions		
IntraFreqMeasurementSysInfo_ECN0	IntraFreqMeasurementSysInfo-ECN0	Class-definitions		
IntraFreqMeasurementSysInfo_HCS_RSCP	IntraFreqMeasurementSysInfo-HCS-RSCP	Class-definitions		
IntraFreqMeasurementSysInfo_HCS_ECN0	IntraFreqMeasurementSysInfo-HCS-ECN0	Class-definitions		
IntraFreqMeasurementSysInfo_RSCP_LCR_r4	IntraFreqMeasurementSysInfo-RSCP-LCR-r4	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
IntraFreqMeasurement SysInfo_ECN0_LCR_ r4	IntraFreqMeasurement SysInfo-ECN0-LCR- r4	Class-definitions		
IntraFreqMeasurement SysInfo_HCS_RSCP_ _LCR_r4	IntraFreqMeasurement SysInfo-HCS-RSCP- LCR-r4	Class-definitions		
IntraFreqMeasurement SysInfo_HCS_ECN0_ _LCR_r4	IntraFreqMeasurement SysInfo-HCS-ECN0- LCR-r4	Class-definitions		
IntraFreqReportCriteri a	IntraFreqReportCriteri a	Class-definitions		
IntraFreqReportCriteri a_r4	IntraFreqReportCriteri a-r4	Class-definitions		
IntraFreqReportingCri teria	IntraFreqReportingCri teria	Class-definitions		
IntraFreqReportingCri teria_r4	IntraFreqReportingCri teria-r4	Class-definitions		
IntraFreqReportingCri teria_LCR_r4	IntraFreqReportingCri teria-LCR-r4	Class-definitions		
IntraFreqReportingQu antity	IntraFreqReportingQu antity	Class-definitions		
IntraFreqReportingQu antityForRACH	IntraFreqReportingQu antityForRACH	Class-definitions		
IntraFreqRepQuantity RACH_FDD	IntraFreqRepQuantity RACH-FDD	Class-definitions		
IntraFreqRepQuantity RACH_TDD	IntraFreqRepQuantity RACH-TDD	Class-definitions		
IntraFreqRepQuantity RACH_TDDList	IntraFreqRepQuantity RACH-TDDList	Class-definitions		
IntraFrequencyMeasur ement	IntraFrequencyMeasur ement	Class-definitions		
IntraFrequencyMeasur ement_r4	IntraFrequencyMeasur ement-r4	Class-definitions		
IODE	IODE	Class-definitions		
IP_Length	IP-Length	Class-definitions		
IP_PCCPCH_r4	IP-PCCPCH-r4	Class-definitions		
IP_Spacing	IP-Spacing	Class-definitions		
IP_Spacing_TDD	IP-Spacing-TDD	Class-definitions		
IS_2000SpecificMeasl nfo	IS-2000SpecificMeasl nfo	Class-definitions		
MaxNumberOfReporti ngCellsType1	MaxNumberOfReporti ngCellsType1	Class-definitions		
MaxNumberOfReporti ngCellsType2	MaxNumberOfReporti ngCellsType2	Class-definitions		
MaxNumberOfReporti ngCellsType3	MaxNumberOfReporti ngCellsType3	Class-definitions		
MaxReportedCellsOn RACH	MaxReportedCellsOn RACH	Class-definitions		
MeasuredResults	MeasuredResults	Class-definitions		
MeasuredResults_v39 0ext	MeasuredResults-v39 0ext	Class-definitions		
MeasuredResults_v59 0ext	MeasuredResults-v59 0ext	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
MeasuredResults_LCR_r4	MeasuredResults-LCR-r4	Class-definitions		
MeasuredResultsList	MeasuredResultsList	Class-definitions		
MeasuredResultsList_LCR_r4_ext	MeasuredResultsList-LCR-r4-ext	Class-definitions		
MeasuredResultsOnRACH	MeasuredResultsOnRACH	Class-definitions		
MeasurementCommand	MeasurementCommand	Class-definitions		
MeasurementCommand_r4	MeasurementCommand-r4	Class-definitions		
MeasurementControlSysInfo	MeasurementControlSysInfo	Class-definitions		
MeasurementControlSysInfo_LCR_r4_ext	MeasurementControlSysInfo-LCR-r4-ext	Class-definitions		
MeasurementIdentity	MeasurementIdentity	Class-definitions		
MeasurementQuantityGSM	MeasurementQuantityGSM	Class-definitions		
MeasurementReportingMode	MeasurementReportingMode	Class-definitions		
MeasurementType	MeasurementType	Class-definitions		
MeasurementType_r4	MeasurementType-r4	Class-definitions		
MeasurementValidity	MeasurementValidity	Class-definitions		
MonitoredCellRACH_List	MonitoredCellRACH-List	Class-definitions		
MonitoredCellRACH_Result	MonitoredCellRACH-Result	Class-definitions		
MultipathIndicator	MultipathIndicator	Class-definitions		
N_CR_T_CRMMaxHyst	N-CR-T-CRMMaxHyst	Class-definitions		
NavigationModelSatInfo	NavigationModelSatInfo	Class-definitions		
NavigationModelSatInfoList	NavigationModelSatInfoList	Class-definitions		
EphemerisParameterNC_Mode	EphemerisParameterNC-Mode	Class-definitions		
Neighbour	Neighbour	Class-definitions		
Neighbour_v390ext	Neighbour-v390ext	Class-definitions		
NeighbourList	NeighbourList	Class-definitions		
NeighbourList_v390ext	NeighbourList-v390ext	Class-definitions		
NeighbourQuality	NeighbourQuality	Class-definitions		
NewInterFreqCell	NewInterFreqCell	Class-definitions		
NewInterFreqCell_r4	NewInterFreqCell-r4	Class-definitions		
NewInterFreqCellList	NewInterFreqCellList	Class-definitions		
NewInterFreqCellList_r4	NewInterFreqCellList-r4	Class-definitions		
NewInterFreqCellSI_RSCP	NewInterFreqCellSI-RSCP	Class-definitions		
NewInterFreqCellSI_ECNO	NewInterFreqCellSI-ECNO	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
NewInterFreqCellSI_HCS_RSCP	NewInterFreqCellSI-HCS-RSCP	Class-definitions		
NewInterFreqCellSI_HCS_ECN0	NewInterFreqCellSI-HCS-ECN0	Class-definitions		
NewInterFreqCellSI_RSCP_LCR_r4	NewInterFreqCellSI-RSCP-LCR-r4	Class-definitions		
NewInterFreqCellSI_ECN0_LCR_r4	NewInterFreqCellSI-ECN0-LCR-r4	Class-definitions		
NewInterFreqCellSI_HCS_RSCP_LCR_r4	NewInterFreqCellSI-HCS-RSCP-LCR-r4	Class-definitions		
NewInterFreqCellSI_HCS_ECN0_LCR_r4	NewInterFreqCellSI-HCS-ECN0-LCR-r4	Class-definitions		
NewInterFreqCellSI_List_ECN0	NewInterFreqCellSI-List-ECN0	Class-definitions		
NewInterFreqCellSI_List_HCS_RSCP	NewInterFreqCellSI-List-HCS-RSCP	Class-definitions		
NewInterFreqCellSI_List_HCS_ECN0	NewInterFreqCellSI-List-HCS-ECN0	Class-definitions		
NewInterFreqCellSI_List_RSCP	NewInterFreqCellSI-List-RSCP	Class-definitions		
NewInterFreqCellSI_List_ECN0_LCR_r4	NewInterFreqCellSI-List-ECN0-LCR-r4	Class-definitions		
NewInterFreqCellSI_List_HCS_RSCP_LCR_r4	NewInterFreqCellSI-List-HCS-RSCP-LCR-r4	Class-definitions		
NewInterFreqCellSI_List_HCS_ECN0_LCR_r4	NewInterFreqCellSI-List-HCS-ECN0-LCR-r4	Class-definitions		
NewInterFreqCellSI_List_RSCP_LCR_r4	NewInterFreqCellSI-List-RSCP-LCR-r4	Class-definitions		
NewInterRATCell	NewInterRATCell	Class-definitions		
NewInterRATCell_B	NewInterRATCell-B	Class-definitions		
NewInterRATCellList	NewInterRATCellList	Class-definitions		
NewInterRATCellList_B	NewInterRATCellList-B	Class-definitions		
NewIntraFreqCell	NewIntraFreqCell	Class-definitions		
NewIntraFreqCell_r4	NewIntraFreqCell-r4	Class-definitions		
NewIntraFreqCellList	NewIntraFreqCellList	Class-definitions		
NewIntraFreqCellList_r4	NewIntraFreqCellList-r4	Class-definitions		
NewIntraFreqCellSI_RSCP	NewIntraFreqCellSI-RSCP	Class-definitions		
NewIntraFreqCellSI_ECN0	NewIntraFreqCellSI-ECN0	Class-definitions		
NewIntraFreqCellSI_HCS_RSCP	NewIntraFreqCellSI-HCS-RSCP	Class-definitions		
NewIntraFreqCellSI_HCS_ECN0	NewIntraFreqCellSI-HCS-ECN0	Class-definitions		
NewIntraFreqCellSI_RSCP_LCR_r4	NewIntraFreqCellSI-RSCP-LCR-r4	Class-definitions		
NewIntraFreqCellSI_ECN0_LCR_r4	NewIntraFreqCellSI-ECN0-LCR-r4	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
NewIntraFreqCellSI_HCS_RSCP_LCR_r4	NewIntraFreqCellSI-HCS-RSCP-LCR-r4	Class-definitions		
NewIntraFreqCellSI_HCS_ECN0_LCR_r4	NewIntraFreqCellSI-HCS-ECN0-LCR-r4	Class-definitions		
NewIntraFreqCellSI_List_RSCP	NewIntraFreqCellSI-List-RSCP	Class-definitions		
NewIntraFreqCellSI_List_ECN0	NewIntraFreqCellSI-List-ECN0	Class-definitions		
NewIntraFreqCellSI_List_HCS_RSCP	NewIntraFreqCellSI-List-HCS-RSCP	Class-definitions		
NewIntraFreqCellSI_List_HCS_ECN0	NewIntraFreqCellSI-List-HCS-ECN0	Class-definitions		
NewIntraFreqCellSI_List_RSCP_LCR_r4	NewIntraFreqCellSI-List-RSCP-LCR-r4	Class-definitions		
NewIntraFreqCellSI_List_ECN0_LCR_r4	NewIntraFreqCellSI-List-ECN0-LCR-r4	Class-definitions		
NewIntraFreqCellSI_List_HCS_RSCP_LCR_r4	NewIntraFreqCellSI-List-HCS-RSCP-LCR-r4	Class-definitions		
NewIntraFreqCellSI_List_HCS_ECN0_LCR_r4	NewIntraFreqCellSI-List-HCS-ECN0-LCR-r4	Class-definitions		
NonUsedFreqParameter	NonUsedFreqParameter	Class-definitions		
NonUsedFreqParameterList	NonUsedFreqParameterList	Class-definitions		
ObservedTimeDifferenceToGSM	ObservedTimeDifferenceToGSM	Class-definitions		
OTDOA_SearchWindowSize	OTDOA-SearchWindowSize	Class-definitions		
Pathloss	Pathloss	Class-definitions		
PenaltyTime_RSCP	PenaltyTime-RSCP	Class-definitions		
PenaltyTime_ECN0	PenaltyTime-ECN0	Class-definitions		
PendingTimeAfterTrigger	PendingTimeAfterTrigger	Class-definitions		
PeriodicalOrEventTrigger	PeriodicalOrEventTrigger	Class-definitions		
PeriodicalReportingCriteria	PeriodicalReportingCriteria	Class-definitions		
PeriodicalWithReportingCellStatus	PeriodicalWithReportingCellStatus	Class-definitions		
PLMNIdentitiesOfNeighbourCells	PLMNIdentitiesOfNeighbourCells	Class-definitions		
PLMNsOfInterFreqCellsList	PLMNsOfInterFreqCellsList	Class-definitions		
PLMNsOfIntraFreqCellsList	PLMNsOfIntraFreqCellsList	Class-definitions		
PLMNsOfInterRATCellsList	PLMNsOfInterRATCellsList	Class-definitions		
PositionEstimate	PositionEstimate	Class-definitions		
PositioningMethod	PositioningMethod	Class-definitions		
PRC	PRC	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
PrimaryCCPCH_RSCP	PrimaryCCPCH-RSCP	Class-definitions		
Q_HCS	Q-HCS	Class-definitions		
Q_OffsetS_N	Q-OffsetS-N	Class-definitions		
Q_QualMin	Q-QualMin	Class-definitions		
Q_RxlevMin	Q-RxlevMin	Class-definitions		
QualityEventResults	QualityEventResults	Class-definitions		
QualityMeasuredResults	QualityMeasuredResults	Class-definitions		
QualityMeasurement	QualityMeasurement	Class-definitions		
QualityReportCriteria	QualityReportCriteria	Class-definitions		
QualityReportingCriteria	QualityReportingCriteria	Class-definitions		
QualityReportingCriteriaSingle	QualityReportingCriteriaSingle	Class-definitions		
QualityReportingQuantity	QualityReportingQuantity	Class-definitions		
RAT_Type	RAT-Type	Class-definitions		
ReferenceCellPosition	ReferenceCellPosition	Class-definitions		
ReferenceLocation	ReferenceLocation	Class-definitions		
ReferenceTimeDifferenceToCell	ReferenceTimeDifferenceToCell	Class-definitions		
RemovedInterFreqCellList	RemovedInterFreqCellList	Class-definitions		
RemovedInterRATCellList	RemovedInterRATCellList	Class-definitions		
RemovedIntraFreqCellList	RemovedIntraFreqCellList	Class-definitions		
ReplacementActivationThreshold	ReplacementActivationThreshold	Class-definitions		
ReportDeactivationThreshold	ReportDeactivationThreshold	Class-definitions		
ReportingAmount	ReportingAmount	Class-definitions		
ReportingCellStatus	ReportingCellStatus	Class-definitions		
ReportingCellStatusOpt	ReportingCellStatusOpt	Class-definitions		
ReportingInfoForCellDCH	ReportingInfoForCellDCH	Class-definitions		
ReportingInfoForCellDCH_LCR_r4	ReportingInfoForCellDCH-LCR-r4	Class-definitions		
ReportingInterval	ReportingInterval	Class-definitions		
ReportingIntervalLong	ReportingIntervalLong	Class-definitions		
ReportingRange	ReportingRange	Class-definitions		
RL_AdditionInfoList	RL-AdditionInfoList	Class-definitions		
RL_InformationLists	RL-InformationLists	Class-definitions		
RLC_BuffersPayload	RLC-BuffersPayload	Class-definitions		
RRC	RRC	Class-definitions		
SatData	SatData	Class-definitions		
SatDataList	SatDataList	Class-definitions		
SatelliteStatus	SatelliteStatus	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
SatID	SatID	Class-definitions		
SFN_Offset_VValidity	SFN-Offset-Validity	Class-definitions		
SFN_SFNDrift	SFN-SFN-Drift	Class-definitions		
SFN_SFNObsTimeDifference	SFN-SFN-ObsTimeDifference	Class-definitions		
SFN_SFNObsTimeDifference1	SFN-SFN-ObsTimeDifference1	Class-definitions		
SFN_SFNObsTimeDifference2	SFN-SFN-ObsTimeDifference2	Class-definitions		
SFN_SFNOTD_Type	SFN-SFN-OTD-Type	Class-definitions		
SFN_SFNRelTimeDifference1	SFN-SFN-RelTimeDifference1	Class-definitions		
SFN_TOW_Uncertainty	SFN-TOW-Uncertainty	Class-definitions		
SIR	SIR	Class-definitions		
SIR_MeasurementList	SIR-MeasurementList	Class-definitions		
SIR_MeasurementResults	SIR-MeasurementResults	Class-definitions		
SIR_TFCS	SIR-TFCS	Class-definitions		
SIR_TFCS_List	SIR-TFCS-List	Class-definitions		
SIR_TimeslotList	SIR-TimeslotList	Class-definitions		
SubFrame1Reserved	SubFrame1Reserved	Class-definitions		
T_ADVinfo	T-ADVinfo	Class-definitions		
T_CRMax	T-CRMax	Class-definitions		
T_CRMaxHyst	T-CRMaxHyst	Class-definitions		
TemporaryOffset1	TemporaryOffset1	Class-definitions		
TemporaryOffset2	TemporaryOffset2	Class-definitions		
TemporaryOffsetList	TemporaryOffsetList	Class-definitions		
Threshold	Threshold	Class-definitions		
ThresholdNonUsedFrequency_deltaList	ThresholdNonUsedFrequency_deltaList	Class-definitions		
ThresholdPositionChange	ThresholdPositionChange	Class-definitions		
ThresholdSFN_GPS_TOW	ThresholdSFN-GPS-TOW	Class-definitions		
ThresholdSFN_SFNCChange	ThresholdSFN-SFN-Change	Class-definitions		
ThresholdUsedFrequency	ThresholdUsedFrequency	Class-definitions		
TimeInterval	TimeInterval	Class-definitions		
TimeslotInfo	TimeslotInfo	Class-definitions		
TimeslotInfo_LCR_r4	TimeslotInfo-LCR-r4	Class-definitions		
TimeslotInfoList	TimeslotInfoList	Class-definitions		
TimeslotInfoList_LCR_r4	TimeslotInfoList-LCR-r4	Class-definitions		
TimeslotInfoList_r4	TimeslotInfoList-r4	Class-definitions		
TimeslotISCP	TimeslotISCP	Class-definitions		
TimeslotISCP_List	TimeslotISCP-List	Class-definitions		
TimeslotListWithISCP	TimeslotListWithISCP	Class-definitions		
TimeslotWithISCP	TimeslotWithISCP	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
TimeToTrigger	TimeToTrigger	Class—definitions		
TrafficVolumeEventParam	TrafficVolumeEventParam	Class—definitions		
TrafficVolumeEventResults	TrafficVolumeEventResults	Class—definitions		
TrafficVolumeEventType	TrafficVolumeEventType	Class—definitions		
TrafficVolumeMeasQuantity	TrafficVolumeMeasQuantity	Class—definitions		
TrafficVolumeMeasSysInfo	TrafficVolumeMeasSysInfo	Class—definitions		
TrafficVolumeMeasureResults	TrafficVolumeMeasureResults	Class—definitions		
TrafficVolumeMeasureResultsList	TrafficVolumeMeasureResultsList	Class—definitions		
TrafficVolumeMeasurement	TrafficVolumeMeasurement	Class—definitions		
TrafficVolumeMeasurementObjectList	TrafficVolumeMeasurementObjectList	Class—definitions		
TrafficVolumeReportCriteria	TrafficVolumeReportCriteria	Class—definitions		
TrafficVolumeReportCriteriaSysInfo	TrafficVolumeReportCriteriaSysInfo	Class—definitions		
TrafficVolumeReportingCriteria	TrafficVolumeReportingCriteria	Class—definitions		
TrafficVolumeReportingQuantity	TrafficVolumeReportingQuantity	Class—definitions		
TrafficVolumeThreshold	TrafficVolumeThreshold	Class—definitions		
TransChCriteria	TransChCriteria	Class—definitions		
TransChCriteriaList	TransChCriteriaList	Class—definitions		
TransferMode	TransferMode	Class—definitions		
TransmittedPowerThreshold	TransmittedPowerThreshold	Class—definitions		
TriggeringCondition1	TriggeringCondition1	Class—definitions		
TriggeringCondition2	TriggeringCondition2	Class—definitions		
TX_InterruptionAfterTrigger	TX_InterruptionAfterTrigger	Class—definitions		
UDRE	UDRE	Class—definitions		
UE_6AB_Event	UE-6AB-Event	Class—definitions		
UE_6FG_Event	UE-6FG-Event	Class—definitions		
UE_AutonomousUpdateMode	UE-AutonomousUpdateMode	Class—definitions		
UE_InternalEventParam	UE-InternalEventParam	Class—definitions		
UE_InternalEventParamList	UE-InternalEventParamList	Class—definitions		
UE_InternalEventResults	UE-InternalEventResults	Class—definitions		
UE_InternalMeasQuantity	UE-InternalMeasQuantity	Class—definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UE_InternalMeasuredResults	UE-InternalMeasuredResults	Class-definitions		
UE_InternalMeasuredResults_LCR_r4	UE-InternalMeasuredResults-LCR-r4	Class-definitions		
UE_InternalMeasurement	UE-InternalMeasurement	Class-definitions		
UE_InternalMeasurement_r4	UE-InternalMeasurement-r4	Class-definitions		
UE_InternalMeasurementSysInfo	UE-InternalMeasurementSysInfo	Class-definitions		
UE_InternalReportCriteria	UE-InternalReportCriteria	Class-definitions		
UE_InternalReportingCriteria	UE-InternalReportingCriteria	Class-definitions		
UE_InternalReportingQuantity	UE-InternalReportingQuantity	Class-definitions		
UE_InternalReportingQuantity_r4	UE-InternalReportingQuantity-r4	Class-definitions		
UE_MeasurementQuantity	UE-MeasurementQuantity	Class-definitions		
UE_RX_TX_ReportEntry	UE-RX-TX-ReportEntry	Class-definitions		
UE_RX_TX_ReportEntryList	UE-RX-TX-ReportEntryList	Class-definitions		
UE_RX_TX_TimeDifferenceType1	UE-RX-TX-TimeDifferenceType1	Class-definitions		
UE_RX_TX_TimeDifferenceType2	UE-RX-TX-TimeDifferenceType2	Class-definitions		
UE_RX_TX_TimeDifferenceType2Info	UE-RX-TX-TimeDifferenceType2Info	Class-definitions		
UE_RX_TX_TimeDifferenceThreshold	UE-RX-TX-TimeDifferenceThreshold	Class-definitions		
UE_TransmittedPower	UE-TransmittedPower	Class-definitions		
UE_TransmittedPowerTDD_List	UE-TransmittedPowerTDD-List	Class-definitions		
UL_TrCH_Identity	UL-TrCH-Identity	Class-definitions		
UE_Positioning_Accuracy	UE-Positioning-Accuracy	Class-definitions		
UE_Positioning_CipherParameters	UE-Positioning-CipherParameters	Class-definitions		
UE_Positioning_Error	UE-Positioning-Error	Class-definitions		
UE_Positioning_ErrorCause	UE-Positioning-ErrorCause	Class-definitions		
UE_Positioning_EventParam	UE-Positioning-EventParam	Class-definitions		
UE_Positioning_EventParamList	UE-Positioning-EventParamList	Class-definitions		
UE_Positioning_EventSpecificInfo	UE-Positioning-EventSpecificInfo	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UE_Positioning_GPS_AcquisitionAssistance	UE-Positioning-GPS-AcquisitionAssistance	Class-definitions		
UE_Positioning_GPS_AdditionalAssistanceDataRequest	UE-Positioning-GPS-AdditionalAssistanceDataRequest	Class-definitions		
UE_Positioning_GPS_Almanac	UE-Positioning-GPS-Almanac	Class-definitions		
UE_Positioning_GPS_AssistanceData	UE-Positioning-GPS-AssistanceData	Class-definitions		
UE_Positioning_GPS_DGPS_Corrections	UE-Positioning-GPS-DGPS-Corrections	Class-definitions		
UE_Positioning_GPS_IonosphericModel	UE-Positioning-GPS-IonosphericModel	Class-definitions		
UE_Positioning_GPS_MeasurementResults	UE-Positioning-GPS-MeasurementResults	Class-definitions		
UE_Positioning_GPS_NavigationModel	UE-Positioning-GPS-NavigationModel	Class-definitions		
UE_Positioning_GPS_NavModelAddDataReq	UE-Positioning-GPS-NavModelAddDataReq	Class-definitions		
UE_Positioning_GPS_ReferenceCellInfo	UE-Positioning-GPS-ReferenceCellInfo	Class-definitions		
UE_Positioning_GPS_ReferenceTime	UE-Positioning-GPS-ReferenceTime	Class-definitions		
UE_Positioning_GPS_UTC_Model	UE-Positioning-GPS-UTC-Model	Class-definitions		
UE_Positioning_IPDL_Parameters	UE-Positioning-IPDL-Parameters	Class-definitions		
UE_Positioning_IPDL_Parameters_r4	UE-Positioning-IPDL-Parameters-r4	Class-definitions		
UE_Positioning_IPDL_Parameters_TDD_r4_ext	UE-Positioning-IPDL-Parameters-TDD-r4-ext	Class-definitions		
UE_Positioning_MeasuredResults	UE-Positioning-MeasuredResults	Class-definitions		
UE_Positioning_MeasuredResults_v390ext	UE-Positioning-MeasuredResults-v390ext	Class-definitions		
UE_Positioning_Measurement	UE-Positioning-Measurement	Class-definitions		
UE_Positioning_Measurement_v390ext	UE-Positioning-Measurement-v390ext	Class-definitions		
UE_Positioning_Measurement_r4	UE-Positioning-Measurement-r4	Class-definitions		
UE_Positioning_MeasurementEventResults	UE-Positioning-MeasurementEventResults	Class-definitions		
UE_Positioning_MeasurementInterval	UE-Positioning-MeasurementInterval	Class-definitions		
UE_Positioning_MethodType	UE-Positioning-MethodType	Class-definitions		
UE_Positioning_OTD_OA_AssistanceData	UE-Positioning-OTD-OA-AssistanceData	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UE_Positioning_OTD OA_AssistanceData_r4	UE-Positioning-OTD OA-AssistanceData-r4	Class-definitions		
UE_Positioning_OTD OA_AssistanceData_r4ext	UE-Positioning-OTD OA-AssistanceData-r4ext	Class-definitions		
UE_Positioning_OTD OA_AssistanceData_UEB	UE-Positioning-OTD OA-AssistanceData-UEB	Class-definitions		
UE_Positioning_IPDL _Parameters_TDDList_r4_ext	UE-Positioning-IPDL -Parameters-TDDList-r4-ext	Class-definitions		
UE_Positioning_OTD OA_Measurement	UE-Positioning-OTD OA-Measurement	Class-definitions		
UE_Positioning_OTD OA_Measurement_v390ext	UE-Positioning-OTD OA-Measurement-v390ext	Class-definitions		
UE_Positioning_OTD OA_NeighbourCellInfo	UE-Positioning-OTD OA-NeighbourCellInfo	Class-definitions		
UE_Positioning_OTD OA_NeighbourCellInfo_r4	UE-Positioning-OTD OA-NeighbourCellInfo-r4	Class-definitions		
UE_Positioning_OTD OA_NeighbourCellInfo_UEB	UE-Positioning-OTD OA-NeighbourCellInfo-UEB	Class-definitions		
UE_Positioning_OTD OA_NeighbourCellList	UE-Positioning-OTD OA-NeighbourCellList	Class-definitions		
UE_Positioning_OTD OA_NeighbourCellList_r4	UE-Positioning-OTD OA-NeighbourCellList-r4	Class-definitions		
UE_Positioning_OTD OA_NeighbourCellList_UEB	UE-Positioning-OTD OA-NeighbourCellList-UEB	Class-definitions		
UE_Positioning_OTD OA_Quality	UE-Positioning-OTD OA-Quality	Class-definitions		
UE_Positioning_OTD OA_ReferenceCellInfo	UE-Positioning-OTD OA-ReferenceCellInfo	Class-definitions		
UE_Positioning_OTD OA_ReferenceCellInfo_r4	UE-Positioning-OTD OA-ReferenceCellInfo-r4	Class-definitions		
UE_Positioning_OTD OA_ReferenceCellInfo_UEB	UE-Positioning-OTD OA-ReferenceCellInfo-UEB	Class-definitions		
UE_Positioning_PositionEstimateInfo	UE-Positioning-PositionEstimateInfo	Class-definitions		
UE_Positioning_ReportingCriteria	UE-Positioning-ReportingCriteria	Class-definitions		
UE_Positioning_ReportingQuantity	UE-Positioning-ReportingQuantity	Class-definitions		
UE_Positioning_ReportingQuantity_v390ext	UE-Positioning-ReportingQuantity-v390ext	Class-definitions		
UE_Positioning_ReportingQuantity_r4	UE-Positioning-ReportingQuantity-r4	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
UE_Positioning_ResponseTime	UE-Positioning-ResponseTime	Class-definitions		
UTRA_CarrierRSSI	UTRA-CarrierRSSI	Class-definitions		
UTRAN_GPS_DriftRate	UTRAN-GPS-DriftRate	Class-definitions		
UTRAN_GPSReferenceTime	UTRAN-GPSReferenceTime	Class-definitions		
UTRAN_GPSReferenceTimeResult	UTRAN-GPSReferenceTimeResult	Class-definitions		
VarianceOfRLC_BufferPayload	VarianceOfRLC-BufferPayload	Class-definitions		
W	W	Class-definitions		
BCC	BCC	Class-definitions		
BCCH_ModificationInfo	BCCH-ModificationInfo	Class-definitions		
BCCH_ModificationTime	BCCH-ModificationTime	Class-definitions		
BSIC	BSIC	Class-definitions		
CBS_DRX_Level1Information	CBS-DRX-Level1Information	Class-definitions		
CDMA2000_Message	CDMA2000-Message	Class-definitions		
CDMA2000_MessageList	CDMA2000-MessageList	Class-definitions		
CDMA2000_UMTS_Frequency_List	CDMA2000-UMTS-Frequency-List	Class-definitions		
CellValueTag	CellValueTag	Class-definitions		
ExpirationTimeFactor	ExpirationTimeFactor	Class-definitions		
FDD_UMTS_Frequency_List	FDD-UMTS-Frequency-List	Class-definitions		
FrequencyInfoCDMA2000	FrequencyInfoCDMA2000	Class-definitions		
GERAN_SystemInfoBlock	GERAN-SystemInfoBlock	Class-definitions		
GERAN_SystemInformation	GERAN-SystemInformation	Class-definitions		
GSM_BA_Range	GSM-BA-Range	Class-definitions		
GSM_BA_Range_List	GSM-BA-Range-List	Class-definitions		
GSM_Classmark2	GSM-Classmark2	Class-definitions		
GSM_Classmark3	GSM-Classmark3	Class-definitions		
GSM_MessageList	GSM-MessageList	Class-definitions		
GsmSecurityCapability	GsmSecurityCapability	Class-definitions		
IdentificationOfReceivedMessage	IdentificationOfReceivedMessage	Class-definitions		
InterRAT_ChangeFailureCause	InterRAT-ChangeFailureCause	Class-definitions		
GERANlu_MessageList	GERANlu-MessageList	Class-definitions		
GERANlu_RadioAccessCapability	GERANlu-RadioAccessCapability	Class-definitions		
InterRAT_UE_RadioAccessCapability	InterRAT-UE-RadioAccessCapability	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
InterRAT_UE_RadioAccessCapabilityList	InterRAT-UE-RadioAccessCapabilityList	Class-definitions		
InterRAT_UE_RadioAccessCapability_v590ext	InterRAT-UE-RadioAccessCapability-v590ext	Class-definitions		
InterRAT_UE_SecurityCapability	InterRAT-UE-SecurityCapability	Class-definitions		
InterRAT_UE_SecurityCapList	InterRAT-UE-SecurityCapList	Class-definitions		
InterRAT_HO_FailureCause	InterRAT-HO-FailureCause	Class-definitions		
MasterInformationBlock	MasterInformationBlock	Class-definitions		
MIB_ValueTag	MIB-ValueTag	Class-definitions		
NCC	NCC	Class-definitions		
PLMN_ValueTag	PLMN-ValueTag	Class-definitions		
PredefinedConfigIdentityAndValueTag	PredefinedConfigIdentityAndValueTag	Class-definitions		
ProtocolErrorInformation	ProtocolErrorInformation	Class-definitions		
ReceivedMessageType	ReceivedMessageType	Class-definitions		
Rplmn_Information	Rplmn-Information	Class-definitions		
Rplmn_Information_r4	Rplmn-Information-r4	Class-definitions		
SchedulingInformation	SchedulingInformation	Class-definitions		
SchedulingInformationSIB	SchedulingInformationSIB	Class-definitions		
SchedulingInformationSIBSb	SchedulingInformationSIBSb	Class-definitions		
SegCount	SegCount	Class-definitions		
SegmentIndex	SegmentIndex	Class-definitions		
SFN_Prime	SFN-Prime	Class-definitions		
SIB_Data_fixed	SIB-Data-fixed	Class-definitions		
SIB_Data_variable	SIB-Data-variable	Class-definitions		
SIBOccurIdentity	SIBOccurIdentity	Class-definitions		
SIBOccurrenceIdentityAndValueTag	SIBOccurrenceIdentityAndValueTag	Class-definitions		
SIBOccurValueTag	SIBOccurValueTag	Class-definitions		
SIB_ReferenceList	SIB-ReferenceList	Class-definitions		
SIBSb_ReferenceList	SIBSb-ReferenceList	Class-definitions		
SIB_ReferenceListFACH	SIB-ReferenceListFACH	Class-definitions		
SIB_Type	SIB-Type	Class-definitions		
SIB_TypeAndTag	SIB-TypeAndTag	Class-definitions		
SIBSb_TypeAndTag	SIBSb-TypeAndTag	Class-definitions		
SibOFF	SibOFF	Class-definitions		
SibOFF_List	SibOFF-List	Class-definitions		
SysInfoType1	SysInfoType1	Class-definitions		
SysInfoType1_v3a0ext-IEs	SysInfoType1-v3a0ext-IEs	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
SysInfoType2	SysInfoType2	Class-definitions		
SysInfoType3	SysInfoType3	Class-definitions		
SysInfoType3_v4b0ext_IEs	SysInfoType3-v4b0ext-IEs	Class-definitions		
SysInfoType3_v590ext	SysInfoType3-v590ext	Class-definitions		
SysInfoType4	SysInfoType4	Class-definitions		
SysInfoType4_v4b0ext_IEs	SysInfoType4-v4b0ext-IEs	Class-definitions		
SysInfoType4_v590ext	SysInfoType4-v590ext	Class-definitions		
SysInfoType4_v5b0ext_IEs	SysInfoType4-v5b0ext-IEs	Class-definitions		
SysInfoType5	SysInfoType5	Class-definitions		
SysInfoType5_v4b0ext_IEs	SysInfoType5-v4b0ext-IEs	Class-definitions		
SysInfoType5_v590ext_IEs	SysInfoType5-v590ext-IEs	Class-definitions		
SysInfoType6	SysInfoType6	Class-definitions		
SysInfoType6_v4b0ext_IEs	SysInfoType6-v4b0ext-IEs	Class-definitions		
SysInfoType6_v590ext_IEs	SysInfoType6-v590ext-IEs	Class-definitions		
SysInfoType7	SysInfoType7	Class-definitions		
SysInfoType8	SysInfoType8	Class-definitions		
SysInfoType9	SysInfoType9	Class-definitions		
SysInfoType10	SysInfoType10	Class-definitions		
SysInfoType11	SysInfoType11	Class-definitions		
SysInfoType11_v4b0ext_IEs	SysInfoType11-v4b0ext-IEs	Class-definitions		
SysInfoType11_v590ext_IEs	SysInfoType11-v590ext-IEs	Class-definitions		
SysInfoType12	SysInfoType12	Class-definitions		
SysInfoType12_v4b0ext_IEs	SysInfoType12-v4b0ext-IEs	Class-definitions		
SysInfoType12_v590ext_IEs	SysInfoType12-v590ext-IEs	Class-definitions		
SysInfoType13	SysInfoType13	Class-definitions		
SysInfoType13_v3a0ext_IEs	SysInfoType13-v3a0ext-IEs	Class-definitions		
SysInfoType13_v4b0ext_IEs	SysInfoType13-v4b0ext-IEs	Class-definitions		
SysInfoType13_1	SysInfoType13-1	Class-definitions		
SysInfoType13_2	SysInfoType13-2	Class-definitions		
SysInfoType13_3	SysInfoType13-3	Class-definitions		
SysInfoType13_4	SysInfoType13-4	Class-definitions		
SysInfoType14	SysInfoType14	Class-definitions		
SysInfoType15	SysInfoType15	Class-definitions		
SysInfoType15_v4b0ext_IEs	SysInfoType15-v4b0ext-IEs	Class-definitions		
SysInfoType15_1	SysInfoType15-1	Class-definitions		

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ASN.1 Type Definitions By Reference				
Type Name	Type Reference	Module Identifier	Encoding Variation	Comments
SysInfoType15_2	SysInfoType15-2	Class-definitions		
SysInfoType15_3	SysInfoType15-3	Class-definitions		
SysInfoType16	SysInfoType16	Class-definitions		
SysInfoType17	SysInfoType17	Class-definitions		
SysInfoType17_v4b0ext_IEs	SysInfoType17-v4b0ext-IEs	Class-definitions		
SysInfoType17_v590ext_IEs	SysInfoType17-v590ext-IEs	Class-definitions		
SysInfoType18	SysInfoType18	Class-definitions		
SysInfoTypeSB1	SysInfoTypeSB1	Class-definitions		
SysInfoTypeSB2	SysInfoTypeSB2	Class-definitions		
TDD_UMTS_Frequency_List	TDD-UMTS-Frequency-List	Class-definitions		
ANSI_41_GlobalServiceRedirectInfo	ANSI-41-GlobalServiceRedirectInfo	Class-definitions		
ANSI_41_PrivateNeighbourListInfo	ANSI-41-PrivateNeighbourListInfo	Class-definitions		
ANSI_41_RAND_Information	ANSI-41-RAND-Information	Class-definitions		
ANSI_41_UserZoneID_Information	ANSI-41-UserZoneID-Information	Class-definitions		
ANSI_41_NAS_Parameter	ANSI-41-NAS-Parameter	Class-definitions		
Min_P_REV	Min-P-REV	Class-definitions		
NAS_SystemInformationANSI_41	NAS-SystemInformationANSI-41	Class-definitions		
NID	NID	Class-definitions		
P_REV	P-REV	Class-definitions		
SID	SID	Class-definitions		
Detailed Comments :				

Encoding Definitions			
Encoding Rule Name	Reference	Default	Comments
DirectEncoding			
GPRSPadding_Rule1	34.123-3 clause 6.10.2.9.1		To add 'padding bits' (null | 0 < spare padding >) to the end of GPRS RLC/MAC Control messages to pad to RLC block size
GSMSparePadding_Rule2	34.123-3 clause 6.10.2.9.2		To add 'spare padding' (<spare L>) to the end of specific GSM DL messages to pad to RLC a fixed message length of 23 octets
SACCHSysInfoSparePadding_Rule4	34.123-3 clause 6.10.2.9.5		To add 'spare padding' (<spare L>) to the end of System Information messages sent on SACCH to a fixed message length of 19 octets
OctetUnaligned	TS 25.322 clause 9.2.1.2 – TMD PDU		To be used for the encoding of RLC TMD PDU. An RLC PDU is a bit string. An RLC SDU is included into an RLC PDU from first bit onward. The TMD PDU is used to transfer user data when RLC is operating in transparent mode. No overhead is added to the SDU by RLC. The data length is not constrained to be a multiple of 8 bits. The TTCN writer shall take care of the length of the bitstring to be sent according to the allowed RLC size in the Transport Format.
PER_Unaligned	X.691		Packet encoding rules (X.691) unaligned and with adapted padding
Detailed Comments :			

Encoding Variations			
Encoding Rule Name : GSMSparePadding_Rule2			
Type List :			
Comments :			
Encoding Variation	Reference	Default	Comments
LowHigh_Rule3	34.123-3 clause 6.10.2.9.3		A specific field of 1 or more bits that occurs only in Rest Octets of certain GSM DL messages. This field shall be encoded according to its position in the 'spare padding' mask
Detailed Comments :			

Test Suite Operation Definition	
Operation Name	: o_CalculateTestPoint656(p_PhyCat:HSDSCH_physical_layer_category;p_ModScheme:ModulationScheme;p_NumOfPDU: INTEGER)
Result Type	: HSDPA_TestPoint
Comments	:
Description	
<p>TSO implements tables 14.1.3.4.1 for category 1 to 6, 14.1.3.4.2 for category 7 and 8, 14.1.3.4.3 for category 9, 14.1.3.4.4 for Category 10 and 14.1.3.4.5 for category 11 and 12.</p> <p>It accepts UE category(1 to 12), Modulation scheme(qpsk or qam16) and number of MAC-D PDU's(1 to 70) as input.</p> <p>If a test point is not defined for this combination of inputs, then returns</p> <p>flag = FALSE</p> <p>noOfChannelisationCodes =0</p> <p>tbSizeIndexOnHS_SCCH =0</p> <p>If a test point is defined for the combination of inputs, it returns,</p> <p>flag = TRUE</p> <p>noOfChannelisationCodes =value as per relevant table</p> <p>tbSizeIndexOnHS_SCCH =TFRI value as per relevant table</p> <p>example:</p> <p>if input is physical category =1,modScheme=qpsk,Num Of PDU's =5</p> <p>TSO returns</p> <p>flag = TRUE</p> <p>noOfChannelisationCodes =5</p> <p>tbSizeIndexOnHS_SCCH =43</p> <p>If input is category =1,modScheme=qpsk,Num Of PDU's =10</p> <p>TSO returns</p> <p>flag = FALSE</p> <p>noOfChannelisationCodes =0</p> <p>tbSizeIndexOnHS_SCCH =0</p>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name :	o_CalculateTestPoint336(p_PhyCat:HSDSCH_physical_layer_category;p_ModScheme:ModulationScheme;p_NumOfPDU: INTEGER)
Result Type :	HSDPA_TestPoint
Comments :	
Description	
<p>TSO implements tables 14.1.3.3.1 for category 1 to 6, 14.1.3.3.2 for category 7 and 8, 14.1.3.3.3 for category 9, 14.1.3.3.4 for Category 10 and 14.1.3.3.5 for category 11 and 12.</p> <p>It accepts UE category(1 to 12), Modulation scheme(qpsk or qam16) and number of MAC-D PDU's(1 to 70) as input.</p> <p>If a test point is not defined for this combination of input, then returns flag = FALSE noOfChannelisationCodes =0 tbSizeIndexOnHS_SCCH =0</p> <p>If a test point is defined for the combination of inputs, it returns, flag = TRUE noOfChannelisationCodes =value as per relevant table tbSizeIndexOnHS_SCCH =TFRI value as per relevant table</p> <p>example: if input is physical category =1,modScheme=qpsk,Num Of PDU's =10 TSO returns flag = TRUE noOfChannelisationCodes =5 tbSizeIndexOnHS_SCCH =45</p> <p>If input is category =1,modScheme=qpsk,Num Of PDU's =17 TSO returns flag = FALSE noOfChannelisationCodes =0 tbSizeIndexOnHS_SCCH =0</p>	
Detailed Comments :	

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

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

Test Suite Operation Definition	
Operation Name :	o_OctToInt(p_oct : OCTETSTRING)
Result Type :	INTEGER
Comments :	
Description	
<p>Transform an OCTETSTRING of length 1 to 4 into an unsigned 32 bits INTEGER value. If the input octet string is larger than 4, then only the first 4 octets shall be considered.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_IA5_IP_ToOct (p_String: IA5String; p_IP_V4: BOOLEAN)
Result Type :	OCTETSTRING
Comments :	
Description	
<p>o_IA5_IP_ToOct converts the string p_String from IA5String type to OCTETSTRING. p_String represents an IP address consisting of a number of fields of digits, separated by dots. Each one of the numbers of which the IP address consists is converted into one octet. The dots separating the numbers are ignored.</p> <p>p_IP_V4 is a BOOLEAN. When TRUE, an IP Version 4 address is to be converted, the maximum length of which is 4 octets, otherwise an IP Version 6 address is to be converted, the maximum length of which is 16 octets. See 3G TS 24008, clause 10.5.6.4</p> <p>For example:</p> <p>o_IA5_IP_ToOct ("200.1.1.80", TRUE) = 'C8010150'O o_IA5_IP_ToOct ("200.1.1.80.100", TRUE) should result in an appropriate error message o_IA5_IP_ToOct ("300.1.1.80", TRUE) should result in an appropriate error message</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_ConcatStrg (p_String1, p_String2 : IA5String)
Result Type :	IA5String
Comments :	
Description	
<p>o_ConcatString concatenates p_String1 and p_String2 and returns the resulting string.</p> <p>For example: o_ConcatString ("AT+CBST=0" , ",0") = "AT+CBST=0,0"</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_BitToOct(p_Str: BITSTRING)
Result Type :	OCTETSTRING
Comments :	
Description	
<p>This TSO is used to convert the given BITSTRING into an OCTETSTRING. If the bitstring length is not a multiple of 8, 1 to 7 padding bits are added at the MSB to fill the final octet.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_PagingGroupCalculate(p_IMSI : HEXSTRING;p_CCCH_Conf : B3; p_N : INTEGER)
Result Type :	INTEGER
Comments :	returns the calculated Paging Group
Description	
<p>PAGING_GROUP (0 .. N-1) = ((IMSI mod 1000) mod (BS_CC_CHANS x N)) mod N where N = number of paging blocks "available" on one CCCH = (number of paging blocks "available" in a 51-multiframe on one CCCH) x BS_PA_MFRMS. IMSI = International Mobile Subscriber Identity, as defined in GSM 03.03. mod = Modulo.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_PacketPagingGroupCalculate(IMSI : HEXSTRING; KC_Conf, M, N : INTEGER; SplitPGCycle : B8)
Result Type :	INTEGER
Comments :	returns the calculated Packet Paging Group
Description	
<p>PAGING_GROUP (0 ... M-1) = (((IMSI mod 1000) div (KC*N)) * N + (IMSI mod 1000) mod N + Max((m * M) div SPLIT_PG_CYCLE, m)) mod M</p> <p>for m = 0, ... , Min(M, SPLIT_PG_CYCLE) -1 where KC = number of (P)CCCH in the cell = BS_PCC_CHANS for PCCCH or BS_CC_CHANS for CCCH</p> <p>M = number of paging blocks "available" on one (P)CCCH = (12 - BS_PAG_BLK_RES - BS_PBCCH_BLK) * 64 for PCCCH (9 - BS_AG_BLK_RES) * 64 for CCCH not combined (3 - BS_AG_BLK_RES) * 64 for CCCH + SDCCH combined</p> <p>N = 1 for PCCCH (9 - BS_AG_BLK_RES) * BS_PA_MFRMS for CCCH not combined (3 - BS_AG_BLK_RES) * BS_PA_MFRMS for CCCH/SDCCH combined</p> <p>SPLIT_PG_CYCLE is an MS specific parameter negotiated at GPRS attach (see 3GPP TS 04.60)</p> <p>IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 03.03.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_IntToOct(p_N : INTEGER; p_L: INTEGER)
Result Type :	OCTETSTRING
Comments :	
Description	
<p>o_IntToOct converts the INTEGER p_N into OCTETSTRING with length = p_L.</p> <p>for example:</p> <p>o_IntToOct(14,1) = '0E'O; o_IntToOct(18,1) = '12'O; o_IntToOct(18,2) = '0012'O.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name : o_AuthRspChk(p_AuthRsp: AuthRsp; p_AuthRspExt: AuthRspExt; p_K:BITSTRING; p_RAND: BITSTRING; p_Ext: BOOLEAN)	
Result Type : BOOLEAN	
Comments :	
Description	
<p>Checks the input parameter p_AuthRsp and p_AuthRspExt, both received in an Authentication Response, according to the authentication algorithm defined in the following procedure.</p> <p>The extension, p_AuthRspExt, is optional. Its presence is indicated by p_Ext.</p> <p>Returns TRUE if the Authentication Response contained in parameters p_AuthRsp and eventually p_AuthRspExt is correct, FALSE otherwise.</p> <p>The value of tcv_AuthN indicates whether the AuthRspExt has been provided by the UE or not (n=31, or 31 < n < 128). See 3G TS 34.108 cl. 8.1.2.</p> <p>If not the parameter p_AuthRspExt is not to be used.</p> <p>Algorithm (without the knowledge of tcv_AuthN):</p> <pre>=====</pre> <p>if NOT p_Ext EvaluateAuthRsp else EvaluateAuthRspAndAuthRspExt</p> <p>EvaluateAuthRsp:</p> <pre>=====</pre> <p>resultbitstring = o_BitstringXOR(XRES, AuthRsp) if resultbitstring is all 0s then there is a match.</p> <p>EvaluateAuthRspAndAuthRspExt:</p> <pre>=====</pre> <p>XRESHigh = o_BitstringXtract(XRES, 32, 32, 0) /* XRES divides into 2 parts: the higher part of 32 bits related to AuthRsp and the lower part related to AuthRspExt */ /* SourceLength of 32 is only to ensure usage of the procedure */ resultbitstring = o_BitstringXOR(XRESHigh, AuthRsp) if resultbitstring is all 0s then there is a match for the first 32 bits:EvaluateAuthRspExt else Authentication failed.</p> <p>EvaluateAuthRspExt:</p> <pre>=====</pre> <p>/* As AuthRspExt may not be octet aligned the last octet indicated in AuthRspExt is not used for checking */</p> <p>if (AuthRspExt.iel = 1) then Authentication passed /* there was only 1 possibly incomplete octet which is not used */ else { AuthRspExthigh = o_BitstringXtract(AuthRspExt.authRsp, ((AuthRspExt.iel -1)* 8), (AuthRspExt.iel -1)* 8, 0) /* extract (AuthRspExt.iel -1)* 8 bits starting from bit 0 */ XRESLow = o_BitstringXtract(XRES, ((AuthRspExt.iel -1)* 8 + 32), (AuthRspExt.iel -1)* 8, 32) /* extract (AuthRspExt.iel -1)* 8 bits starting from bit 32 */ resultbitstring = o_BitstringXOR(XRESLow, AuthRspExthigh, (AuthRspExt.iel -1)* 8) if resultbitstring is all 0s then there is a match for the bits following the first 32 bits else Authentication failed }</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_BitstringConcat(p_Str1, p_Str2: BITSTRING; p_Len1, p_Len2: INTEGER)
Result Type :	BITSTRING
Comments :	
Description	
<p>Performs the concatenation of 2 bitstrings of possibly different lengths. The bit significance is from left to right, ie the MSB is at the lefthand side.</p> <p>Returns a resulting bitstring p_Str1 || p_Str2 of length p_Len1 + p_Len.</p> <p>Example: o_BitstringConcat('010101'B, '11'B) produces '01010111'B of length 6 + 2 = 8..</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_BitstringXOR(p_Str1, p_Str2: BITSTRING; p_Len: INTEGER)
Result Type :	BITSTRING
Comments :	
Description	
<p>Performs an XOR operation using 2 bitstrings of the same length (p_Len).</p> <p>Returns a resulting Bitstring of length p_Len.</p> <p>Example: o_BitstringXOR('0011'B, '0101'B, 4) produces '0110'B</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_BitstringXtract(p_Str: BITSTRING; p_SrcLen, p_TargetLen, p_Offset: INTEGER)
Result Type	: BITSTRING
Comments	:
Description	
<p>Performs the wrap around extract of a bitstring. The length of the string from which extraction is to be made is specified in p_SrcLen. The length of the bitstring to be extracted is indicated as p_TargetLen, the offset in the original string is indicated in p_Offset.</p> <p>The bit position 0 is at the left.</p> <p>Returns a resulting bitstring of length p_TargetLen.</p> <p>Examples:</p> <p>o_BitstringXtract('101010'B, 6, 2, 1) produces '01'B.</p> <p>o_BitstringXtract('101010'B, 6, 4, 3) produces '0101'B, wrapping around.</p> <p>o_BitstringXtract('111000'B, 6, 4, 5) produces '0111'B, wrapping around.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_ConvertIMSI(p_Imsi : HEXSTRING)
Result Type	: IMSI_GSM_MAP
Comments	: The input parameter 'imsi' is a BCD string (subset of HEXSTRING), the result is of type IMSI_GSM_MAP.
Description	
The input parameter p_Imsi is a BCD string (subset of HEXSTRING), the result is of type IMSI_GSM_MAP.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_ConvertPTMSI(p_PTMSI : OCTETSTRING)
Result Type	: P_TMSI_GSM_MAP
Comments	: The input parameter 'PTMSI' is a OCTETSTRING, the result is of type TMSI_GSM_MAP.
Description	
The input parameter 'PTMSI' is a OCTETSTRING, the result is of type P_TMSI_GSM_MAP.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_ConvertTMSI(p_Tmsi : OCTETSTRING)
Result Type	: TMSI_GSM_MAP
Comments	: The input parameter 'tmsi' is a OCTETSTRING, the result is of type TMSI_GSM_MAP.
Description	
The input parameter p_Tmsi is a OCTETSTRING, the result is of type TMSI_GSM_MAP.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_ConvtPLMN(p_MCC, p_MNC : HEXSTRING)
Result Type	: OCTETSTRING
Comments	:
Description	
<p>the functions of o_ConvtPLMN are as following:</p> <ol style="list-style-type: none"> 1. The least significant HEX of p_MNC is removed from p_MNC and inserted into p_MCC in the position left to the third HEX to form a new p_MCC of 4 HEXs, then swap the first HEX (left most, most significant Hex) with the second HEX of the new p_MCC. 2. Swap the first Hex with the second HEX of the remaining part of p_MNC and append it to the new p_MCC formed in Step1 above. <p>For example: o_ConvtPLMN('123'H, '456'H) = '216354'O o_ConvtPLMN ('234'H, '01F'H) = '32F410'O</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name : o_GetN_OctetsFromPRBS(p_Start, p_N: INTEGER) Result Type : OCTETSTRING Comments :	
Description	
<p>This operation returns N octets from a repeated pseudo random bit sequence, starting with octet position p_Start. The PRBS is the 2047 bit pseudo random test pattern defined in ITU-T Recommendation O.153 for measurements at 64 kbit/s and N x 64 kbit/s</p> <p>o_GetN_OctetsFromPRBS(p_Start, p_N) generates an OCTETSTRING containing p_N octets starting from octet number p_Start in the PRBS.</p> <p>Requirements p_Start >= 0 p_N >= 1</p> <p>Definition Define the 2047 bit PRBS sequence b(i) as an m-sequence produced by using the following primitive (over GF(2)) generator polynomial of degree 11:</p> $X^{11} + X^9 + 1$ <p>This sequence is defined recursively as:</p> $b(i) = 1, i = 0, 1, \dots, 10$ $b(i) = b(i - 2) + b(i - 11) \text{ modulo } 2, i = 11, 16, \dots, 2046$ <p>The OCTETSTRING, o(j) generated by the present TSO is produced by extracting p_N octets from the repeated sequence b(i) as follows:</p> $o(j,k) = b(((n_Start + j) * 8 + k) \text{ modulo } 2047)$ <p>where:</p> $j = 0, 1, \dots, p_N - 1$ $k = 0, 1, \dots, 7$ <p>o(j,k) is the kth bit of the jth octet in o(j), o(j,0) is the MSB of the jth octet in o(j), o(j,7) is the LSB of the jth octet in o(j),</p> <p>Example results: o_GetN_OctetsFromPRBS(0, 25) and o_GetN_OctetsFromPRBS(2047, 25) both return:</p> <p>'FFE665A5C5CA3452085408ABEECE4B0B813FD337873F2CD1E2'O</p> <p>o_GetN_OctetsFromPRBS(255, 25) and o_GetN_OctetsFromPRBS(255 + 2047, 25) both return</p> <p>'01FFCCCB4B8B9468A410A81157DD9C9617027FA66F0E7E59A3'O</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_GetPI (p_Imsi : HEXSTRING; p_Np: INTEGER)
Result Type	: BITSTRING
Comments	: The operation is used to calculate the PI (Page Indicator) from the given input parameters.
Description	
<p>The PI is calculated as following: $PI = drx_index \bmod np$</p> <p>The drx_index is calculated as described hereafter: $drx_index = (p_Imsi / 8192)$</p> <p>This calculation is defined in TS 25.304 clause 8.3.</p> <p>NOTE: the IMSI is passed as HEXSTRING, the relevant conversion shall be done.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_HexToDigitsMCC(p_BCDdigits : HEXSTRING)
Result Type	: MCC
Comments	:
Description	
<p>The input parameter p_BCDdigits shall be a BCD string (subset of HEXSTRING), the result is a SEQUENCE (SIZE(3)) OF digit (MCC).</p> <p>NOTE: The length of p_BCDdigits shall be 3. User shall take the responsibility of fulfilling this requirement.</p> <p>for example:</p> <p>$o_HexToDigitsMCC('111'H) = \{1, 1, 1\}$ $o_HexToDigitsMCC('123'H) = \{1, 2, 3\}$.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_HexToDigitsMNC(p_BCDdigits : HEXSTRING)
Result Type :	MNC
Comments :	
Description	
<p>The length of the input parameter p_BCDdigits shall be 3 HEX DIGITS, the first two shall be BCDdigit (subset of HEXSTRING) the result is a SEQUENCE (SIZE(2..3)) OF Digit (MNC).</p> <p>The function of this operation is:</p> <ol style="list-style-type: none"> 1. the least significant HEX is removed if it is 'F' and the operation returns SEQUENCE (SIZE(2)) OF Digit. 2. the operation returns SEQUENCE (SIZE(3)) OF Digit if all 3 HEX digits in p_BCDdigits are BCD Digit. <p>for example:</p> <p>o_HexToDigitsMNC('123'H) = {1, 2, 3} o_HexToDigitsMNC('13F'H) = {1, 3}.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_OctetstringConcat(p_Str1, p_Str2: OCTETSTRING)
Result Type :	OCTETSTRING
Comments :	
Description	
<p>o_OctetstringConcat Performs the concatenation of 2 octetstrings of possibly different lengths. The octet significance is from left to right, i.e. the MSB is at the lefthand side.</p> <p>Returns a resulting octetstring p_Str1 || p_Str2 .</p> <p>Example: o_OctetstringConcat('135'O, '9A38'O) = '1359A38'O.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	o_OctToBit (p_OctetStr: OCTETSTRING)
Result Type :	BITSTRING
Comments :	Converts an OCTETSTRING into a BITSTRING
Description	
<p>The size of the resulting BITSTRING is 8 times the size of the input OCTETSTRING</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_SIB_PER_Encoding(p_SIB : SIB)
Result Type	: BITSTRING
Comments	: generate the unaligned PER codes without "Encoder added (0–7) bits padding" from the input system information block
Description	
<p>The function of the o_SIB_PER_Encoding is as the follows:</p> <p>it returns the unaligned PER encoding (BIT STRING) of the input system information block p_SIB (without "Encoder added (1–7) bits padding"). The bits corresponding to the encoding of the CHOICE of the SIB type shall be removed.</p> <p>Example: for the following SIBType1 value:</p> <pre> SysInfoType1 ::= { cn_CommonGSM_MAP_NAS_SysInfo '0080'O, cn_DomainSysInfoList {{cn_DomainIdentity ps_domain, cn_Type gsm_MAP: '0000'O, cn_DRX_CycleLengthCoeff p_CellInfo.dRX_CycleLength }, {cn_DomainIdentity cs_domain, cn_Type gsm_MAP: o_OctetstringConcat(p_T3212, cn_DRX_CycleLengthCoeff p_CellInfo.dRX_CycleLength } }, o_IntToOct(p_ATTFlag, 1)), ue_ConnTimersAndConstants { t_301 ms2000, n_301 2, t_302 ms4000, n_302 3, t_304 ms1000, n_304 3, t_305 m60, t_307 s50, t_308 ms320, t_309 8, t_310 ms320, n_310 5, t_311 ms500, t_312 5, n_312 s200, t_313 10, n_313 s20, t_314 s20, t_315 s30, n_315 s200, t_316 s50, t_317 s1800 }, ue_IdleTimersAndConstants { t_300 ms400, n_300 7, t_312 10, n_312 s200 }, nonCriticalExtensions } </pre> <p>The operation returns BITSTRING:"1110010000000010000000011000100000000000000010000100000000000000011111111111111111110100101100011011011100110111111110100101011101010011101001110111100101111010011"</p>	

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Test Suite Operation Definition
Detailed Comments : 3GPP TS 25.331 clause 12.1

Test Suite Operation Definition
Operation Name : o_SIB_Segmentation(p_SIBBitString : BITSTRING) Result Type : SegmentsOfSysInfoBlock Comments : The returned result is a structured type.
Description
<p>The function of the o_SIB_Segmentation is as following:</p> <ol style="list-style-type: none">1. If the p_SIBBitString is less than or equal to 226 bits, the bit string is fit into one segment. If the bit string is less than 226 bits but more than 214 bits, the segment shall be padded to 226 bits long with padding bits set to '0'B.2. If the input operand p_SIBBitString is longer than 226 bits it is segmented from left to right into segments, each segment except the last one is 222 bits . The last segment may be 222 bits or shorter. If the length of last segment is greater than 214 bits pad it to 222 bits with padding bits set to '0'B.3. The number of segments is assigned to segCount field of the result.4. The first segment is assigned to seg1 field of the result, the second segment is assigned to the seg2 field of the result, the third segment is assigned to the seg3 field of the result, and so on till the last segment.
Detailed Comments :

Test Suite Operation Definition	
Operation Name	: o_SUFI_Handler(p_SUFI_Params: SUFI_Params; p_SUFI_String: HEXSTRING)
Result Type	: ResAndSUFIs
Comments	: "See TS-34.123-3 section 6.5.2.1 for the handling of SUFIs"
Description	
<p>Parameters</p> <p>p_SUFI_Params This parameter contains the list of checking criteria to be applied by the TSO</p> <p>p_SUFI_String This parameter contains the received string of SUFIs to be checked.</p> <p>Description</p> <p>This TSO is used to check that the received string of SUFIs contained in p_SUFI_String. Checking criteria to be applied are contained in p_SUFI_Params.</p> <p>Output</p> <p>– the BOOLEAN result of the TSO: TRUE if all checking and the filling of the SuperFields structure were successful; FALSE otherwise; in this case the TSO shall produce sufficient output to allow problem analysis –The filled-in SuperFields structure</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: o_GetMostSignificantBits_WrapAround(bstring : BITSTRING; lg :INTEGER)
Result Type	: BITSTRING
Comments	:
Description	
<p>o_GetMostSignificantBits operation returns the 'lg' most significant bits of the original 'bstring'.</p> <p>for example:</p> <p>o_GetMostSignificantBits('110011000101010'B, 3) = '110'B, o_GetMostSignificantBits('110011000101010'B, 6) = '110011'B. If lg is greater than the length of bstring, then a bitsring of size greater than lg is created by concatenating bstring to itself (any number of times till it is size is greater than lg), and then 'lg' most significant bits of concatenated bstring are returned. example o_GetMostSignificantBits('1100'B, 9) = '110011001'B.</p>	
Detailed Comments :	

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
pc_RAB_A_18f_1_1	BOOLEAN	PICS, Table A.18f.1/1	RAB for TC_14_6_1
pc_RAB_A_18f_1_2	BOOLEAN	PICS, Table A.18f.1/2	RAB for TC_14_6_2
pc_FDD	BOOLEAN	PICS, Table A.1/1	FDD(DS)
pc_RAB_A_18c_26	BOOLEAN	PICS, Table A.18c/26	RAB for TC_14_2_26
pc_AT_SupportToInit_PS_Call	BOOLEAN	PICS, Table A	This PIXIT when set to TRUE, AT command set (CGACT, CGEQREQ, CGDCONT, CGEQMIN) will be used to initiate PS call and strict check of desired QoS parameters is done. IF it is set to FALSE, only CGACT command to act PDP context will be used to initiate the call, and checking of QoS Parameters sent by UE in PDP Context Req will not be performed. Default value: TRUE
px_PDP_IP_AddrInfoDCH	IA5String	PIXIT Table B.2	A string parameter that identifies the MT in the address space applicable to the IP PDP for DCH. Default value: "200.1.1.80"
px_PDP_IP_AddrInfoFACH	IA5String	PIXIT Table B.2	A string parameter that identifies the MT in the address space applicable to the IP PDP for FACH. Default value: "200.1.1.90"
px_GSM_BandUnderTest	INTEGER		indicates which band is under test: 1 -> GSM450; 2 -> GSM480; 3 -> GSM700; 4 -> GSM850; 5 -> GSM-P-900; 6 -> GSM-E-900; 7 -> DCS1800; 8 -> PCS1900. 9 -> 450 & 900 MultiBand test 10 -> 450 & 1800 MultiBand test 11 -> 480 & 900 MultiBand test 12 -> 480 & 1800 MultiBand test 13 -> 900 & 1800 MultiBand test other values are not defined currently.
px_GSM_CipherAlg	B3	PIXIT B.11	GSM Cipher algorithm.
px_GPRS_CipherAlg	B3	PIXIT B.11	Default value: (A5/1) '000'B GPRS Cipher algorithm. Default value: (GEA/1) '001'B

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
px_GSM_CipheringOnOff	B1	PIXIT B.8	GSM Ciphering to be started or not Default value: '1'B i.e Ciphering to be started
px_CipherKey	B64	PIXIT B.8	Cipher Key (64 bits). Default value: '010111100100101010110 0110101100010010001001 101110101110100101010' B
px_MS_TXPWR_MAX_CCH	B5	PIXIT B.8	MS_TXPWR_MAX_CCH. Default value: '01010'B
px_RXLEV_ACCESS_MIN	B6	PIXIT B.8	minimum received signal level at MS. Default value: '000000'B
px_SplitOnCCCH	B1	PIXIT B.8	Split pg cycle on CCCH supported indication (1 bit) Default value: '0'B not supported
px_TSC	B3	PIXIT B.8	?? shall be a PICS question Training sequence code for traffic channels. Default value: '011'B
px_PowerLevel	B5		power level value for L1 header
px_TimingAdvance	B7		Timing advance value for L1 header. Default value: '0000000'B
pc_GPRS	BOOLEAN	51.010 – 2 Table A.2/41	
pc_G_operation_mode_C	BOOLEAN	51.010 A.2/49	GERAN UE Operation Mode C
pc_AutomaticAttachSwitchON	BOOLEAN	PICS, Table A	Paramter is TRUE if UE supports automatic triggering of GMM Attach procedure when switched on
pc_Background	BOOLEAN	PICS, Table A.6/4	Background QoS/traffic class supported
pc_CS	BOOLEAN	PICS, Table A.3/1	Circuit Switched
pc_Interactive	BOOLEAN	PICS, Table A.6/3	Interactive QoS/traffic class supported
pc_MS_ClsmkA5_1	B1	PICS Table A.20/44	default Algorithm A5/1 supported. Default value: '0'B(i.e. A5/1 is supported)
pc_MS_ClsmkA5_2	B1	PICS Table A.20/46	default Algorithm A5/2 supported. Default value: '0'B (encryption algorithm A5/2 not available)

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
pc_MS_ClsmkA5_3	B1	PICS Table A.20/47	default Algorithm A5/3 supported. Default value: '0'B(encryption algorithm A5/3 not available)
pc_MS_ClsmkA5_4	B1	PICS Table A.20/48	default Algorithm A5/3 supported. Default value: '0'B(encryption algorithm A5/4 not available)
pc_MS_ClsmkA5_5	B1	PICS Table A.20/49	default Algorithm A5/3 supported. Default value: '0'B(encryption algorithm A5/5 not available)
pc_MS_ClsmkA5_6	B1	PICS Table A.20/50	default Algorithm A5/3 supported. Default value: '0'B(encryption algorithm A5/6 not available)
pc_MS_ClsmkA5_7	B1	PICS Table A.20/51	default Algorithm A5/7 supported. Default value: '0'B(encryption algorithm A5/7 not available)
pc_PS	BOOLEAN	PICS, Table A.3/2	Packet Switched
pc_SwitchOnOff	BOOLEAN	PICS, Table A.20/35	switch on/off supported
pc_UEA1_Supp	BOOLEAN	PICS, Table A.20/27	Support of UMTS encryption algorithm UEA1
pc_UMTS_GSM	BOOLEAN	PICS, Table A.1/4	To check if the UE supports both UMTS as well as GSM. If the variable is set as TRUE, means that both UMTS and GSM is supported. If the variable is set as FALSE, means that UE supports only UMTS
pc_USIM_Rmv	BOOLEAN	PICS, Table A.20/36	USIM removable without power down supported
px_AuthAMF	BITSTRING	PIXIT Table B.1	Authentication Management Field (16 bits). The value shall be different from '1111 1111 1111'B (AMFresynch). Default value: no default value can be proposed
px_AuthK	BITSTRING	PIXIT Table B.1	Authentication Key (128 bits). Default value: '0000000000000000100000 0100000001100000100000 0010100000110000001110 0001000000010010000101 0000010110000110000001 1010000111000001111'B

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
px_AuthN	INTEGER	PIXIT Table B.1	value of n to initialize tcv_AuthN (length of extended response) min 31, max 127 (TS 34.108 cl. 8.1.2). Default value: 127
px_AuthRAND	BITSTRING	PIXIT Table B.1	Random Challenge (128 bits). Default value: '010101..01'B The value shall not be repeatable with 3 bits i.e. something like '001001001001...001'B not allowed.
px_CipherAlg	B3	PIXIT Table B.1	Cipher algorithm. Default value: (A5/1) '000'B
px_CipheringOnOff	BOOLEAN	PIXIT Table B.1	Security mode – TRUE if ciphering is applicable. Default value: TRUE
px_FDD_OperationBand	INTEGER	PIXIT Table B.1	The operation band under test, as defined in 34.108 clause 5.1.1. Value 1 means Band 1, 2 means Band 2, 3 means Band 3, 6 means Band 6. Rest of the values are not defined. This pixit shall be set in synchronisation with the values that are being set to 6 other Pixits viz: px_UARFCN_D_High,px_U ARFCN_U_High, px_UARFCN_D_Mid,px_U ARFCN_L_Mid, px_UARFCN_D_Low, px_UARFCN_U_Low
px_FRESH	Fresh	PIXIT Table B.1	FRESH. Default value: no default value can be proposed
px_IMSI_Def	HEXSTRING	PIXIT Table B.1	default IMSI. Default value: '001010123456063'H
px_MS_ClsmkESIND	B1	PICS Table B.1	default Early Sending Indication. Default value: '0'B("Controlled Early Classmark Sending" option is not implemented in the MS")
px_MS_ClsmkRF_PwrCap	B3	PIXIT Table B.1	default RF Power Capability. Default value: '000'B
px_MS_ClsmkRevLvl	B2	PIXIT Table B.1	default Revision Level. Default value: '10'B
px_PTMSI_Def	OCTETSTRING	PIXIT Table B.1	default PTMSI . Default value: '12345678'O

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
px_PTMSI_SigDef	OCTETSTRING	PIXIT Table B.1	default PTMSI signature (3 octets, 3GPP 24.008 / 10.5.5.8). Default value: 'AB1234'O
px_PriScrmCode	PrimaryScramblingCode	PIXIT Table B.1	Primary scrambling code. Default value: 100
px_RAT	RatType	PIXIT Table B.1	This parameter is used to specify which radio access technology is being used for the current test execution. Valid values: fdd and tdd. Default value: fdd
px_RRC_PS_ServTested	RRC_ServTested	PIXIT Table B.1	PS service to be tested for RRC test cases. Default value: Speech
px_SRNC_Id	SRNC_Identity	PIXIT Table B.1	SRNC Id. Default value: '0000000000001'B
px_SRNTI	S_RNTI	PIXIT Table B.1	S RNTI. Default value: '0000000000000000001'B
px_TCellA	Tcell	PIXIT Table B.1	TCell value for cell A. Default value: 0
px_TCellB	Tcell	PIXIT Table B.1	TCell value for cell B. Default value: 512
px_TCellC	Tcell	PIXIT Table B.1	TCell value for cell C. Default value: 1536
px_TCellD	Tcell	PIXIT Table B.1	TCell value for cell D. Default value: 321
px_TCellE	Tcell	PIXIT Table B.1	TCell value for cell E. Default value: 833
px_TCellF	Tcell	PIXIT Table B.1	TCell value for cell F. Default value: 6577
px_TCellG	Tcell	PIXIT Table B.1	TCell value for cell G. Default value: 7253
px_TCellH	Tcell	PIXIT Table B.1	TCell value for cell H. Default value: 4351
px_TMSI_Def	OCTETSTRING	PIXIT Table B.1	default TMSI. Default value: '12345678'O
px_UARFCN_D_High	INTEGER	PIXIT Table B.1	High Range downlink UARFCN value. Default value: 10837
px_UARFCN_D_Low	INTEGER	PIXIT Table B.1	Low Range downlink UARFCN value Default value: 10563
px_UARFCN_D_Mid	INTEGER	PIXIT Table B.1	Mid Range downlink UARFCN value Default value: 10700
px_UARFCN_U_High	INTEGER	PIXIT Table B.1	High Range uplink UARFCN value. This value shall be set based on the operation band supported. Default value: 9887

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
px_UARFCN_U_Low	INTEGER	PIXIT Table B.1	Low Range uplink UARFCN value. This value shall be set based on the operation band supported. Default value: 9613
px_UARFCN_U_Mid	INTEGER	PIXIT Table B.1	Mid Range uplink UARFCN value. This value shall be set based on the operation band supported. Default value: 9750
px_UE_OpModeDef	UE_OperationMode	PIXIT Table B.1	Default UE operation mode (either opModeA or opModeC). (For most UEs this corresponds class-A or class-C, and can not be changed by the user). Default value: opModeA
px_UL_ScramblingCode	UL_ScramblingCode	PIXIT Table B.1	UL scrambling code value to be used by UE. Default value : 0
px_UTRAN_GERAN	UTRAN_GERAN	PIXIT Table B.1	This parameter is used to specify for which region the system information blocks are broadcast in the test execution. Valid values: "UTRAN only" and "UTRAN and GERAN". Default value: "UTRAN and GERAN"
pc_HSDPA	BOOLEAN	PICS, Table A.18a/14	Support of HS-PDSCH
pc_CapabilityWithSimultaneousHS_DSCHConfig	DL_CapabilityWithSimultaneousHS_DSCHConfig		
pc_GERANlu_RadioAccessCapability	BITSTRING		
pc_HSDSCH_UE_Category	HSDSCH_physical_layer_category	PICS, Table A.18a.1	Default value: 5
pc_MaxHcContextSpace_r5_ext	MaxHcContextSpace_r5_ext	PICS, Table A.18a.1/6	
pc_SimultaneousSCCPCH_DPCH_HSDSCH_Reception	BOOLEAN		
pc_SupportForRfc3095ContextRelocation	BOOLEAN		
pc_SupportOfDedicatedPilotsForChannelEstimationOfHSDSCH	BOOLEAN		
pc_SupportOfUTRAN_ToGERAN_NACC	BOOLEAN		
pc_TotalRLC_AM_BufferSize_r5_ext	TotalRLC_AM_BufferSize_r5_ext		
Detailed Comments :			

Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
RRC_FDD_IR_GPRS_HSDPA	pc_FDD AND pc_UMTS_GSM AND pc_GPRS AND pc_RAB_A_18c_26 AND pc_HSDPA	C381
RB_Intr_Backgr_C373	RB_Intr_Backgr_C374 OR (pc_FDD AND pc_HSDPA AND pc_RAB_A_18f_1_1)	(A.1/1 AND A.18a/14 AND A.18f.1/2
RB_Intr_Backgr_C374	pc_FDD AND pc_HSDPA AND pc_RAB_A_18f_1_2	(A.1/1 AND A.18a/14 AND A.18f.1/2
AllHSDPA_UE	pc_HSDPA	Applicable for All UE's supporting HSDPA
RRC_FDD_HSDPA	pc_FDD AND pc_HSDPA	c371
Detailed Comments :		

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_AttLevToPower65_dBm	INTEGER	tsc_PowerpCPICH + 65	Attenuation level used for setting low power level. High power level used is -65 dBm for CPICH RSCP
tsc_Sfc256_C1	SF512_AndCodeNumber	sf256: 1	Value for SUFI type field within a SUFI in a STATUS PDU. Ref 9.2.2.11
tsc_CRNTI_Id4	C_RNTI	'0101010101010101'B	
tsc_SUFI_Ack	SUFI_Type	'0010'B	
tsc_PAD_20Bit	BITSTRING	'00000000000000000000'B	Padding of 20 bits
tsc_PAD_8Bit	BITSTRING	'00000000'B	Padding of 8 bits
tsc_E_Data	ExtBit	'0'B	Value for ExtBit in AMD and UMD PDU when the next field is data. Ref 3G TS 25.322 clause 9.2.2.5
tsc_E_LI_AndE_Bit	ExtBit	'1'B	Value for ExtBit in AMD and UMD PDU when the next field is Length Indicator and E bit. Ref 3G TS 25.322 clause 9.2.2.5
tsc_AM_SN_Size	INTEGER	12	The number of bits used to represent an UM sequence number. Ref 3G TS 25.322 clause 9.2.2.3
tsc_UM_SN_Size	INTEGER	7	The number of bits used to represent an UM sequence number. Ref 3G TS 25.322 clause 9.2.2.3
tsc_RB_TestData_112	BITSTRING	o_GetLeastSignificantBits(o_OctToBit(o_GetN_OctetsFromPRBS(0, 14)),112)	Test Data 112 bits
tsc_RB_TestData_312_AM	OCTETSTRING	o_GetN_OctetsFromPRBS(0, 39)	Test Data 312 bits
tsc_RB_TestData_304	BITSTRING	o_GetLeastSignificantBits(o_OctToBit(o_GetN_OctetsFromPRBS(0, 38)),304)	Test Data 304 bits
tsc_Payload_1974	INTEGER	1974	Corresponding to TFRC kt =106
tsc_Payload_365	INTEGER	365	Corresponding to TFRC kt =20
tsc_LI_SDU_38B	INTEGER	38	if the "Length Indicators" indicating that a RLC SDU is of 38 Bytes
tsc_LI_SDU_14B	INTEGER	14	if the "Length Indicators" indicating that a RLC SDU is of 14 Bytes
tsc_LI7_SDU_39B	INTEGER	39	if the "Length Indicators" indicating that a RLC SDU is of 39 Bytes

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_LI7_EndOfSDU	INTEGER	124	if the "Length Indicators" indicating that a RLC SDU ended exactly in the end or one octet short (only when 15-bit "Length Indicators" is used) of the previous RLC PDU are not present: – if 7-bit "Length Indicator" is used: – the "Length Indicator" with value "111 1100" shall be used;
tsc_LI7_Padding	INTEGER	127	Value for 7 bit length indicator when the rest of the RLC PDU contains padding ('1111111'B). An INTEGER so that it can be passed to LI constraints. Ref 3G TS 25.322 clause 9.2.2.8
tsc_NumOfPDU_1	B7	'0000001'B	used to say number of PDUS is 1
tsc_SID_3	B3	'011'B	used to index SID 3
tsc_SID_2	B3	'010'B	used to index SID 2
tsc_SID_1	B3	'001'B	used to index SID 1
tsc_SID_0	B3	'000'B	used to index SID 0
tsc_QID_0	B3	'000'B	used to index Queue ID 0
tsc_TSN_0	B6	'000000'B	used to index TSN 0
tsc_TSN_7	B6	'000111'B	used to index TSN 7
tsc_TSN_1	B6	'000001'B	used to index TSN 1
tsc_TSN_2	B6	'000010'B	used to index TSN 2
tsc_TSN_3	B6	'000011'B	used to index TSN 3
tsc_TSN_4	B6	'000100'B	used to index TSN 4
tsc_TSN_5	B6	'000101'B	used to index TSN 5
tsc_TSN_38	B6	'100110'B	used to index TSN 38
tsc_Def_Mac_D_FlowId	MAC_d_FlowIdentity	0	used to index MAC–D Flow ID 0
tsc_TSN_6	B6	'000110'B	used to index TSN 6
tsc_AttLevToPower60_dBm	INTEGER	tsc_PowerpCPICH + 60	Attenuation level to achieve a downlink power level of –60 dBm for CPICH RSCP
tsc_DL_DPCH1_SFP_SRB_3_4k	SF512_AndPilot	sfd256:pb4	Spreading factor and pilot bits for tsc_DL_DPCH1 for an SRB connection with a RAB established
tsc_DL_DPCH_ScrC_2	SecondaryScramblingCode	2	secondary scrambling code for DL DPCH
tsc_DL_DPCH_ScrC_4	SecondaryScramblingCode	4	secondary scrambling code for DL DPCH
tsc_Sfc256	SF512_AndCodeNumber	sf256: 255	

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_AccessPtNameDCH	IA5String	"ABCDEF"	The logical name for the GGSN or the external packet world for the DCH PDP context. Default value: "ABCDEF"
tsc_AttenuationCellOFF	INTEGER	123	Value of attenuator to be used when setting a Cell OFF (3GPP 34.108 / Table 6.1.3)
tsc_AttenuationNonSuitableNeighbourCell	INTEGER	30	Value of attenuator to be used when setting a Non-Suitable Neighbour Cell (3GPP 34.108 / Table 6.1.3) relative to Serving Cell.
tsc_DL_DCH2	INTEGER	7	identity for transport channel DCH2 (downlink), in AMR speech this transport channel is used for RAB subflow#2
tsc_DL_DCH3	INTEGER	8	identity for transport channel DCH4 (downlink), in AMR speech this transport channel is used for RAB subflow#3
tsc_DL_DPCH1_ChC_Speech	SF512_AndCodeNumber	sf128:0	Channelization code for tsc_DL_DPCH1 for a speech configuration
tsc_DL_DPCH1_ChC_Streaming	SF512_AndCodeNumber	sf32:0	Channelization code for tsc_DL_DPCH1 for a Streaming 57.6 kbps configuration
tsc_DL_DPCH1_SFP_64k_CS	SF512_AndPilot	sfd32 : NULL	Spreading factor and pilot bits for tsc_DL_DPCH1 for a 64 kbps CS configuration
tsc_DL_DPCH1_SFP_64k_PS	SF512_AndPilot	sfd32 : NULL	Spreading factor and pilot bits for tsc_DL_DPCH1 for a 64 kbps PS configuration
tsc_DL_DPCH1_SFP_Speech	SF512_AndPilot	sfd128 : pb4	Spreading factor and pilot bits for tsc_DL_DPCH1 for a speech configuration
tsc_DL_DPCH1_SFP_Streaming	SF512_AndPilot	sfd32 : NULL	Spreading factor and pilot bits for tsc_DL_DPCH1 for a Streaming 57.6 kbps configuration
tsc_DL_DPCH_ScrC_3	SecondaryScramblingCode	3	secondary scrambling code for DL DPCH
tsc_DL_DPCH_ScrC_5	SecondaryScramblingCode	5	secondary scrambling code for DL DPCH
tsc_DL_DTCH2	INTEGER	8	Logical channel identity for DTCH2 (downlink)
tsc_DL_DTCH3	INTEGER	9	Logical channel identity for DTCH3 (downlink)
tsc_PDP_TypeNo	PDP_TypeNo	'21'O	Indicates IP v4 or IP v6. Default is IPv4 (0 0 1 0 0 0 0 1). Default value: '21'O

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_PDP_TypeOrg	B4	'0001'B	Default value can be ETSI provided. A string parameter which specifies the type of packet data protocol X.25 IP OSPIH PPP. Default value: '0000'B
tsc_Sf32	SpreadingFactor	sf32	identity for transport channel DCH3 (uplink), in AMR speech this transport channel is used for RAB subflow#3
tsc_UL_DCH3	INTEGER	3	
tsc_UL_DPDCH_SF_64k_CS	SpreadingFactor	sf16	Channelization code for UL DPDCH for a 64 kbps CS configuration
tsc_UL_DPDCH_SF_64k_PS	SpreadingFactor	sf16	Channelization code for UL DPDCH for a 64 kbps PS configuration
tsc_UL_DPDCH_SF_Speech	SpreadingFactor	sf64	Channelization code for UL DPDCH for a speech configuration
tsc_UL_DPDCH_SF_Streaming	SpreadingFactor	sf16	Channelization code for UL DPDCH for a Streaming 57.6 kbps configuration
tsc_UL_DTCH2	INTEGER	8	Logical channel identity for DTCH2 (uplink)
tsc_UL_DTCH3	INTEGER	9	Logical channel identity for DTCH3 (uplink)
tsc_WaitBeforeFACH_Conf	INTEGER	500	Waiting time before (re) configuration, FACH->DCH or DCH->FACH in milli seconds.
tsc_GSM_PCS1900Band_Test	INTEGER	8	indicates GSM PCS 1900 Band is under test
tsc_GSM_DCS1800Band_Test	INTEGER	7	indicates GSM DCS 1800 Band is under test
tsc_GSM_E_900Band_Test	INTEGER	6	indicates GSM E 900 Band is under test
tsc_GSM_P_900Band_Test	INTEGER	5	indicates GSM P 900 Band is under test
tsc_GSM_850Band_Test	INTEGER	4	indicates GSM 850 Band is under test
tsc_GSM_700Band_Test	INTEGER	3	indicates GSM 700 Band is under test
tsc_GSM_480Band_Test	INTEGER	2	indicates GSM 480 Band is under test
tsc_GSM_450Band_Test	INTEGER	1	indicates GSM 450 Band is under test
tsc_AGCH	G_LogicChType	3	GERAN AGCH channel type
tsc_BCCH	G_LogicChType	0	GERAN BCCH channel type
tsc_BasicPhyChCombType1	ChannelCombination	11	

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_BasicPhyChCombType13	ChannelCombination	13	Skip Indicator field consists of latter half byte after Protocol discriminator field. Its value is '0000'B in all the messages.
tsc_BasicPhyChCombType5	ChannelCombination	5	
tsc_GSM_CellA	CellId	1	
tsc_GSM_CellB	CellId	2	
tsc_GSM_CellC	CellId	3	
tsc_Gen_SkipIndicator	B4	'0000'B	
tsc_ImmediateAssignmentMsg_Type	O1	'3F'O	Message type for Immediate assignment
tsc_NormalPaging	INTEGER	0	GERAN PACCH/F channel type
tsc_PACCH_F	G_LogicChType	19	
tsc_PhyCh0	PhysicalChId	0	this physical channel identity is always used for channel combination 4 or 5.
tsc_PhyCh1	PhysicalChId	1	hopping off
tsc_RR_HopOff	B1	'0'B	
tsc_RR_Msgs_Proto_Disc	B4	'0110'B	Protocol discriminator for all the RR messages is '0110'B.
tsc_RR_PagingNormal	B2	'00'B	Normal paging type
tsc_SAPI_0	INTEGER	0	2---low repetition category. 1---high repetition category
tsc_SignallingOnly	B8	'00000000'B	
tsc_SysInfoType1	SysInfoType	25	
tsc_SysInfoType13	SysInfoType	0	
tsc_SysInfoType2	SysInfoType	26	
tsc_SysInfoType2bis	SysInfoType	2	
tsc_SysInfoType2quater	SysInfoType	7	
tsc_SysInfoType3	SysInfoType	27	
tsc_SysInfoType4	SysInfoType	28	
tsc_SysInfoType5	SysInfoType	29	
tsc_SysInfoType5bis	SysInfoType	5	
tsc_SysInfoType6	SysInfoType	30	
tsc_TN0	TN	'000'B	
tsc_LR_Category	PSI_Category	2	
tsc_HR_Category	PSI_Category	1	
tsc_Position0	PositionInList	0	
tsc_Position1	PositionInList	1	
tsc_Position2	PositionInList	2	
tsc_Position3	PositionInList	3	
tsc_CCCHConf_Combined	B3	'001'B	Power level off the Channel sufficiently high. In dbmv . Value taken arbitrarily
tsc_ChPwrLvl_High	TX_Power	63	

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_ChPwrLvl_Off	TX_Power	-10	Power level of the Channel sufficiently low so the UE cannot see it. Cell may be switched off to acheive this
tsc_DefUSF	B3	'000'B	
tsc_downlinkTFI	B5	'00001'B	
tsc_LLEntity	INTEGER	1	
tsc_PBCCH_LogicalType	INTEGER	14	
tsc_RlcMode_Ack	B1	'0'B	
tsc_TLLI_Initial	O4	'FFFFFFF'O	
tsc_uplinkTFI	B5	'00000'B	
tsc_PPCH_LogicalType	INTEGER	16	
tsc_LLC_NoCiph	B1	'0'B	
tsc_LLC_Cipher	B1	'1'B	
tsc_LLC_PM	B1	'1'B	
tsc_LLCSapi_GMM	INTEGER	1	
tsc_RFLContentsLen_3	B4	'0011'B	
tsc_RFLContentsLen_6	B4	'0110'B	
tsc_MALen_3	B6	'000011'B	5 Used in PSI3bis Instance 1 Used in PSI3Bis instance 2 Used in PSI3bis Instance 3 137 177 207 217 437 467 477 502 515 655 700 780 875 2 bits 3 bits 4 bits 5 bits 8 bits diff 2 Diff 5 Diff 10
tsc_MALen_5	B6	'000101'B	
tsc_MALen_7	B6	'000111'B	
tsc_StartFreq_5	B10	'0000000101'B	
tsc_StartFreq_90	B10	'0001011010'B	
tsc_StartFreq_100	B10	'0001100100'B	
tsc_StartFreq_122	B10	'0001111010'B	
tsc_StartFreq_137	B10	'0010001001'B	
tsc_StartFreq_177	B10	'0010110001'B	
tsc_StartFreq_207	B10	'0011001111'B	
tsc_StartFreq_217	B10	'0011011001'B	
tsc_StartFreq_437	B10	'0110110101'B	
tsc_StartFreq_467	B10	'0111010011'B	
tsc_StartFreq_477	B10	'0111011101'B	
tsc_StartFreq_502	B10	'0111110110'B	
tsc_StartFreq_515	B10	'1000000011'B	
tsc_StartFreq_655	B10	'1010001111'B	
tsc_StartFreq_700	B10	'1010111100'B	
tsc_StartFreq_780	B10	'1100001100'B	
tsc_StartFreq_875	B10	'1101101011'B	
tsc_FreqDiffLen_2bits	B3	'001'B	
tsc_FreqDiffLen_3bits	B3	'010'B	
tsc_FreqDiffLen_4bits	B3	'011'B	
tsc_FreqDiffLen_5bits	B3	'100'B	
tsc_FreqDiffLen_7bits	B3	'110'B	
tsc_FreqDiffLen_8bits	B3	'111'B	
tsc_FreqDiff_2	BITSTRING	'10'B	
tsc_FreqDiff_5	BITSTRING	'101'B	
tsc_FreqDiff_10	BITSTRING	'1010'B	

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_FreqDiff_20	BITSTRING	'10100'B	Diff 20
tsc_FreqDiff_30	BITSTRING	'11110'B	Diff 30
tsc_FreqDiff_75	BITSTRING	'1001011'B	Diff 75
tsc_FreqDiff_80	BITSTRING	'1010000'B	diff 80
tsc_FreqDiff_85	BITSTRING	'1010101'B	diff 85
tsc_FreqDiff_155	BITSTRING	'10011011'B	diff 155
tsc_FreqDiff_170	BITSTRING	'10101010'B	diff 170
tsc_PSI2_INST2_RFL_Contents_GSM	OCTETSTRING	'8C0528D9E630'O	
tsc_PSI2_INST2_RFL_Contents_GSM700	OCTETSTRING	'8CDFA8D96650'O	
tsc_PSI2_INST2_RFL_Contents_GSM850	OCTETSTRING	'8C44A8D9E630'O	
tsc_PSI2_INST2_RFL_Contents_DCSPCS	OCTETSTRING	'8904053D8280'O	
tsc_PSI2_INST3_RFL_Contents_GSM	OCTETSTRING	'8C0A1ED94B58'O	
tsc_PSI2_INST3_RFL_Contents_DCSPCS	OCTETSTRING	'892C0A3B053B761428'O	
tsc_PSI2_INST3_RFL_Contents_GSM700	OCTETSTRING	'8CE49ED94B58'O	
tsc_PSI2_INST3_RFL_Contents_GSM850	OCTETSTRING	'8C499ED94B58'O	
tsc_PSI2_MABitmap_GSM	BITSTRING	'001111'B	
tsc_PSI2_MABitmap2_DCS PCS	BITSTRING	'10101010'B	
tsc_PSI2_MABitmap3_DCS PCS	BITSTRING	'1111'B	
maxLogCHperTrCH	INTEGER	15	This constant is from MCI ASP proposal, but there is no value for it in the proposal. value 8 is for temporary use
maxdlTrCH	INTEGER	16	
maxulTrCH	INTEGER	16	
tsc_AICH1	INTEGER	7	Physical channel identity for AICH channel associated with first PRACH
tsc_AICH1_ChC	ChannelisationCode256	3	Channelization code for tsc_AICH1
tsc_AICH2	INTEGER	12	Physical channel identity for AICH2 channel associated with second PRACH
tsc_AT_ResultOK	IA5String	"<CR><LF>OK<CR><LF>"	
tsc_AttOn	INTEGER	1	Attach flag value On
tsc_AttenuationServingCell	INTEGER	0	Value of attenuator to be used when setting a Serving Cell.
tsc_BCCH1	INTEGER	1	Logical channel identity for logical channel BCCH mapped on BCH

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_BCCH6	INTEGER	6	Logical channel identity for logical channel BCCH mapped on FACH
tsc_BCH1	INTEGER	11	Identity for transport channel BCH
tsc_CRNTI	C_RNTI	'0000000000000001'B	C RNTI. Default value: '0000 0000 0000 0001'B
tsc_CS_Domain	CN_DomainIdentity	cs_domain	
tsc_CellA	INTEGER	0	Identity of Cell A
tsc_CellB	INTEGER	1	Identity of Cell B
tsc_CellC	INTEGER	2	Identity of Cell C
tsc_CellD	INTEGER	3	Identity of Cell D
tsc_CellDedicated	INTEGER	-1	Identity of the dedicated cell.
tsc_CellE	INTEGER	4	Identity of Cell E
tsc_CellF	INTEGER	5	Identity of Cell F
tsc_CellG	INTEGER	6	Identity of Cell G
tsc_CellH	INTEGER	7	Identity of Cell H
tsc_CellIdCellA	BITSTRING	'00000000000000000000000000000000'B	
tsc_CellIdCellB	BITSTRING	'00000000000000000000000000000001'B	
tsc_CellIdCellC	BITSTRING	'00000000000000000000000000000010'B	
tsc_CellIdCellD	BITSTRING	'00000000000000000000000000000011'B	
tsc_CellIdCellE	BITSTRING	'00000000000000000000000000000100'B	
tsc_CellIdCellF	BITSTRING	'00000000000000000000000000000101'B	
tsc_CellIdCellG	BITSTRING	'00000000000000000000000000000110'B	
tsc_CellIdCellH	BITSTRING	'00000000000000000000000000000111'B	
tsc_DC_ControlPDU	DC_Field	'0'B	Value for D/C field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.1
tsc_DL_CCCH5	INTEGER	5	Logical channel identity for logical channel CCCH mapped on FACH (downlink)
tsc_DL_DCCH1	INTEGER	1	Logical channel identity for DCCH1 (downlink), used by signalling radio bearer 1
tsc_DL_DCCH2	INTEGER	2	Logical channel identity for DCCH2 (downlink), used by signalling radio bearer 2
tsc_DL_DCCH3	INTEGER	3	Logical channel identity for DCCH3 (downlink), used by signalling radio bearer 3
tsc_DL_DCCH4	INTEGER	4	Logical channel identity for DCCH4 (downlink), used by signalling radio bearer 4

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_DL_DCH1	INTEGER	6	identity for transport channel DCH1 (downlink), in AMR speech this transport channel is used for RAB subflow#1
tsc_DL_DCH5	INTEGER	10	identity for transport channel DCH5 (downlink), in most case this transport channel is used for signalling bearers.
tsc_DL_DPCH1	INTEGER	26	physical channel identity for DPCH1(downlink)
tsc_DL_DPCH1_2ndScrC	SecondaryScramblingCode	1	secondary scrambling code for DL DPCH1
tsc_DL_DPCH1_ChC_64k_CS	SF512_AndCodeNumber	sf32:0	Channelization code for tsc_DL_DPCH1 for a 64 kbps CS configuration
tsc_DL_DPCH1_ChC_64k_PS	SF512_AndCodeNumber	sf32:0	Channelization code for tsc_DL_DPCH1 for a 64 kbps PS configuration
tsc_DL_DPCH1_ChC_SRB	SF512_AndCodeNumber	sf128:0	Channelization code for tsc_DL_DPCH1 for a SRB connection with a RAB established
tsc_DL_DPCH1_SFP_SRB	SF512_AndPilot	sfd128:pb4	Spreading factor and pilot bits for tsc_DL_DPCH1 for an SRB connection with a RAB established
tsc_DL_DTCH1	INTEGER	7	Logical channel identity for DTCH1 (downlink)
tsc_DL_PDSCH1	INTEGER	16	Physical channel identity for primaryPDSCH channel
tsc_DL_TxPower_DPCH	DL_TxPower	-5	down link transmit power level of DPCH used for CS RABS. Default value is -5 dBm
tsc_DL_TxPower_DPCH_64k	DL_TxPower	-2	down link transmit power level of DPCH used 64 KBPS PS RAB's Default value is -2 dBm
tsc_DPCCH_PowerOffset	DPCCH_PowerOffset	-40	DPCCH power offset value. Default value: -80 (IE Value *2),
tsc_DPCH_PowerOffsetPilot	INTEGER	0	Power offset value of PILOT on DPCH
tsc_DPCH_PowerOffsetTFI	INTEGER	0	Power offset value of TFI on DPCH
tsc_DPCH_PowerOffsetTPC	INTEGER	0	Power offset value of TPC on DPCH
tsc_DefaultDPCH_OffsetValue	DefaultDPCH_OffsetValueFDD	459	Default DPCH offset value. Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 Default value : 459

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_PDU_TypeStatus	CtrlPDU_Type	'000'B	Value for PDU type field within a STATUS PDU. Ref 3G TS 25.322 clause 9.2.2.2
tsc_PICH1	INTEGER	6	Physical channel identity for PICH channel associated with first secondary CCPCH
tsc_PICH1_ChC	ChannelisationCode256	2	Channelization code for tsc_PICH1
tsc_PICH2	INTEGER	11	Physical channel identity for PICH2 channel associated with second secondary CCPCH
tsc_PRACH1	INTEGER	8	Physical channel identity for first PRACH channel
tsc_PRACH1_SF	SF_PRACH	sfpr64	Channelization code for UL DPDCH for PRACH1
tsc_PRACH1_ScrC	PreambleScramblingCodeWordNumber	0	Scrambling code for preamble of PRACH1
tsc_PRACH1_Signatures	AvailableSignatures	'000000001111111'B	available signatures for PRACH. (from 34.108 cl. 6.1 (SIB5))
tsc_PRACH2	INTEGER	9	Physical channel identity for second PRACH channel
tsc_PS_Domain	CN_DomainIdentity	ps_domain	
tsc_P_CCPCH	INTEGER	4	Physical channel identity for primary CCPCH channel
tsc_P_CPICH	INTEGER	0	Physical channel identity for primary CPICH channel
tsc_P_SCH	INTEGER	1	Physical channel identity for primary SCH channel
tsc_PowerAICH	AICH_PowerOffset	-5	relative transmission power level of AICH. The power level is specified relatively to power level of CPICH in terms of AICH_Ec. Default is -5 dBm/3.84MHz
tsc_PowerPICH	PICH_PowerOffset	-5	relative transmission power level of PICH. The power level is specified relatively to power level of CPICH in terms of PICH_Ec. Default is -5 dBm/3.84MHz
tsc_PowerpCCPCH	DL_TxPower	-2	transmission power level of primary CCPCH relative to CPICH. Default is -2 dBm.
tsc_PowerpCPICH	DL_TxPower_PCPICH	-60	transmission power level of primary CPICH. The power level is specified in terms of CPICH_Ec. Default is -60 dBm.
tsc_PowerpSCH	DL_TxPower	-5	transmission power level of primary SCH relative to CPICH. Default is -5 dBm.

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_PowersCCPCH1	DL_TxPower	-2	transmission power level of secondary CCPCH1 relative to CPICH. Default is -2 dBm
tsc_PowersSCH	DL_TxPower	-5	transmission power level of secondary SCH relative to CPICH. Default is -5 dBm
tsc_PuncLimit	PuncturingLimit	pl1	puncturing limit for PRACH. default value is 1. Default value: Pl1
tsc_RACH1	INTEGER	15	transport channel identity for RACH
tsc_RAC_Def	OCTETSTRING	'05'O	Routing Area Code, 1 octet, 3GPP 24.008 clause 10.5.1.12.3
tsc_RB0	INTEGER	0	signalling radio bearer on TM + CCCH
tsc_RB1	INTEGER	1	signalling radio bearer on UM + DCCH
tsc_RB10	INTEGER	10	radio access bearer identity, in AMR speech this RB is RAB subflow#1, in other cases this is a radio access bearer
tsc_RB11	INTEGER	11	radio access bearer identity, in AMR speech this RB is RAB subflow#2, in some other cases this is the signalling radio bearer for TM + BCCH_FACH.
tsc_RB12	INTEGER	12	radio access bearer, in AMR speech this RB is RAB subflow#3, in some other cases this is the bearer for TM PCCH
tsc_RB13	INTEGER	13	radio access bearer, in AMR speech this RB is RAB subflow#3, in some other cases this is the bearer for TM PCCH
tsc_RB2	INTEGER	2	signalling radio bearer on AM + DCCH
tsc_RB20	INTEGER	20	radio access bearer for PS RAB
tsc_RB21	INTEGER	21	radio access bearer for PS RAB
tsc_RB22	INTEGER	22	Second AM radio access bearer for PS
tsc_RB24	INTEGER	24	Second AM radio access bearer for PS
tsc_RB25	INTEGER	25	PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB29	INTEGER	29	RB Id for Radio bearer that carries the 2nd CCCH in the DL

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_RB3	INTEGER	3	signalling radio bearer on AM + DCCH for high priority NAS_DT
tsc_RB30	INTEGER	30	radio access bearer for CBS RAB
tsc_RB31	INTEGER	31	
tsc_RB4	INTEGER	4	signalling radio bearer on AM + DCCH for low priority NAS_DT
tsc_RB_2ndCCCH	INTEGER	-5	uplink signalling radio bearer on TM + second CCCH
tsc_RB_2ndPCCH	INTEGER	-4	radio bearer identity for bearer on TM + PCCH + PCH used for sending paging message when there is no RAB subflows for speech.
tsc_RB_AM_15_RLC	SS_RB_Identity	-13	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate an AM RLC entity using 15 bit length indicators. The RB identity can be used by the SS decoder to determine which RLC mode is being simulated.
tsc_RB_AM_7_RLC	SS_RB_Identity	-12	A negative value is used to indicate that the SS configuration is not identical to the UE configuration. RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate an AM RLC entity using 7 bit length indicators. The RB identity can be used by the SS decoder to determine which RLC mode is being simulated.
tsc_RB_BCCH	INTEGER	-1	A negative value is used to indicate that the SS configuration is not identical to the UE configuration. radio bearer identity for bearer on TM + BCCH + BCH used for broadcasting system information blocks
tsc_RB_BCCH_FACH	INTEGER	-3	signalling radio bearer on TM + BCCH + FACH + sCCPCH1
tsc_RB_BCCH_FACH_RAB	INTEGER	-19	RB Id for Radio bearer that carries the 2nd BCCH

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_RB_CCCH_FACH_MAC	SS_RB_Identity	-18	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate the CCCH mapped to FACH. The RB identity can be used by the SS decoder to determine which MAC configuration is being simulated. A negative value is used to indicate that the SS configuration is not identical to the UE configuration.
tsc_RB_DCCH_DCH_MAC	SS_RB_Identity	-15	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate the high priority NAS SRB mapped to DCH. The RB identity can be used by the SS decoder to determine which MAC configuration is being simulated. A negative value is used to indicate that the SS configuration is not identical to the UE configuration.
tsc_RB_DCCH_FACH_MAC	SS_RB_Identity	-14	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate the high priority NAS SRB mapped to FACH. The RB identity can be used by the SS decoder to determine which MAC configuration is being simulated. A negative value is used to indicate that the SS configuration is not identical to the UE configuration.
tsc_RB_PCCH	INTEGER	-2	radio bearer identity for bearer on TM + PCCH + PCH used for sending paging message when there is no RAB subflows for speech.
tsc_RB_PCCH2	INTEGER	-4	

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_RB_UM_15_RLC	SS_RB_Identity	-11	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate a UM RLC entity using 15 bit length indicators. The RB identity can be used by the SS decoder to determine which RLC mode is being simulated. A negative value is used to indicate that the SS configuration is not identical to the UE configuration.
tsc_RB_UM_7_RLC	SS_RB_Identity	-10	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate a UM RLC entity using 7 bit length indicators. The RB identity can be used by the SS decoder to determine which RLC mode is being simulated. A negative value is used to indicate that the SS configuration is not identical to the UE configuration.
tsc_SFN_OffsetA	INTEGER	0	SFN offset values for cell A Default value: 0
tsc_SFN_OffsetB	INTEGER	0	SFN offset values for cell B Default value: 0
tsc_SFN_OffsetC	INTEGER	0	SFN offset values for cell C Default value: 0
tsc_SFN_OffsetD	INTEGER	3000	SFN offset values for cell D Default value: 3000
tsc_SFN_OffsetE	INTEGER	3000	SFN offset values for cell E Default value: 3000
tsc_SFN_OffsetF	INTEGER	678	SFN offset values for cell F Default value: 678
tsc_SFN_OffsetG	INTEGER	1356	SFN offset values for cell G Default value: 1356
tsc_SFN_OffsetH	INTEGER	2034	SFN offset values for cell H Default value: 2034
tsc_SMPD	ProtocolDiscriminator	'1010'B	SM protocol discriminator
tsc_SS_CS_Domain	SS_CN_DomainIdentity	0	
tsc_SS_PS_Domain	SS_CN_DomainIdentity	1	
tsc_S_CCPCH1	INTEGER	5	Physical channel identity for first secondary CCPCH channel

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_S_CCPCH1_ChC	SF256_AndCodeNumber	sf64:1	Channelization code for tsc_S_CCPCH1
tsc_S_CCPCH2	INTEGER	10	Physical channel identity for second secondary CCPCH channel
tsc_S_CCPCH3	INTEGER	13	Physical channel identity forThird secondary CCPCH channel
tsc_S_CCPCH_2ndScrCode	INTEGER	0	Secondary scrambling code for S-CCPCH channels
tsc_S_SCH	INTEGER	2	Physical channel identity for secondary SCH channel
tsc_SlotFormatsCCPCH1	SCCPCHSlotFormat	8	channelization code for secondary CCPCH1 when spreading factor = 64, default value is 8. Default value: 8
tsc_T3212_Def	OCTETSTRING	'1E'O	infinite
tsc_TPC_CombinationIndex	TPC_CombinationIndex	0	
tsc_TT01	INTEGER	5000	TC protocol Timer: 5 sec (shall be 2,5 sec)
tsc_TWaitSysInfo	INTEGER	5000	Wait for the completion of SysInfo sending
tsc_TimingsCCPCH1	INTEGER	0	timing offset for secondary CCPCH1. default is 0. Default value: 0
tsc_TpcStepSize	TPC_StepSizeFDD	0	Value 0 corresponds to 1 dB
tsc_UE_TestLoopMode1	UE_TestLoopMode	'00'O	mode 1 with DCCH dummy transmission disabled
tsc_UL_CCCH5	INTEGER	5	Logical channel identity for logical channel CCCH mapped RACH (uplink)
tsc_UL_DCCH1	INTEGER	1	Logical channel identity for DCCH1 (uplink), used by signalling radio bearer 1
tsc_UL_DCCH2	INTEGER	2	Logical channel identity for DCCH2 (uplink), used by signalling radio bearer 2
tsc_UL_DCCH3	INTEGER	3	Logical channel identity for DCCH3 (uplink), used by signalling radio bearer 3
tsc_UL_DCCH4	INTEGER	4	Logical channel identity for DCCH4 (uplink), used by signalling radio bearer 4
tsc_UL_DCH1	INTEGER	1	identity for transport channel DCH1 (uplink), in AMR speech this transport channel is used for RAB subflow#1
tsc_UL_DCH2	INTEGER	2	identity for transport channel DCH2 (uplink), in AMR speech this transport channel is used for RAB subflow#2

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_UL_DCH5	INTEGER	5	identity for transport channel DCH5 (uplink), in most case this transport channel is used for signalling bearers.
tsc_UL_DPCH1	INTEGER	20	physical channel identity for DPCH1(uplink)
tsc_UL_DPDCH_SF_SRB	SpreadingFactor	sf64	Channelization code for UL DPDCH for an SRB connection with a RAB established
tsc_UL_DTCH1	INTEGER	7	Logical channel identity for DTCH1 (uplink)
tsc_UL_MAC_Prt1	MAC_LogicalChannelPriority	1	
tsc_UL_MAC_Prt2	MAC_LogicalChannelPriority	2	
tsc_UL_MAC_Prt3	MAC_LogicalChannelPriority	3	
tsc_UL_MAC_Prt4	MAC_LogicalChannelPriority	4	
tsc_URA_IdCellA	BITSTRING	'0000000000000001'B	
tsc_URA_IdCellB	BITSTRING	'0000000000000001'B	
tsc_URA_IdCellC	BITSTRING	'0000000000000010'B	
tsc_URA_IdCellD	BITSTRING	'0000000000000010'B	
tsc_URA_IdCellE	BITSTRING	'0000000000000011'B	
tsc_URA_IdCellF	BITSTRING	'0000000000000011'B	
tsc_URA_IdCellG	BITSTRING	'0000000000000100'B	
tsc_URA_IdCellH	BITSTRING	'0000000000000100'B	
tsc_USIM_NeedRmv	BOOLEAN	TRUE	Removal of USIM is needed in a test case (USIM is not always inserted)
tsc_WaitBeforePaging	INTEGER	5000	Waiting time before PAGING (ms)
tsc_sCCPCH_PowerOffset PILOT	INTEGER	6	Power offset value of PILOT on sCCPCH
tsc_sCCPCH_PowerOffset TFCI	INTEGER	6	Power offset value of TFCI on sCCPCH
tsc_AttLevToPower70_dBm	INTEGER	tsc_PowerpCPICH + 70	Attenuation level used for setting low power level. High power level used is -70 dBm for CPICH RSCP
tsc_DL_hs_SCCH_TxPower	DL_TxPower	0	??
tsc_HSPDSCH	INTEGER	18	physical channel identity for HS-PDSCH.
tsc_NewHRNTI	H_RNTI	'1010101010101010'B	
tsc_NewHRNTI2	H_RNTI	'0101010101010101'B	
tsc_RAB_DefPS_HS	B8	'00000101'B	Default RAB Id for HS AM DTCH for PS domain

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
tsc_RB17	INTEGER	17	Fifth PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB18	INTEGER	18	Fifth PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB19	INTEGER	19	Fifth PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB26	INTEGER	26	second PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB27	INTEGER	27	Third PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB28	INTEGER	28	Fourth PS Radio Bearer associated with a DTCH on HS-DSCH
tsc_RB5	INTEGER	5	signalling radio bearer on TM + DCCH for AMR Signalling
tsc_RB_MAC_HS	SS_RB_Identity	-25	RB Identity used for configuration of a TM RLC entity in the SS that will be used to simulate a UM RLC entity using 7 bit length indicators. The RB identity can be used by the SS decoder to determine which RLC mode is being simulated. A negative value is used to indicate that the SS configuration is not identical to the UE configuration.
tsc_RB_TestData_41984	BITSTRING	o_GetLeastSignificantBits(o_OctToBit(o_GetN_OctetsFromPRBS(0,5248)),41984)	Test Data 41984 bits
tsc_Sf4	SpreadingFactor	sf4	
tsc_Sfc256_C0	SF512_AndCodeNumber	sf256: 0	
Detailed Comments :			

Test Suite Constant Declarations By Reference				
Constant Name	Type	Value Reference	Module Identifier	Comments
hiPDSCHEntities	INTEGER	hiPDSCHEntities	Class-definitions	
hiPUSCHEntities	INTEGER	hiPUSCHEntities	Class-definitions	
hiRM	INTEGER	hiRM	Class-definitions	
maxAC	INTEGER	maxAC	Class-definitions	
maxAdditionalMeas	INTEGER	maxAdditionalMeas	Class-definitions	
maxASC	INTEGER	maxASC	Class-definitions	
maxASCmap	INTEGER	maxASCmap	Class-definitions	
maxASCpersist	INTEGER	maxASCpersist	Class-definitions	
maxCCTrCH	INTEGER	maxCCTrCH	Class-definitions	
maxCellMeas	INTEGER	maxCellMeas	Class-definitions	
maxCellMeas_1	INTEGER	maxCellMeas-1	Class-definitions	
maxCNdomains	INTEGER	maxCNdomains	Class-definitions	
maxCPCHsets	INTEGER	maxCPCHsets	Class-definitions	
maxDPCH_DLchan	INTEGER	maxDPCH-DLchan	Class-definitions	
maxDPDCH_UL	INTEGER	maxDPDCH-UL	Class-definitions	
maxDRACclasses	INTEGER	maxDRACclasses	Class-definitions	
maxFACHPCH	INTEGER	maxFACHPCH	Class-definitions	
maxFreq	INTEGER	maxFreq	Class-definitions	
maxFreqBandsFDD	INTEGER	maxFreqBandsFDD	Class-definitions	
maxFreqBandsTDD	INTEGER	maxFreqBandsTDD	Class-definitions	
maxFreqBandsGSM	INTEGER	maxFreqBandsGSM	Class-definitions	
maxGERAN_SI	INTEGER	maxGERAN-SI	Class-definitions	
maxHProcesses	INTEGER	maxHProcesses	Class-definitions	
maxHSSCCHs	INTEGER	maxHSSCCHs	Class-definitions	
maxInterSysMessages	INTEGER	maxInterSysMessages	Class-definitions	
maxLoCHperRLC	INTEGER	maxLoCHperRLC	Class-definitions	
maxMAC_d_PDUsize s	INTEGER	maxMAC-d-PDUsize s	Class-definitions	
maxMeasEvent	INTEGER	maxMeasEvent	Class-definitions	
maxMeasIntervals	INTEGER	maxMeasIntervals	Class-definitions	
maxMeasParEvent	INTEGER	maxMeasParEvent	Class-definitions	
maxNumCDMA2000F reqs	INTEGER	maxNumCDMA2000F reqs	Class-definitions	
maxNumGSMFreqRan ges	INTEGER	maxNumGSMFreqRan ges	Class-definitions	
maxNumFDDFreqs	INTEGER	maxNumFDDFreqs	Class-definitions	
maxNumTDDFreqs	INTEGER	maxNumTDDFreqs	Class-definitions	
maxOtherRAT	INTEGER	maxOtherRAT	Class-definitions	
maxOtherRAT_16	INTEGER	maxOtherRAT-16	Class-definitions	
maxPage1	INTEGER	maxPage1	Class-definitions	
maxPCPCH_APsig	INTEGER	maxPCPCH-APsig	Class-definitions	
maxPCPCH_APsubC h	INTEGER	maxPCPCH-APsubC h	Class-definitions	
maxPCPCH_CDsig	INTEGER	maxPCPCH-CDsig	Class-definitions	
maxPCPCH_CDsubC h	INTEGER	maxPCPCH-CDsubC h	Class-definitions	
maxPCPCH_SF	INTEGER	maxPCPCH-SF	Class-definitions	
maxPCPCHs	INTEGER	maxPCPCHs	Class-definitions	
maxPDCPAlgoType	INTEGER	maxPDCPAlgoType	Class-definitions	

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Test Suite Constant Declarations By Reference				
Constant Name	Type	Value Reference	Module Identifier	Comments
maxPDSCH	INTEGER	maxPDSCH	Class-definitions	
maxPDSCH_TFCIgroups	INTEGER	maxPDSCH-TFCIgroups	Class-definitions	
maxPRACH	INTEGER	maxPRACH	Class-definitions	
maxPRACH_FPACH	INTEGER	maxPRACH-FPACH	Class-definitions	
maxPUSCH	INTEGER	maxPUSCH	Class-definitions	
maxQueueIDs	INTEGER	maxQueueIDs	Class-definitions	
maxRABsetup	INTEGER	maxRABsetup	Class-definitions	
maxRAT	INTEGER	maxRAT	Class-definitions	
maxRB	INTEGER	maxRB	Class-definitions	
maxRBallRABs	INTEGER	maxRBallRABs	Class-definitions	
maxRBMuxOptions	INTEGER	maxRBMuxOptions	Class-definitions	
maxRBperRAB	INTEGER	maxRBperRAB	Class-definitions	
maxReportedGSMCells	INTEGER	maxReportedGSMCells	Class-definitions	
maxRL	INTEGER	maxRL	Class-definitions	
maxRL_1	INTEGER	maxRL-1	Class-definitions	
maxROHC_PacketSizes_r4	INTEGER	maxROHC-PacketSizes-r4	Class-definitions	
maxROHC_Profile_r4	INTEGER	maxROHC-Profile-r4	Class-definitions	
maxSat	INTEGER	maxSat	Class-definitions	
maxSCCPCH	INTEGER	maxSCCPCH	Class-definitions	
maxSIB	INTEGER	maxSIB	Class-definitions	
maxSIB_FACH	INTEGER	maxSIB-FACH	Class-definitions	
maxSIBperMsg	INTEGER	maxSIBperMsg	Class-definitions	
maxSRBsetup	INTEGER	maxSRBsetup	Class-definitions	
maxSystemCapability	INTEGER	maxSystemCapability	Class-definitions	
maxTF	INTEGER	maxTF	Class-definitions	
maxTF_CPCH	INTEGER	maxTF-CPCH	Class-definitions	
maxTFC	INTEGER	maxTFC	Class-definitions	
maxTFCsub	INTEGER	maxTFCsub	Class-definitions	
maxTFCI_2_Combs	INTEGER	maxTFCI-2-Combs	Class-definitions	
maxTGPS	INTEGER	maxTGPS	Class-definitions	
maxTrCH	INTEGER	maxTrCH	Class-definitions	
maxTrCHpreconf	INTEGER	maxTrCHpreconf	Class-definitions	
maxTS	INTEGER	maxTS	Class-definitions	
maxTS_1	INTEGER	maxTS-1	Class-definitions	
maxTS_2	INTEGER	maxTS-2	Class-definitions	
maxTS_LCR	INTEGER	maxTS-LCR	Class-definitions	
maxTS_LCR_1	INTEGER	maxTS-LCR-1	Class-definitions	
maxURA	INTEGER	maxURA	Class-definitions	
maxURNTI_Group	INTEGER	maxURNTI-Group	Class-definitions	
Detailed Comments :				

Test Suite Variable Declarations			
Variable Name	Type	Value	Comments
tsv_AuthSQN	BITSTRING	'00000000000000000000000000000000 00000000000000000000000000000000 00000'B	48 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2) used and updated whenever an authentication is performed
Detailed Comments :			

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_TestPointCount	INTEGER	1	1 to 70 for Mac-D PDU Size 336 1-42 for MAC-D PDU size 656
tcv_TestPoint	HSDPA_TestPoint		
tcv_HarqProcess	INTEGER	0	Valid Values 0 to 7
tcv_FLAG	BOOLEAN	FALSE	A General purpose
tcv_RecStatusMatchRes	ResAndSUFI		To Store the Result send by the SUPER TSO 0_SUFI_Handler
tcv_RecStatusPDU	MAC_D_PDU		This variable is used to store a received STATUS PDU. No default value is provided, because it is not possible to come up with a sensible default STATUS PDU.
tcv_MAC_Counter	INTEGER	0	A general variable which can be used as a counter
tcv_MIB_CellA	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.
tcv_MIB_CellB	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellB, px_PriScrmCode, tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 1000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.
tcv_MIB_CellC	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 2000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_MIB_CellD	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 7000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.
tcv_MIB_CellE	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 4000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.
tcv_MIB_CellF	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 5000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.
tcv_MIB_CellG	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 6000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.
tcv_MIB_CellH	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 5000) MOD 16777216)))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_QoS_Iv	QualityOfService_Iv		to store the Quality of Service Parameters to send
tcv_RB_Data1	BITSTRING	'0'B	
tcv_RB_Data2	BITSTRING	'0'B	
tcv_SB1_CellA	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellB	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellC	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellD	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellE	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellF	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellG	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_SB1_CellH	SysInfoTypeSB1	c_SB1_Def	the initial value c_SB1_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN.
tcv_Segs_SIB12	SegmentsOfSysInfoBlock		Variable buffering the result of SIB12 Segmentation

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_IdleSIB11_CellA	SysInfoType11	cb_SIB11_Def(c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellB, px_PriScrmCode, tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode) , c_CellInfoDef (tsc_CellD, px_PriScrmCode, tsc_URA_IdCellD, px_TCellD, tsc_SFN_OffsetD, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tcv for holding Sib11 contents of Cell A used in Idle Mode test cases

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_IdleSIB11_CellB	SysInfoType11	tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)) cb_SIB11_Def(c_CellInfoDef (tsc_CellB, px_PriScrmCode, tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode),c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tcv for holding Sib11 contents of Cell A used in Idle Mode test cases

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_IdleSIB11_CellC	SysInfoType11	tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode) , c_CellInfoDef (tsc_CellD, px_PriScrmCode, tsc_URA_IdCellD, px_TCellD, tsc_SFN_OffsetD, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)) cb_SIB11_Def(c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode) , c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode) , c_CellInfoDef (tsc_CellB, px_PriScrmCode	tcv for holding Sib11 contents of Cell A used in Idle Mode test cases

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
		<pre> , tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode) , c_CellInfoDef (tsc_CellD, px_PriScrmCode, tsc_URA_IdCellD, px_TCellD, tsc_SFN_OffsetD, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)) </pre>	

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_IdleSIB11_CellID	SysInfoType11	cb_SIB11_Freq2(c_CellInfoDef (tsc_CellID, px_PriScrmCode, tsc_URA_IdCellID, px_TCellID, tsc_SFN_OffsetD, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellB, px_PriScrmCode, tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tcv for holding Sib11 contents of Cell A used in Idle Mode test cases

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_IdleSIB12_CellA	SysInfoType12	tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)) cb_SIB12_Def	tcv for holding Sib12 contents of Cell A used in Idle Mode test casesShould not be used without initialisation.
tcv_IdleSIB12_CellB	SysInfoType12	cb_SIB12_Def	tcv for holding Sib12 contents of Cell A used in Idle Mode test cases
tcv_IdleSIB12_CellC	SysInfoType12	cb_SIB12_Def	tcv for holding Sib12 contents of Cell A used in Idle Mode test cases
tcv_IdleSIB12_CellD	SysInfoType12	cb_SIB12_Freq2	tcv for holding Sib12 contents of Cell A used in Idle Mode test cases
tcv_Tm	Tcell	0	Tm in cellSynchronisationInfo
tcv_RelInd	AccessStratumReleaseIndica tor	spare1	To hold the release indicator
tcv_ActPDP_ContextReq	ACTIVATEPDPCONTEXTRE QUESTul		To hold the received ACTIVATE PDPD CONTEXT REQUEST PDU
tcv_AT_Cmd	IA5String	""	To hold acomandline to be sent to the UT
tcv_DlyClass	B3	'011'B	To store Delay class
tcv_Len	INTEGER	0	
tcv_LenBit	Length	'00'O	
tcv_PktDataProtoAddr	PktDataProtoAddr_Iv	cs_PktDataProtoAddrMT_Iv ('00'O, px_PDP_IP_AddrInfoDCH)	To hold the Packet Data Protocol address
tcv_StaticPDP_AddressRec eived	BOOLEAN	FALSE	This variable is used to flag if in the PDP Context Req message UE has requested for Static PDP context address, so that PDP address will not be re allocated in PDP context Accept.

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_TI_R	TI	cs_TI_MT	Transaction Identifier value used to receive CC PDU
tcv_TI_S	TI	cs_TI_MT	Transaction Identifier value used to send CC PDU
tcv_TrafficClass	B3	'011'B	To store Traffic class
tcv_ChRequest	CHANNELREQUEST		To store the received channel request msg. during the RACH access
tcv_G_CellConfigInfo	G_CellConfigInfo	c_G_CellConfigInfoGSM900	
tcv_G_CellInfoA	G_CellConfigInfo	c_G_CellConfigInfoGSM900_CellA	To store the Default CellConfigInfo of GSM CELL A c_G_CellConfigInfo(20,tsc_G_DLPwrLvl,tsc_G_CellA,tsc_G_MCC_Def,tsc_G_MNC_Def,tsc_G_LAC_Def)
tcv_G_CellInfoB	G_CellConfigInfo	c_G_CellConfigInfoGSM900_CellB	To store the Default CellConfigInfo of GSM CELL B c_G_CellConfigInfo(40,tsc_G_DLPwrLvl,tsc_G_CellB,tsc_G_MCC_Def,tsc_G_MNC_Def,tsc_G_LAC_Def)
tcv_G_CellInfoC	G_CellConfigInfo	c_G_CellConfigInfoGSM900_CellC	To store the Default CellConfigInfo of GSM CELL C c_G_CellConfigInfo(40,tsc_G_DLPwrLvl,tsc_G_CellB,tsc_G_MCC_Def,tsc_G_MNC_Def,tsc_G_LAC_Def)
tcv_RR_ChannelType	G_LogicChType		To store the received channel type
tcv_RR_ChannelType2	G_LogicChType		To store the received channel type
tcv_RR_RA	INTEGER		To store the received Random Access
tcv_RR_RFN	RFN		To store the received RFN
tcv_RR_Subchannel	SubChannelNumber		To store the received subchannel
tcv_RR_Subchannel2	SubChannelNumber		To store the received subchannel
tcv_RAC	O1	'05'O	Default value 5
tcv_oldTLLI	TLLI	tsc_TLLI_Initial	To store the old TLLI
tcv_TLLI	TLLI	tsc_TLLI_Initial	To store the received TLLI
tcv_USFRate	INTEGER	1	Used to slow down data block transmission rate in GPRS
tcv_PCCCHParams	PCCCH_OrganisationParameters	c_PCCCHParams	
tcv_TmpPktCtrlAckPdu	PACKETCONTROLACKNOWLEDGEMENT		

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_GPRS_CipherAlg	GPRS_CipherAlg	'000'B	off Default GERAN value NMO 1 This tcv should be overwritten by what is sent by the UE
tcv_Gamma	B5	'00100'B	
tcv_M	INTEGER		
tcv_NMO	B2	'00'B	
tcv_SplitPGCycle	DRXparamter	c_SplitPGCycleInitial	
tcv_StartingTime	RFN		
tcv_ARFCN	B10	INT_TO_BIT(30, 10)	
tcv_PSI2_Instance2	PSI2Info	c_PSI2_Instance2_GSM	
tcv_PSI2_Instance3	PSI2Info		
tcv_PSI3_Instance1	PSI3Info		
tcv_PSI3_Instance2	PSI3Info		Contains details of UTRAN cells used in 8.3.7.13 to handle the SETUP message during the RAU normally 3, unless PSI3quater or PSI5 sent
tcv_PSI3_Instance3	PSI3Info		
tcv_PSI3_Instance4	PSI3Info		
tcv_PBCCHFreqInfo	FreqInfo		
tcv_SI2quaterRO	SI2quaterRO		
tcv_SetupExpected	BOOLEAN	FALSE	
tcv_PSI_LowRate	B6	'000011'B	
tcv_AddPSIMsgs	BOOLEAN	FALSE	
tcv_ActTime	ActivationTime	0	
tcv_Assigned_PTMSI_Sig	O3	px_PTMSI_SigDef	
tcv_AssignedPTMSI	OCTETSTRING	px_PTMSI_Def	Current assigned PTMSI
tcv_AssignedTMSI	OCTETSTRING	px_TMSI_Def	Current assigned TMSI
tcv_AuthAK	BITSTRING	INT_TO_BIT (0, 48)	Anonymity Key 48 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthAMF	BITSTRING	px_AuthAMF	Authentication Management Field 16 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthAUTN	B128	INT_TO_BIT (0, 128)	to hold complete calculated AUTN 128 bits (TS24.008 cl 10.5.3.1.1)
tcv_AuthAUTN_1	B48	INT_TO_BIT (0, 48)	to hold first part of calculated AUTN 64 bits
tcv_AuthAUTN_2	B80	INT_TO_BIT (0, 80)	to hold second part of calculated AUTN 64 bits
tcv_AuthCDOUT	BITSTRING	INT_TO_BIT (0, 64)	CDOUT 64 bits (TS 34.108 cl. 8.1.2)
tcv_AuthCK	BITSTRING	INT_TO_BIT (0, 128)	Ciphering Key 128 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthCK_1	BITSTRING	INT_TO_BIT (0, 64)	Ciphering Key 1st part (bits 0–63) 64 bits (TS 33.102 cl. 6.8.1.2)

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_AuthCK_2	BITSTRING	INT_TO_BIT (0, 64)	Ciphering Key 2nd part (bits 64–127) 64 bits (TS 33.102 cl. 6.8.1.2)
tcv_AuthCK_XOR	BITSTRING	INT_TO_BIT (0, 64)	Ciphering Key 1st and 2nd part, XORed 64 bits (TS 33.102 cl. 6.8.1.2)
tcv_AuthIK	BITSTRING	INT_TO_BIT (0, 128)	Integrity Key 128 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthIK_1	BITSTRING	INT_TO_BIT (0, 64)	Integrity Key 1st part (bits 0–63) 64 bits (TS 33.102 cl. 6.8.1.2)
tcv_AuthIK_2	BITSTRING	INT_TO_BIT (0, 64)	Integrity Key 2nd part (bits 64–127) 64 bits (TS 33.102 cl. 6.8.1.2)
tcv_AuthIK_XOR	BITSTRING	INT_TO_BIT (0, 64)	Integrity Key 1st and 2nd part, XORed 64 bits (TS 33.102 cl. 6.8.1.2)
tcv_AuthK	BITSTRING	px_AuthK	Authentication Key 128 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthKcGSM	BITSTRING	INT_TO_BIT (0, 64)	GSM Cipher Key 64 bits (TS 33.102 cl. 6.8.1.2)
tcv_AuthMAC	BITSTRING	INT_TO_BIT (0, 64)	Message Authentication Code 64 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthN	INTEGER	px_AuthN	min 31, max 127 (TS 34.108 cl. 8.1.2)
tcv_AuthRAND	BITSTRING	px_AuthRAND	Random Challenge 128 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_AuthRsp	AuthRsp	INT_TO_BIT (0,32)	to hold a Authentication Response parameter value received from the UE 32 bits (TS 24.008 cl 10.5.3.2)
tcv_AuthRspExt	AuthRspExt		to hold a Authentication Response Extension parameter value received from the UE 96 bits (TS24.008 cl 10.5.3.2.1)
tcv_AuthRspPDU	AUTHENTICATIONRESPONSE		to hold a Authentication Response PDU
tcv_AuthXDOUT	BITSTRING	INT_TO_BIT (0, 128)	XDOUT 128 bits (TS 34.108 cl. 8.1.2)
tcv_AuthXDOUT_Half	BITSTRING	INT_TO_BIT (0, 64)	lower half of XDOUT 64 bits (TS 34.108 cl. 8.1.2)
tcv_AuthXRES	BITSTRING	INT_TO_BIT (0, 32)	XRES min 32, max 128 bits (TS 34.108 cl. 8.1.2)

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_BCCH_ModifyTime	INTEGER	512	To hold the BCCH modification time to be used by PAGING TYPE1 or SYSTEM INFORMATION CHANGE INDICATION. The initial value indicates changing now.
tcv_CellIndInfo	CellIndependantInfo	c_CellIndInfoDef	
tcv_CellInfoA	CellInfoCfg	c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)	
tcv_CellInfoB	CellInfoCfg	c_CellInfoDef (tsc_CellB, px_PriScrmCode, tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 1000) MOD 16777216))	
tcv_CellInfoC	CellInfoCfg	c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 2000) MOD 16777216))	
tcv_CellInfoD	CellInfoCfg	c_CellInfoDef (tsc_CellD, px_PriScrmCode, tsc_URA_IdCellD, px_TCellD, tsc_SFN_OffsetD, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 3000) MOD 16777216))	

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_CellInfoE	CellInfoCfg	c_CellInfoDef (tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 4000) MOD 16777216))	
tcv_CellInfoF	CellInfoCfg	c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 5000) MOD 16777216))	
tcv_CellInfoG	CellInfoCfg	c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 6000) MOD 16777216))	
tcv_CellInfoH	CellInfoCfg	c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 7000) MOD 16777216))	
tcv_CipherActTime	ActivationTime	0	Activation Time
tcv_CN_Domain	CN_DomainIdentity	cs_domain	To hold a temporary counter value.
tcv_Count	INTEGER	0	
tcv_CS_KeySeq	KeySeq	tsc_KeySeqDef	To be used in test cases that require a non default radio configuration. TRUE: a default radio configuration is to be used FALSE: a non default radio configuration is to be used.
tcv_DefaultRadioCnf	BOOLEAN	TRUE	
tcv_dRX_CycleLengthPaging	UTRAN_DRX_CycleLength Coefficient		DRX cycleLength value to be used for PAGING

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_E_PLMN	PLMN_List	c_PLMN_List1 (o_ConvtPLMN(tsc_MCC_ Def, tsc_MNC_Def))	Values 0..4095
tcv_FrameNumber	INTEGER	0	
tcv_FreqInfoHigh	FrequencyInfo	c_FreqInfo (px_UARFCN_D_High – 950 , px_UARFCN_D_High)	
tcv_FreqInfoLow	FrequencyInfo	c_FreqInfo (px_UARFCN_D_Low – 950 , px_UARFCN_D_Low)	
tcv_FreqInfoMid	FrequencyInfo	c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid)	This TCV is to be used in Idle update step in NMO2 for a class A Mobile
tcv_GMM_AttachExpect	BOOLEAN	FALSE	
tcv_GMM_AttachRec	BOOLEAN	FALSE	
tcv_GMM_DetachExpect	BOOLEAN	FALSE	
tcv_GMM_RAU_Expect	BOOLEAN	FALSE	This TCV is to be used in the Detach Handling
tcv_GMM_RAU_Rec	BOOLEAN	FALSE	This TCV is to be used in the Routing Area Update Handler
tcv_HFN	B20	'00000000000000000000'B	This TCV is to be used in the Routing Area Update Handler
tcv_InitialUE_Id	InitialUE_Identity	c_UE_IdDefIMSI	Hyper Frame Number for CS or PS domain – to be used in security steps
tcv_Int_ModifyFlag	BOOLEAN	FALSE	Used to store the UE Identity
tcv_K	INTEGER	0	This Flag will be used in Security related steps. If it is set to True, it means that A Integrity Modification is being done at that stage.
tcv_MIB	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode))	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re-initialized to c_MIB_Def_UTRAN.

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_MIB_ValueTagChanged	BOOLEAN	TRUE	initial value = TRUE, set to TRUE after MIBValueTag changed, set to FALSE after MIB delivered to SS.
tcv_MM_TestExecution	BOOLEAN	FALSE	Indication of MM test execution, set to TRUE once NMO II is set, used to properly handle ATTACH and DETACH procedures in MM tests
tcv_N308	INTEGER	2	Number of cells configured This TCV is used to decide if the test case is a Single PLMN or Multi PLMN test case and based on it initialise SIB 11, 12 & 18 accordingly. Values 1>> 1 PLMN, 2 >> 2 PLMN, 3 >> 3 PLMN Rest Not defined
tcv_NumCfgCell	INTEGER	0	
tcv_NumOfPLMN	INTEGER	1	
tcv_PollSDU	Poll_SDU	sdu1	number of SDU's between pollings, this initial value is for ts_SS_CreateCellFACH. (from 34.123-1). used in RB2, RB3, RB4.
tcv_PollWindow	PollWindow	pw99	percentage of transmission window,threshold for polling, this initial value is for ts_SS_CreateCellFACH. (from 34.123-1). used in RB2, RB3, RB4.
tcv_PS_AuthCK	BITSTRING	INT_TO_BIT (0, 128)	Ciphering Key for PS domain 128 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_PS_AuthIK	BITSTRING	INT_TO_BIT (0, 128)	Integrity Key for PS domain 128 bits (TS 33.102 cl. 6.3.7, TS 34.108 cl. 8.1.2)
tcv_PS_KeySeq	KeySeq	tsc_KeySeqDef	Ciphering key sequence number for PS domain
tcv_RAB_Id	B8	'00000000'B	to hold the RABId received in a SETUP or a CALL CONFIRMED message
tcv_RB_ActivationTimeInfoList	RB_ActivationTimeInfoList	cs_RB_ActTimeInfoListSRBs (0,0,0,0)	Set to TRUE if RB test mode is activated. To be used in the postamble: when RB test mode has been used then NAS do not need to be released.
tcv_RB_SigResumed	BOOLEAN	FALSE	
tcv_RB_TestModeActivated	BOOLEAN	FALSE	

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_ReceivePS_ServiceReq	BOOLEAN	FALSE	This Type tcv by default will be set to False. It will be set to TRUE, when MO Service request has been rejected, and hence Ue can retransmit Service Request which should be handled in Default handlers.
tcv_Res	BOOLEAN	FALSE	to hold the BOOLEAN result of a test suite operation or a test Step
tcv_RLC_IgnoreStatus	BOOLEAN	FALSE	This variable is used to indicate that an RLC STATUS PDU may be received and should be ignored .
tcv_RLC_SeqNumDL_RB1	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB1
tcv_RLC_SeqNumDL_RB2	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB2
tcv_RLC_SeqNumDL_RB20	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB20
tcv_RLC_SeqNumDL_RB21	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB21
tcv_RLC_SeqNumDL_RB22	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB22
tcv_RLC_SeqNumDL_RB24	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB24
tcv_RLC_SeqNumDL_RB3	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB3
tcv_RLC_SeqNumDL_RB4	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB4
tcv_RRC_EstCauMO	EstablishmentCause	originatingConversationalCall	To hold the establishment cause for MO call that is supported by UE. Assigned in ts_RRC_InitVariables.
tcv_RRC_EstCauMT	EstablishmentCause	terminatingConversationalCall	To hold the establishment cause for MT call that is supported by UE. Assigned in ts_RRC_InitVariables.
tcv_RRC_MSN_RB0	RRC_SequenceNumber	0	Used to store the MSN of RB0
tcv_RRC_MSN_RB1	RRC_SequenceNumber	0	Used to store the MSN of RB1
tcv_RRC_MSN_RB2	RRC_SequenceNumber	0	Used to store the MSN of RB2
tcv_RRC_MSN_RB2_UL	RRC_SequenceNumber	0	Used to store the UL MSN of RB2
tcv_RRC_MSN_RB3	RRC_SequenceNumber	0	Used to store the MSN of RB3
tcv_RRC_MSN_RB4	RRC_SequenceNumber	0	Used to store the MSN of RB4
tcv_RRC_PagingCau	PagingCause	terminatingConversationalCall	To hold the paging cause for MT call that is supported by UE. Assigned in ts_RRC_InitVariables.

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_RRC_RAB_Type	RB_ConfigType	cell_DCH_64kCS_RAB_SRB	To hold the RAB config type that is supported by the UE. Assigned in ts_RRC_InitVariables.
tcv_RRC_RelStatus	RRC_Rel_Status	cell_Dch	To hold the RRC Transaction Identifier. the initial value c_SB1_DefUTRAN GERAN is for UTRAN/GERAN, for UTRAN only tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN. To hold current SB1_ValueTag, value range is 1 to 4. initial value = FALSE, set to TRUE after SB1_ValueTag changed, set to FALSE after SB1 delivered to SS. Variable buffering the result of SIBSegmentation
tcv_RRC_Ti	RRC_TransactionIdentifier	0	
tcv_SB1	SysInfoTypeSB1	c_SB1_Def	
tcv_SB1_ValueTag	INTEGER	1	
tcv_SB1_ValueTagChanged	BOOLEAN	FALSE	
tcv_Segs	SegmentsOfSysInfoBlock		
tcv_SIB1	SysInfoType1	cb_SIB1_Def (c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFNOffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode))	
tcv_SIB11	SysInfoType11	cb_SIB11_Def(c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFNOffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellB, px_PriScrmCode, tsc_URA_IdCellB, px_TCellB, tsc_SFNOffsetB, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellC, px_PriScrmCode, tsc_URA_IdCellC, px_TCellC, tsc_SFNOffsetC, c_FreqInfo	

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_SIB12	SysInfoType12	fo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellD, px_PriScrmCode, tsc_URA_IdCellD, px_TCellD, tsc_SFN_OffsetD, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellE, px_PriScrmCode, tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellF, px_PriScrmCode, tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode), c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)) cb_SIB12_Def	
tcv_SIB18	SysInfoType18		no initial value
tcv_SIB2	SysInfoType2		no initial value

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_SIB3	SysInfoType3	cb_SIB3_DefUTRAN_GERAN (c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode))	the initial value c_SB3_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SIB3 shall be re-initialized to c_SB3_DefUTRAN.
tcv_SIB4	SysInfoType4	cb_SIB4_DefUTRAN_GERAN (c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode))	the initial value c_SB4_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_SIB4 shall be re-initialized to c_SB4_DefUTRAN.
tcv_SIB7	SysInfoType7	c_SIB7_Def	
tcv_Start	START_Value	'00000000000000000000'B	To hold the START value received in the INITIAL DIRECT TRANSFER message
tcv_StartList	STARTList	c_StartListCS	To hold the START list sent by UE
tcv_SubChNum	AvailableSubChannelNumbers	'111111111111'B	Available subchannel numbers for PRACH, this initial value is for ts_SS_CreateCellFACH. (from 34.108 cl. 6.1 (SIB5))
tcv_TestBody	BOOLEAN	FALSE	to indicate if the test body is currently being executed
tcv_TGCFN	TGCFN	0	
tcv_TimeoutInDefault	BOOLEAN	FALSE	Indication of a TimeoutInDefault having occurred
tcv_TimerPoll	TimerPoll	tp400	value for polling timer, this initial value is for ts_SS_CreateCellFACH. (from 34.123–1). used in RB2, RB3, RB4
tcv_TimerPollProhibit	TimerPollProhibit	tpp200	minimum time between polls, this initial value is for ts_SS_CreateCellFACH. (from 34.123–1). used in RB2, RB3, RB4
tcv_TmpAttachReqPDU	ATTACHREQUEST		Temporary variable
tcv_TmpAuthAndCiphRspPDU	AUTHENTICATIONANDCIPHERINGRESPONSE		Temporary variable
tcv_TmpB3	B3	'000'B	Temporary variable

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Test Case Variable Declarations			
Variable Name	Type	Value	Comments
tcv_TmpCellInfo	CellInfoCfg	c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid – 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)	To temporary store CellInfo data
tcv_TmpRAU_ReqPDU	ROUTINGAREAUPDATEREQUEST		Temporary variable
tcv_UE_OpMode	UE_OperationMode	px_UE_OpModeDef	Indicates the current UE operation mode (either A or C).
tcv_UE_SwitchedOn	BOOLEAN	TRUE	This value is to represent the state of the UE. TRUE means UE is Switched/Powered On, and hence only Switch/Power OFF operation can be done, and no Switch/Power On operation. False Means, UE is off, and only Switch/Power On Operation can be done. This Variable is introduced to help automation of test cases. The default value of ON, is consistent with present Test Sequence, where MMI command to switch/Power off is called before creation of the first cell on SS Side.
tcv_UE_SystemSpecificCap	INTEGER	0	use to represent the integer equivalent of 7 bit UE system specific Capability. The Valid range is 0 to 127
tcv_Use_E_PLMN	BOOLEAN	FALSE	The user of ts_IdleUpdated needs to set tcv_Use_E_PLMN to 'True' if he wants to send 'equivalent PLMN list' as set in tcv_E_PLMN during CS or PS registration
tcv_MaxSDUSize	MaxSDU_Size	'20'O	
tcv_UL_BitRate	MaxBitRate	'68'O	Maximum UL bit rate requested by UE ('68'O = 384 kbps)
tcv_RLC_SeqNumDL_RB17	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB17
tcv_RLC_SeqNumDL_RB25	RLC_SequenceNumber	0	Downlink RLC Sequence Number for RB25
tcv_HS_Cfg	HSDPA_ConfigType	c_HSDPA_CfgDef	
tcv_RAB_HSDPA_Info	RAB_HSDPA_Info	c_RAB_HSDPA_Info	
Detailed Comments :			

PCO Type Declarations		
PCO Type	Role	Comments
G_CSAP	LT	
G_DSAP	LT	
DSAP	LT	
CSAP	LT	
Dc_SAP	LT	
MMI	UT	
Detailed Comments :		

PCO Declarations			
PCO Name	PCO Type	Role	Comments
G_CL1	G_CSAP	LT	Control GERAN Physical Layer (L1)
G_CL2	G_CSAP	LT	Control GERAN L2
G_CLLC	G_CSAP	LT	Control GPRS LLC layer
G_CRLC	G_CSAP	LT	Control GPRS RLC/MAC layer
G_L2	G_DSAP	LT	Control and observation point of GERAN L3 messages and user data
G_LLC	G_DSAP	LT	Control and observation point of GPRS GMM signalling messages
G_RLC	G_DSAP	LT	Control and observation point of GPRS GRR signalling messages
AM	DSAP	LT	PCO above AM SAP of RLC
CMAC	CSAP	LT	Control and observation point between RRC and MAC
CPHY	CSAP	LT	Control and observation point between RRC and PHY
CRLC	CSAP	LT	Control and observation point between RRC and RLC
Dc	Dc_SAP	LT	Carry transmission and reception of NAS messages
TM	DSAP	LT	PCO above TM SAP of RLC
UM	DSAP	LT	PCO above UM SAP of RLC
Ut	MMI	UT	The PCO used for the upper tester
Detailed Comments :			

Timer Declarations			
Timer Name	Duration	Unit	Comments
t_3390	8	s	Timer T3390, 24.008, section 11.2.3
t_TimeoutInDefault	300	ms	Used to catch timeouts in the Defaults
t_Dly	5000	ms	general purpose delay timer
t_Guard	300	s	test case guard timer
t_LowerBound	4500	ms	the lower bound timer
t_T312	1	s	Timer to check physical channel establishment criteria
t_UpperBound	5500	ms	the upper bound timer
t_WaitMS	13500	ms	general wait timer
t_WaitS	15	s	general watch timer
Detailed Comments :			

ASP Type Definition		
ASP Name : G_CL1_ChangePowerLevel_CNF PCO Type : G_CSAP Comments : The ASP is used to get confirmation of a G_CL1_ChangePowerLevel_REQ		
Parameter Name	Parameter Type	Comments
cellId physicalChId	CellId PhysicalChId	Channel identifier
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_ChangePowerLevel_REQ PCO Type : G_CSAP Comments : The ASP is used to change the transmission power level of a physical channel		
Parameter Name	Parameter Type	Comments
cellId physicalChId txPower	CellId PhysicalChId TX_Power	Channel identifier the new transmission power level. in dBuVemf()
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_ComingFN_CNF PCO Type : G_CSAP Comments : The ASP is used to receive the result of G_CL1_ComingFN_REQ.		
Parameter Name	Parameter Type	Comments
cellId physicalChId g_LogicChType subChannel rfn	CellId PhysicalChId G_LogicChType SubChannelNumber RFN	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3). this field is not applicable and the SS shall ignore it if this field is coded as 15 the reduced 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 specified by "physicalChId"+"G_LogicChType"+"sub Channel"
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_ComingFN_REQ PCO Type : G_CSAP Comments : The ASP is used to request lower layer return the reduced frame number (FN modulo 42432) which is far enough in the future from current frame number and is able to carry L3 message on the specified channel. The requirement of "far enough" is that there is enough time left for TTCN to prepare a L3 message to send before that frame.		
Parameter Name	Parameter Type	Comments
cellId physicalChId g_LogicChType subChannel	CellId PhysicalChId G_LogicChType SubChannelNumber	Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3). this field is not applicable and the SS shall ignore it if this field is coded as 15
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_CreateBasicPhyCh_CNF PCO Type : G_CSAP Comments : the ASP is used to get confirmation of G_CL1_CreateBasicPhyCh_REQ		
Parameter Name	Parameter Type	Comments
cellId physicalChId	CellId PhysicalChId	The cell which the created channel belongs to identifier of the physical channel created
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_CreateBasicPhyCh_REQ PCO Type : G_CSAP Comments : the ASP is used to create a basic physical channel in GERAN		
Parameter Name	Parameter Type	Comments
cellId	CellId	the cell which the channel to be created belongs to
physicalChId	PhysicalChId	identifier of the physical channel in the SS
channelCombination	ChannelCombination	logical channels combined onto the basic physical channel
freqInfo	FreqInfo	parameters for description of the physical channel in frequency domain
timeSlot	TN	the time slot number of the physical channel
tSC	TSC	training sequence code. for common control and broadcast channels the value of tsc must be equal to BCC (base station colour code)
channelSpecificPara	ChannelSpecificInfo	specific parameters related to individual channel
txPower	TX_Power	transmission power level of the channel
bandIndicator	BITSTRING[1]	Parameter for DCS or PCS frequency band selection. A value 0 for frqInfo.arfcn interpreted as DCS1800. A value 1 for frqInfo.arfcn interpreted as PCS1900. If omitted, the value in frqInfo.arfcn interpreted as DCS1800.
Detailed Comments : The value of channel Combination permitted currently: 1 TCH/F + FACCH/F + SACCH/TF 2 TCH/H(0,1) + FACCH/H(0,1) + SACCH/TH(0,1) 3 TCH/H(0,0) + FACCH/H(0,1) + SACCH/TH(0,1) + TCH/H(1,1) 4 FCCH + SCH + BCCH + CCCH 5 FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3) 6 BCCH + CCCH 7 SDCCH/8(0..7) + SACCH/C8(0.. 7) 8 TCH/F + FACCH/F + SACCH/M 9 TCH/F + SACCH/M 10 TCH/FD + SACCH/MD 11 PBCCH+PCCCH+PDTCH/F+PACCH/F+PTCCH/F 12 PCCCH+PDTCH/F+PACCH/F+PTCCH/F 13 PDTCH/F+PACCH/F+PTCCH/F 18 E-TCH/F + E-IACCH/F + E-FACCH/F + SACCH/TF 19 E-TCH/F + E-IACCH/F + E-FACCH/F + SACCH/M 20 E-TCH/F + E-IACCH/F + SACCH/M 21 E-TCH/FD + E-IACCH/F + SACCH/MD		

ASP Type Definition		
ASP Name : G_CL1_CreateCell_CNF PCO Type : G_CSAP Comments : the ASP is used to get confirmation of G_CL1_CreateCell_REQ		
Parameter Name	Parameter Type	Comments
cellId	CellId	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_CreateCell_REQ PCO Type : G_CSAP Comments : the ASP is used to create a cell in GERAN		
Parameter Name	Parameter Type	Comments
cellId	CellId	Base transceiver station identity code = NCC+BCC 3GPP TS 23.003 clause 4.3.2.
baseId	BITSTRING[6]	
timingAdvance	BITSTRING[8]	The SS sets the timing advance of downlink direction timing by this value
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_DeleteCell_CNF PCO Type : G_CSAP Comments : the ASP is used to get confirmation of G_CL1_DeleteCell_REQ		
Parameter Name	Parameter Type	Comments
cellId	CellId	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_DeleteCell_REQ PCO Type : G_CSAP Comments : the ASP is used to delete a cell in GERAN		
Parameter Name	Parameter Type	Comments
cellId	CellId	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_DeleteChannel_CNF		
PCO Type : G_CSAP		
Comments : the ASP is used to get confirmation of G_CL1_DeleteChannel_REQ		
Parameter Name	Parameter Type	Comments
cellId	CellId	The cell which the deleted channel belongs to identifier of the channel or multi-slot configuration deleted
physicalChId	PhysicalChId	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL1_DeleteChannel_REQ		
PCO Type : G_CSAP		
Comments : the ASP is used to delete a basic physical channel or multi-slot configuration		
Parameter Name	Parameter Type	Comments
cellId	CellId	The cell which the channel to be deleted belongs to identifier of the physical channel or the multi-slot configuration to be deleted
physicalChId	PhysicalChId	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL2_MeasRptControl_CNF		
PCO Type : G_CSAP		
Comments : The ASP is used to confirm that the G_CL2_MeasRptControl_REQ was executed correctly		
Parameter Name	Parameter Type	Comments
cellId	CellId	Channel identifier
physicalChId	PhysicalChId	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CL2_MeasRptControl_REQ PCO Type : G_CSAP Comments : The ASP is used to enable or disable the reporting of received Measurement Reports to the TTCN		
Parameter Name	Parameter Type	Comments
cellId	CellId	Channel identifier
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	Valid only for logical channel types: SACCH/TF, SACCH/TH, SACCH/C8 and SACCH/C4
subChannel	SubChannelNumber	For SACCH/TH value is (0..1), for SACCH/C8 value is (0..7) and for SACCH/C4 value is (0..3)
sendMeasRpts	BOOLEAN	Whether or not to report received Measurement Reports to the TTCN
Detailed Comments : Per default, this will be set to FALSE		

ASP Type Definition		
ASP Name : G_CLLC_Assign_CNF PCO Type : G_CSAP Comments : the ASP is used to get confirmation of G_CLLC_Assign_REQ		
Parameter Name	Parameter Type	Comments
ILMEId	LLMEId	Logical Layer Management Entity Id
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CLLC_Assign_REQ PCO Type : G_CSAP Comments : the ASP is used to assign, change or unassign the TLLI, the cipher key (Kc) and the cipher algorithm of GERAN LLC emulator module.		
Parameter Name	Parameter Type	Comments
cellId oldTLLI newTLLI cipherKey cipherAlgorithm	CellId TLLI TLLI BITSTRING[64] GPRS_CipherAlg	OCTETSTRING[4] BITSTRING[3], 3GPP TS 24.008 section 10.5.5.3
Detailed Comments : This ASP is used to assign, change, or unassign the TLLI, the ciphering key (Kc) and the ciphering algorithm. 1. The oldTLLI and newTLLI parameters shall be interpreted as follows:– If oldTLLI = all 1's and newTLLI = all 1's then newTLLI is assigned and used when (re?)transmitting LLC frames. If an oldTLLI = all 1's was assigned to the LLME, then oldTLLI is unassigned. Only newTLLI is accepted when received from the peer. It shall be treated as a TLLI change. If oldTLLI = all 1's was assigned to the LLME, then this shall be treated as a TLLI assignment, and this ASP shall be the first ASP sent to the SS in order to enable LLC to process requests from layer 3.– If oldTLLI = all 1's and newTLLI = all 1's then oldTLLI and newTLLI are assigned, and newTLLI shall be used when (re?)transmitting LLC frames. Both oldTLLI and newTLLI shall be accepted when received from the peer. It shall be treated as a TLLI change.– If oldTLLI = all 1's and newTLLI = all 1's then oldTLLI shall be unassigned. It shall be treated as a TLLI unassignment, and this ASP shall be the last ASP sent to the SS in order to disable LLC to not process requests from layer 3 any longer.2. Kc and Ciphering Algorithm are associated with newTLLI (and with oldTLLI if assigned):– If Ciphering Algorithm indicates no ciphering, then the ciphering function shall be disabled.– Otherwise, the ciphering function shall be enabled. If a Ciphering Algorithm was already associated with newTLLI or oldTLLI, then the new Kc shall replace the previous Kc, and Ciphering Algorithm shall replace the previous algorithm selection. All I frames, and UI frames with the E bit set to 1, shall use the new Kc and algorithm for ciphering. All unacknowledged I frames shall be ciphered using the new Kc and algorithm before retransmission. As an implementation option, the previous Kc and algorithm may be used to decipher received frames.		

ASP Type Definition		
ASP Name : G_CRLC_DL_TBF_Config_CNF PCO Type : G_CSAP Comments : the ASP is used to get confirmation of G_CRLC_DL_TBF_Config_REQ		
Parameter Name	Parameter Type	Comments
cellId tFI	CellId TFI	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CRLC_DL_TBF_Config_REQ PCO Type : G_CSAP Comments : the ASP is used to configure a TBF used for down link data transfer		
Parameter Name	Parameter Type	Comments
cellId	CellId	0 – GPRS; 1 – EGPRS
tFI	TFI	
tBF_Mode	BITSTRING[1]	0 – acknowledged mode; 1 – unacknowledged mode
channelCoding	ChannelCoding	
rLC_Mode	BITSTRING[1]	Downlink TBF time slot allocation
timeSlotAllocation	TimeSlotAllocation	
startingTime	RFN	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.
dataBlockRate	INTEGER	This parameter controls the speed of the DL TBF transferring data blocks by controlling the USF rate: 1----> implementation dependent. TTCN does not specify the USF generating rate; 2----> 10 data blocks per second; 3----> 5 data blocks per second; 4----> 1 data block per second; 5----> 1 data block 2 seconds; 6----> 1 data block 3 seconds; 7----> 1 data block 4 seconds
Detailed Comments : For GPRS channel coding can be: CS-1, CS-2, CS-3 and CS-4;For EGPRS channel coding can be : MCS-1, MCS-2, MCS-3, MCS-4, MCS-5, MCS-6, MCS-7, MCS-8, MCS-9, MCS-5-7 and MCS-6-9.		

ASP Type Definition		
ASP Name : G_CRLC_UL_TBF_Config_CNF		
PCO Type : G_CSAP		
Comments : The ASP is used to get confirmation of G_CRLC_UL_TBF_Config_REQ		
Parameter Name	Parameter Type	Comments
cellId	CellId	
tFI	TFI	
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CRLC_UL_TBF_Config_REQ PCO Type : G_CSAP Comments : the ASP is used to configure a TBF used for uplink data transfer		
Parameter Name	Parameter Type	Comments
cellId	CellId	0 – GPRS; 1 – EGPRS
tFI	TFI	
tBF_Mode	BITSTRING[1]	
channelCoding	ChannelCoding	0 – CS–1 or MCS–1(EGPRS); 1 – same as channelCoding
tLLI_BlockChannelCoding	BITSTRING[1]	
rLC_Mode	BITSTRING[1]	0 – acknowledged mode; 1 – unacknowledged mode
startingTime	RFN	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.
uSF_Rate	INTEGER	This parameter controls the speed of the UL TBF transferring data blocks by controlling the USF rate: 1----> implementation dependent. TTCN does not specify the USF generating rate; 2----> 10 USF's per second; 3----> 5 USF's per second; 4----> 1 USF per second; 5----> 1 USF per 2 seconds; 6----> 1 USF per 3 seconds; 7----> 1 USF per 4 seconds
dynamicAllocation	DynamicAllocation	dynamic allocation and other parameters.
Detailed Comments : For GPRS channel coding can be: CS–1, CS–2, CS–3 and CS–4;For EGPRS channel coding can be : MCS–1, MCS–2, MCS–3, MCS–4, MCS–5, MCS–6, MCS–7, MCS–8, MCS–9, MCS–5–7 and MCS–6–9. Due to one cell currently has only one RLC/MAC emulation module, this ASP does not contain RLC/MAC identity parameter to indicate which RLC/MAC emulation module this TBF is established for, instead, the parameter cellId implicitly indicates the RLC/MAC module, which is created by G_CRLC_CreateRLC_MAC_REQ and has identifier RlcMacEntityId in the cell. The higher layer (LLC emulation module) uses rLC/MAC_MappingInfo (with type of CellId) to address the RLC/MAC emulation module to which it connects		

ASP Type Definition		
ASP Name : G_L2_ACCESS_IND PCO Type : G_DSAP Comments : The ASP is used to receive a random access or handover access burst on the specified channel.		
Parameter Name	Parameter Type	Comments
cellId	CellId	Channel identifier RACH, FACCH, SDCCH/8, SDCCH/4. RACH is used for random access burst; others are used for handover access burst
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	
subChannel	SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8, SDCCH/4.
rfr	RFN	The reduced frame number of the frame carrying the burst
burst	PDU	random access burst or handover access burst
Detailed Comments :		

ASP Type Definition		
ASP Name : G_L2_DATA_IND PCO Type : G_DSAP Comments : The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in acknowledged mode.		
Parameter Name	Parameter Type	Comments
cellId	CellId	0 or 3 Channel identifier
sAPI	SAPI	
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3). It shall be ignored if this is coded as 15
subChannel	SubChannelNumber	
rfr	RFN	The reduced frame number of the first frame on which this message is received
msg	PDU	Signalling message or user data received
Detailed Comments :		

ASP Type Definition		
ASP Name : G_L2_DATA_REQ PCO Type : G_DSAP Comments : The ASP is used to send L3 signalling message on the signalling channels or user data on the traffic channels to the UE/MS in acknowledged mode.		
Parameter Name	Parameter Type	Comments
cellId sAPI physicalChId g_LogicChType subChannel	CellId SAPI PhysicalChId G_LogicChType SubChannelNumber	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
rfn	RFN	The reduced frame number of the first frame on which this message is sent.If the field t2 of rfn is coded as '11111'B lower layer shall ignore this field.
msg	PDU	Signalling message or user data to be sent
Detailed Comments : Parameter rfn is only used in the test cases which requires specific L3 message to be sent on specified frame number		

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

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

ASP Type Definition		
ASP Name : G_L2_Release_IND PCO Type : G_DSAP Comments : The ASP is used to receive an indication of the termination of an established multiple frame operation or an indication of an unsuccessful establishment attempt.		
Parameter Name	Parameter Type	Comments
cellId	CellId	0 Channel identifier
sAPI	SAPI	
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
subChannel	SubChannelNumber	
release_Mode	BITSTRING[1]	0 = normal release; 1 = local end release
outstanding_Indicator	BOOLEAN	whether or not there are outstanding acknowledgements or unsolved G_L2_DATA_REQ primitives.
Detailed Comments :		

ASP Type Definition		
ASP Name : G_L2_SYSINFO_REQ PCO Type : G_DSAP Comments : The ASP is used to send system information messages to the lower layer emulator.		
Parameter Name	Parameter Type	Comments
cellId	CellId	0 Channel identifier BCCH or SACCH To indicate the instance of the system information messages. For SYSTEM INFORMATION Type 2ter, 18, 19, 20 the value is (0..7); for type 14, 15 the value is (0..3); for type 2quater the value is (0..15); for all other type the value is 0.
sAPI	SAPI	
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	
instanceIndex	INTEGER	
sysInfoType	SysInfoType	SYSTEM INFORMATION Type 5, 5bis, 5ter, and 6 are sent on SACCH, the other SYSTEM INFORMATION 's are sent on BCCH.
bCCHExt	B1	'0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
msg	PDU	This field contains SYSTEM INFORMATION message. See 3GPP TS 44.018 section 9.1.31 to section 9.1.43h for SYSTEM INFORMATION message definitions.
Detailed Comments : The lower layer emulator shall store the SYSTEM INFORMATION's, and transmit them periodically according to the rules specified in section 6.3.1.3 of 3GPP TS 45.002. The msg shall override the same type system information message previous stored in the lower layer emulator. SYSTEM INFORMATION scheduling assumption: all SI's except SI7, SI8, SI16 and SI17 are scheduled on BCCH Norm. Consequently, SI13, SI2bis and SI2quater are scheduled in TC=4 on BCCH norm not on BCCH Ext		

ASP Type Definition		
ASP Name : G_L2_UNITDATA_IND PCO Type : G_DSAP Comments : The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in unacknowledged mode.		
Parameter Name	Parameter Type	Comments
cellId sAPI physicalChId g_LogicChType subChannel	CellId SAPI PhysicalChId G_LogicChType SubChannelNumber	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
rfn	RFN	The reduced frame number of the first frame carrying the message
msg	PDU	Signalling message or user data received
Detailed Comments :		

ASP Type Definition		
ASP Name : G_L2_UNITDATA_REQ PCO Type : G_DSAP Comments : The ASP is used to send L3 signalling message on the signalling channels or send user data on the traffic channels to the UE/MS in unacknowledged mode.		
Parameter Name	Parameter Type	Comments
cellId sAPI physicalChId g_LogicChType subChannel	CellId SAPI PhysicalChId G_LogicChType SubChannelNumber	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
rfn	RFN	The reduced frame number of the first frame on which this message is sent.If the field t2 of rfn is coded as '11111'B lower layer shall ignore this field.
msg	PDU	Signalling message or user data to be sent
Detailed Comments : Parameter rfn is only used in the test cases which requires specific L3 message to be sent on specified frame number		

ASP Type Definition		
ASP Name : G_LLC_UNITDATA_IND		
PCO Type : G_DSAP		
Comments : The ASP is used to receive an L3 PDU from the UE/MS in LLC unconfirmed transmission.		
Parameter Name	Parameter Type	Comments
ILMEId	LLMEID	temporary logical link identifier
tLLI	TLLI	
sAPI	SAPI	
msg	PDU	L3 PDU
Detailed Comments : 3GPP TS 44.064 clause 8.4.2		

ASP Type Definition		
ASP Name : G_LLC_UNITDATA_REQ PCO Type : G_DSAP Comments : The ASP is used to transmit an L3 PDU to the UE/MS in LLC unconfirmed transmission.		
Parameter Name	Parameter Type	Comments
ILMEId	LLMEID	temporary logical link identifier
tLLI	TLLI	
sAPI	SAPI	
protectMode	BITSTRING[1]	
cipherMode	BITSTRING[1]	0 --- unprotected; 1 --- protected
msg	PDU	0 --- sent without no encryption;1 --- sent with encryptionencrypted L3 PDU
Detailed Comments : 3GPP TS 44.064 clause 8.4.1 After the ciphering function is started in the SS by G_CLLC_Assign_REQ, the SS shall encrypt the "msg" when cipherMode = '1', and the SS shall not encrypt the "msg" if cipherMode = '0'.		

ASP Type Definition		
ASP Name : G_RLC_ControlMsg_IND PCO Type : G_DSAP Comments : The ASP is used to receive an uplink RLC/MAC control block sent by the UE/MS on the specified channel.		
Parameter Name	Parameter Type	Comments
cellId	CellId	Channel identifier
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	PCCCH or PACCH or PTCCH
tBF_Direction	INTEGER	0 --- downlink; 1 --- uplink
tFI	TFI	temporary flow identity
rFn	RFN	the reduced frame number of the frame carrying this message
msg	PDU	uplink RLC/MAC control message
Detailed Comments : Logical channel type PDTCH is valid for PACKET ENHANCED MEASUREMENT REPORT message only. The ASP is not used to receive PACKET CHANNEL REQUEST, EGPRS PACKET CHANNEL REQUEST and burst format of PACKET CONTROL ACKNOWLEDGEMENT which are received by G_RLC_ACCESS_IND.		

ASP Type Definition		
ASP Name : G_RLC_ControlMsg_REQ PCO Type : G_DSAP Comments : The ASP is used to transmit a down link RLC/MAC control message to the UE/MS on the specified channel.		
Parameter Name	Parameter Type	Comments
cellId	CellId	Channel identifier PCCCH or PACCH or PTCCH 0 --- downlink; 1 --- uplink temporary flow identity relative reserved block period supplementary/polling bit The reduced frame number of the first frame on which this message is sent.If the field t2 of rfn is coded as '11111'B lower layer shall ignore this field.
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	
tBF_Direction	INTEGER	
tFI	TFI	
rRBP	RRBP	
s_P_Bit	S_P_Bit	
rfn	RFN	
pagingGroup	PAGING_GROUP	for message other than PACKET PAGING REQUEST this field shall be omitted
pagingMode	PagingMode	0 --- normal paging;1--- exteded paging;3 --- paging reorganization.this field is valid only for PACKET PAGING REQUEST control message, for message other than PACKET PAGING REQUEST this field shall be omitted
msg	PDU	Down link RLC/MAC control message
Detailed Comments : This ASP provides values for "RRBP" and "S/P" fields in MAC header for TTCN controlling the response from the UE, the value for "PayloadType" and "USF" fields in MAC header shall be filled by the SS.If a RLC/MAC control message can not be fitted into one RLC/MAC control block, the SS RLC/MAC entity shall take the responsibility of segmentation of the message, and set the correct "PayloadType" and optional octet1 (and optional octet2).PTCCH is valid for PACKET TIMING ADVANCE/POWER CONTROL message if sending PACKET PAGING REQUEST.The required 52-multiframe occurs when: $\text{pagingGroup div (M div 64) = (FN div 52) mod 64}$ The index to the required paging block in the 51-multiframe determined above: $\text{Paging block index} = \text{pagingGroup mod (M div 64)}M = (12 - \text{BS_PAG_BLKS_RES} - \text{BS_PBCCH_BLKS}) \times 64$		

ASP Type Definition		
ASP Name : G_RLC_PSI_REQ PCO Type : G_DSAP Comments : The ASP is used to send packet system information messages to the lower layer emulator.		
Parameter Name	Parameter Type	Comments
cellId	CellId	Channel identifier PBCCH or PACCH or PCCCH PSI1 or high repetition rate or low repetition rate Position in the high repetition rate list or the low repetition rate list, for PSI1 this field has no meaning. This field contains PACKET SYSTEM INFORMATION message. See 3GPP TS 44.060 section 11.2.18 to section 11.2.25 for PACKET SYSTEM INFORMATION message definitions.
physicalChId	PhysicalChId	
g_LogicChType	G_LogicChType	
packetSysInfoCategory	PSI_Category	
positionInList	PositionInList	
msg	PDU	
Detailed Comments : On BCCH, the lower layer emulator shall store the PACKET SYSTEM INFORMATION's, and transmit them according to the rules specified in section 6.3.2.4 of 3GPP TS 45.002. The msg shall override the same type system information message previous stored in the lower layer emulator. Multiple instances of a PSI shall be put in the same list and in ascending order of the message instance number.		

ASP Type Definition		
ASP Name : G_CRLC_DeleteRLC_MAC_REQ PCO Type : G_CSAP Comments : The ASP is used to delete a RLC/MAC entity in GERAN emulation module.		
Parameter Name	Parameter Type	Comments
cellId	CellId	The identifier of the cell
Detailed Comments : This ASP is used to release any resource used for the RLC/MAC emulation entity in the SS.		

ASP Type Definition		
ASP Name : G_CRLC_DeleteRLC_MAC_CNF PCO Type : G_CSAP Comments : The ASP is used to confirm the G_CRLC_DeleteRLC_MAC_REQ		
Parameter Name	Parameter Type	Comments
cellId	CellId	The identifier of the cell
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CRLC_CreateRLC_MAC_REQ PCO Type : G_CSAP Comments : The ASP is used to create a RLC/MAC entity in GERAN RLC/MAC emulation module.		
Parameter Name	Parameter Type	Comments
cellId	CellId	The identifier of the cell
Detailed Comments : One RLC/MAC entity per cell can exist, cellId will be used for coupling LLC layer module to the RLC/MAC emulation module.. The packet channel description given in the ChannelSpecificInfo of G_CL1_CreateBasicPhyCh_REQ shall be used to configure this layer. This ASP shall be called after the G_CL1_CreateBasicPhyCh_REQ ASP.		

ASP Type Definition		
ASP Name : G_CRLC_CreateRLC_MAC_CNF PCO Type : G_CSAP Comments : The ASP is used to confirm the G_CRLC_CreateRLC_MAC_REQ		
Parameter Name	Parameter Type	Comments
cellId	CellId	The identifier of the cell
Detailed Comments :		

ASP Type Definition		
ASP Name : G_CLLC_CreateLLE_REQ PCO Type : G_CSAP Comments : The ASP is used to create an LLE (LLC Entity) in GERAN LLC emulation module.		
Parameter Name	Parameter Type	Comments
ILMEId rLC_MAC_MappingInfo	LLMEId CellId	Logical Layer Management Entity Id This parameter indicates the RLC/MAC emulation module in the cell, not the cell itself.
Detailed Comments : The RLC/MAC emulation module needs to be created prior to this ASP by G_CRLC_CreateRLC_MAC_REQ ASP.		

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

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

ASP Type Definition		
ASP Name : G_CLLC_DeleteLLE_CNF PCO Type : G_CSAP Comments : The ASP is used to confirm the G_CLLC_DeleteLLE_REQ		
Parameter Name	Parameter Type	Comments
ILMEId	LLMEId	The identifier of the cell Logical Layer Management Entity Id
Detailed Comments :		

ASP Type Definition		
ASP Name : AT_CmdCnf PCO Type : MMI Comments : The ASP is used get the result of a requested AT command previously sent to the UT (UT ->LT).		
Parameter Name	Parameter Type	Comments
result	BOOLEAN	OPTIONAL
resultString	IA5String	OPTIONAL
sMS_BlockMode	HEXSTRING	to control and observe the Block mode procedure for SMS
Detailed Comments :		

ASP Type Definition		
ASP Name : AT_CmdReq PCO Type : MMI Comments : The ASP is used to request a AT command to the UT (LT ->UT).		
Parameter Name	Parameter Type	Comments
cmd	IA5String	command line
sMS_BlockMode	HEXSTRING	to control and observe the Block mode procedure for SMS
Detailed Comments :		

ASP Type Definition		
ASP Name : MMI_CmdCnf		
PCO Type : MMI		
Comments : The ASP is used get the result of a requested command previously sent to the UT (UT ->LT).		
Parameter Name	Parameter Type	Comments
result	BOOLEAN	
resultString	IA5String	OPTIONAL
Detailed Comments :		

ASP Type Definition		
ASP Name : MMI_CmdReq		
PCO Type : MMI		
Comments : The ASP is used to request an MMI command to the UT (LT ->UT).		
Parameter Name	Parameter Type	Comments
cmd	IA5String	command line
Detailed Comments :		

ASP Type Definition		
ASP Name : RLC_AM_TestDataInd		
PCO Type : DSAP		
Comments : To indicate the reception of unstructured data using acknowledged mode in the uplink direction		
Parameter Name	Parameter Type	Comments
cellId	INTEGER	RB identity (RB3 or RB4)
rB_Id	SS_RB_Identity	
data	PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : RLC_AM_TestDataReq		
PCO Type : DSAP		
Comments : To request the transmission of unstructured data using acknowledged mode in the downlink direction		
Parameter Name	Parameter Type	Comments
cellId	INTEGER	RB identity (RB3 or RB4)
rB_Id	SS_RB_Identity	
data	PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : RLC_TR_TestDataInd		
PCO Type : DSAP		
Comments : To indicate the reception of unstructured data using transparent mode in the uplink direction		
Parameter Name	Parameter Type	Comments
cellId	INTEGER	RB identity (RB3 or RB4)
rB_Id	SS_RB_Identity	
data	PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : RLC_TR_TestDataReq		
PCO Type : DSAP		
Comments : To request the transmission of unstructured data using transparent mode in the downlink direction. TTCN writer is requires to send data according to the transport block size allowed.		
Parameter Name	Parameter Type	Comments
cellId	INTEGER	RB identity (RB3 or RB4)
rB_Id	SS_RB_Identity	
data	PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : RRC_DataInd (RRC-DATA-IND) PCO Type : Dc_SAP Comments : The ASP is used to indicate the receipt of the NAS PDU message using acknowledged operation (NAS <- RRC).		
Parameter Name	Parameter Type	Comments
cellId	INTEGER	Cell Id
rB_Id	SS_RB_Identity	RB identity (RB3 or RB4)
ch	LogicChGERAN	Logical channel (used for interworking with GERAN)
sapId	SapId	RRC SAP identifier (SAP0)
cN_Domain	SS_CN_DomainIdentity	CN domain identity
start	START_Value	Mandatory in INITIAL DIRECT TRANSFER
msg	PDU	NAS PDU
Detailed Comments :		

ASP Type Definition		
ASP Name : RRC_DataReq PCO Type : Dc_SAP Comments : The ASP is used to request the transmission of the NAS PDU message using acknowledged operation (NAS -> RRC).		
Parameter Name	Parameter Type	Comments
cellId	INTEGER	
rB_Id	SS_RB_Identity	RB identity (RB3 or RB4)
ch	LogicChGERAN	Logical channel (used for interworking with GERAN)
sapId	SapId	RRC SAP identifier (SAP0)
cN_Domain	SS_CN_DomainIdentity	CN domain identity
msg	PDU	NAS PDU
Detailed Comments :		

ASN.1 ASP Type Definition	
ASP Name : CRLC_SetRRC_MessageSN_REQ PCO Type : CSAP Comments : To request the SS to set the RRC message sequence number in COUNT-I to the value specified in this ASP. The ASP is used to initialise SS RRC	
Type Definition	
SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, count_I_LSB_UL RRC_SequenceNumber OPTIONAL, count_I_LSB_DL RRC_SequenceNumber OPTIONAL } 	
Detailed Comments :	

ASN.1 ASP Type Definition	
ASP Name : CRLC_SetRRC_MessageSN_CNF PCO Type : CSAP Comments : To confirm the RRC message sequence number setting request	
Type Definition	
SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo } 	
Detailed Comments :	

ASN.1 ASP Type Definition
ASP Name : CRLC_RRC_MessageSN_REQ PCO Type : CSAP Comments : To request the SS to return the values in COUNT-I for sending the next DL RRC message or for receiving the next UL RRC message on the concerned SRB.
Type Definition
SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_RRC_MessageSN_CNF PCO Type : CSAP Comments : To return the counter I value (HFN and RRC message sequence number) for sending the next DL RRC message or for receiving the next UL RRC message on the concerned SRB. COUNT_I_MSB is the 28 MSB of the COUNT-I (HFN)
Type Definition
SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, count_I_MSB_UL COUNT_I_MSB, count_I_LSB_UL RRC_SequenceNumber, count_I_MSB_DL COUNT_I_MSB, count_I_LSB_DL RRC_SequenceNumber }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_Ciphering_Activate_CNF PCO Type : CSAP Comments : To confirm to activate or inactivate the ciphering
Type Definition
SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_Ciphering_Activate_REQ PCO Type : CSAP Comments : To request to start or, restart or stop downlink ciphering or uplink deciphering. The physicalChannelIdentity of DPCH applies to routingInfo.Do not increment HFN part of COUNT-C if the value of incrementCOUNT_C_Ind is "NotIncr".
Type Definition
<pre>SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, ratType RatType, cn_DomainIdentity CN_DomainIdentity, cipheringModelInfo CipheringModelInfo, incHFN Increment_Mode }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_Config_CNF PCO Type : CSAP Comments : For MAC emulator to report that a previous attempt to setup, reconfigure or release a logical channel is successful.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_Config_REQ PCO Type : CSAP Comments : To request to configure MAC entity. Setup is used for creation of the MAC instances or the MAC resources. Release is used for free the all MAC resources. The reconfiguration is to change the MAC parameters, it is not the MAC modification.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, ratType RatType, configMessage CHOICE { setup CmacConfigReq, reconfigure CmacConfigReq, release NULL } }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_PAGING_Config_CNF PCO Type : CSAP Comments : To confirm to setup the Paging message
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_PAGING_Config_REQ PCO Type : CSAP Comments : To request MAC layer to send the Paging message on the specified configuration.
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo, ratType RatType, configMessage CmacPagingConfigReq }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_Restriction_CNF PCO Type : CSAP Comments : For MAC emulator to report that a previous attempt of restricting TFCs have been successful.
Type Definition
<pre>SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_Restriction_REQ PCO Type : CSAP Comments : To request to configure MAC entity. The field restrictAllowedTFCs is provided to allow the UL and/or DL SS TFCs to be restricted for a specific transport channel. This information only needs to be sent to the MAC layer, since it is the MAC layer's responsibility to determine the set of valid TFCs each TTI.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, ratType RatType, restrictAllowedTFCs TFC_Restriction }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_SYSINFO_Config_CNF PCO Type : CSAP Comments : To confirm to setup the BCCH message to MAC layer
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_SYSINFO_Config_REQ PCO Type : CSAP Comments : To request MAC layer to send the BCCH message on the specified configuration.
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo, ratType RatType, configMessage CmacSysinfoConfigReq }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_SecurityMode_Config_CNF PCO Type : CSAP Comments : To confirm to configure the MAC security mode
Type Definition
SEQUENCE { cellId INTEGER (–1..63) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_SecurityMode_Config_REQ PCO Type : CSAP Comments : To request to configure the MAC security mode If there are several CMAC_Ciphering_Activate_REQ follow this ASP, the SS shall take a serial of specified actions on the same contents in this ASP at the activation time indicated in each CMAC_Ciphering_Activate_REQ.
Type Definition
SEQUENCE { cellId INTEGER (–1..63), macCipheringInfo SecurityInfo }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Cell_Config_CNF PCO Type : CSAP Comments : To confirm to setup the cell parameter
Type Definition
SEQUENCE { cellId INTEGER (0..63) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Cell_Config_REQ PCO Type : CSAP Comments : To request to setup the cell parameter. The unit of tcell is chip; the unit of sfnOffset is frame number; the primary scrambling code number of the cell is 16*primaryScramblingCode_SS; the unit of dLTxAttenuationLevel is dB.
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), tcell INTEGER(0..38399), sfnOffset INTEGER (0 .. 4095), frequencyInfo FrequencyInfo, primaryScramblingCode_SS INTEGER (0..511), cellTxPowerLevel CellTxPowerLevel, dLTxAttenuationLevel INTEGER(0..30) }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Cell_Release_CNF PCO Type : CSAP Comments : The confirmation to the CPHY_Cell_Release_Req
Type Definition
<pre>SEQUENCE { soft_Reset BOOLEAN, cell_ID_List SEQUENCE (SIZE (1..8)) OF INTEGER(0..63) -- cell IDs }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Cell_Release_REQ PCO Type : CSAP Comments : 1. This Primitive with "Soft_Reset" flag ON gives a common known starting point/state of SS for a test case. The SS performs the following whenever it receives this primitive with "Soft_Reset" flag ON:Releases all configured Channels and cells (if any) irrespective of Cell ID list IE. 2. Releases the associated Memory Buffers (if any). 3. Cancels all active timers (if any) With "Soft_Reset" flag OFF: 1. Releases cells listed in IE Cell_ID_List and associated configured Channels (if any) 2. Releases the Memory Buffers(if any) associated with Cells listed in IE Cell_ID_List 3. Cancels all active timers (if any) associated with Cells listed in IE Cell_ID_List.
Type Definition
<pre>SEQUENCE { soft_Reset BOOLEAN, cell_ID_List SEQUENCE (SIZE (1..8)) OF INTEGER(0..63) -- cell IDs }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Cell_TxPower_Modify_CNF PCO Type : CSAP Comments : To confirm to change the DL power
Type Definition
SEQUENCE { cellId INTEGER (0..63) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Cell_TxPower_Modify_REQ PCO Type : CSAP Comments : To request to change the DL power
Type Definition
SEQUENCE { cellId INTEGER (0..63), dLTxAttenuationLevel INTEGER(0..40|123) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Frame_Number_CNF PCO Type : CSAP Comments : To return the requested connection frame number. The routingInfo indicates a physical channel.
Type Definition
SEQUENCE{ cellId INTEGER(0..63), routingInfo RoutingInfo, frameNumber INTEGER (0..255) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Frame_Number_REQ PCO Type : CSAP Comments : To request the physical layer to return a connection frame number on which the next message can be sent at the specified PCO on the specified logical channel. The return frame number shall leave time from current frame number in order to leave some execution time for TTCN preparing next message. The routingInfo indicates a physical channel
Type Definition
<pre>SEQUENCE{ cellId INTEGER(0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Ini_CNF PCO Type : CSAP Comments : Confirm the test initialisation
Type Definition
<pre>SEQUENCE { confirmation NULL }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Ini_REQ PCO Type : CSAP Comments : Request to initialise the test
Type Definition
<pre>ENUMERATED { defaultRadioEnvironment(0), nonDefaultMultiCell(1) }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Out_of_Sync_IND PCO Type : CSAP Comments : To report that the physical channel synchronization (in FDD mode, sync with uplink DPCCH) was lost as detected by the SS receiver.
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_RL_Modify_CNF PCO Type : CSAP Comments : To confirm to modify the Radio Link
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_RL_Modify_REQ PCO Type : CSAP Comments : To request to modify the Radio Link HardHandover (PhysicalChannelReconfig) ChannelisationCodeChange FrequencyChange PhysicalChannelModifyForTrCHReconfig CompressedMode(PhysicalChannelReconfig) Re_Synchronized HardHandover SoftHandover
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo, ratType RatType, modifyMessage CphyRIModifyReq }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_RL_Release_CNF PCO Type : CSAP Comments : PHY emulator confirms that a specified physical channel has been released.
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_RL_Release_REQ PCO Type : CSAP Comments : To request to release the Radio Link
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_RL_Setup_CNF PCO Type : CSAP Comments : To confirm to setup the Radio Link
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_RL_Setup_REQ PCO Type : CSAP Comments : To request to setup the associated transport channels and the Radio Link itself.
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo, ratType RatType, setupMessage CphyRISetupReq }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_Sync_IND PCO Type : CSAP Comments : To indicate that physical channel synchronization (in FDD mode, sync with DPCCH) has been achieved.
Type Definition
<pre>SEQUENCE{ cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_TrCH_Config_CNF PCO Type : CSAP Comments : To confirm to configure the transport channel
Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_TrCH_Config_REQ PCO Type : CSAP Comments : To request to configure the transport channel
Type Definition
<pre>SEQUENCE { cellId INTEGER(0..63), routingInfo RoutingInfo, ratType RatType, trchConfigType TrChConfigType, configMessage CphyTrchConfigReq }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_TrCH_Release_CNF PCO Type : CSAP Comments : To confirm to release tthe Radio Link
Type Definition
SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_TrCH_Release_REQ PCO Type : CSAP Comments : To request to release tthe Radio Link
Type Definition
SEQUENCE { cellId INTEGER (0..63), routingInfo RoutingInfo, trchConfigType TrChConfigType }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Ciphering_Activate_CNF PCO Type : CSAP Comments : To confirm to activate or inactivate the ciphering
Type Definition
SEQUENCE { cellId INTEGER (-1..63)}
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Ciphering_Activate_REQ PCO Type : CSAP Comments : To request to start, restart or stop downlink ciphering or uplink deciphering. The RB-identity applied to routingInfo indicates the SRB being not suspended during the execution of the ciphering mode command. Each call of the ASP includes one RLC SN in rb_DL_CiphActivationTimeInfo for the corresponding rb-identity.
Type Definition
SEQUENCE { cellId INTEGER (-1..63), ratType RatType, cn_DomainIdentity CN_DomainIdentity, ciphActivationInfo CiphActivationInfo, incHFN RLC_IncMode }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Config_CNF PCO Type : CSAP Comments : For RLC emulator to confirm that a previous attempt to establish, reconfigure or release a radio bearer has been successful
Type Definition
SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Config_REQ PCO Type : CSAP Comments : To request to setup, reconfigure or release RLC entity
Type Definition
SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, ratType RatType, configMessage CrlcConfigReq }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Integrity_Activate_CNF PCO Type : CSAP Comments : To confirm to activate or inactivate the integrity protection
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63) }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Integrity_Activate_REQ PCO Type : CSAP Comments : To request to start or to modify the downlink or uplink integrity protection. The ASP shall be called before the sending of SECURITY MODE COMMAND. It activates the integrity on all SRBs in DL. The ASP shall not be called if the integrity shall be switched off in the test case.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), cn_DomainIdentity CN_DomainIdentity, integrityActivationInfo IntegrityActivationInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Integrity_Failure_IND PCO Type : CSAP Comments : RLC emulator reports the occurrences of a failure in integrity protection, i.e. reception of an integrity-protected RLC AM/UM SDU containing a non-matching X-MAC value compared to the desired.
Type Definition
<pre>SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, failureCause ENUMERATED { codeNotMatched(0) } }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Resume_CNF PCO Type : CSAP Comments : To confirm the resume request
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Resume_REQ PCO Type : CSAP Comments :
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_SecurityMode_Config_CNF PCO Type : CSAP Comments : To confirm to configure the ciphering
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63) }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_SecurityMode_Config_REQ PCO Type : CSAP Comments : To request to configure the RLC security mode If several subsequent CRLC_Integrity_Activate_REQ or CRLC_Ciphering_Activate_REQ follow this ASP, the SS shall take a serial of specified actions on the same contents in this ASP at the activation time indicated in each CRLC_ Integrity (or Ciphering)_Activate_REQ.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), rlcSecurityInfo SecurityInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_SequenceNumber_CNF PCO Type : CSAP Comments : To return the requested counter sequence number to which the next DL PDU to be sent or the expected UL PDU to be received.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, count_C_MSB_UL COUNT_C_MSB , count_C_LSB_UL RLC_SequenceNumber, count_C_MSB_DL COUNT_C_MSB , count_C_LSB_DL RLC_SequenceNumber }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_SequenceNumber_REQ PCO Type : CSAP Comments : To request the RLC layer to return current counter sequence numbers to which the next DL PDU to be sent or the expected UL PDU to be received.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Suspend_CNF PCO Type : CSAP Comments : To confirm the suspension of data transmission. The parameter vt indicates either the value of the Send State Variable VT(S) for AM, or the value of Data State Variable VT(US) for UM.
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, vt RLC_SequenceNumber }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_Suspend_REQ PCO Type : CSAP Comments : To request the suspension of data transmission. The parameter n indicates that an RLC entity will not send a PDU with "Sequence Number" >= VT(S)+N for AM and "Sequence Number" >= VT(US)+N for UM, where N is a non-negative integer
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, n RLC_SequenceNumber }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_AM_DATA_CNF PCO Type : DSAP Comments :
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, mui Mui }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_AM_DATA_IND PCO Type : DSAP Comments : To indicate to receive DATA using acknowledged mode
Type Definition
<pre>SEQUENCE { cellId INTEGER (-1..63), routingInfo RoutingInfo, integrityResult IntegrityResult , aM_message CHOICE { uL_DCCH_Message UL_DCCH_Message, uL_CCCH_Message UL_CCCH_Message, uL_SHCCH_Message UL_SHCCH_Message } }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_AM_DATA_REQ PCO Type : DSAP Comments : To request to transmit DATA using acknowledged mode
Type Definition
<pre> SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, confirmationRequest AmConfirmationRequest, aM_message CHOICE { dL_DCCH_Message DL_DCCH_Message, dL_CCCH_Message DL_CCCH_Message, pCCH_Message PCCH_Message, dL_SHCCH_Message DL_SHCCH_Message, bCCH_FACH_Message BCCH_FACH_Message, bCCH_BCH_Message BCCH_BCH_Message, invalid_dL_DCCH_Message Invalid_DL_DCCH_Message, invalid_dL_CCCH_Message Invalid_DL_CCCH_Message, invalid_dL_SHCCH_Message Invalid_DL_SHCCH_Message } } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_TR_DATA_IND PCO Type : DSAP Comments : To indicate to receive DATA using transparent mode
Type Definition
<pre> SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, tM_message CHOICE { uL_DCCH_Message UL_DCCH_Message, uL_CCCH_Message UL_CCCH_Message, uL_SHCCH_Message UL_SHCCH_Message } } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_TR_DATA_REQ PCO Type : DSAP Comments : To request to transmit DATA using transparent mode
Type Definition
<pre> SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, tM_message CHOICE { dL_DCCH_Message DL_DCCH_Message, dL_CCCH_Message DL_CCCH_Message, pCCH_Message PCCH_Message, dL_SHCCH_Message DL_SHCCH_Message, bCCH_FACH_Message BCCH_FACH_Message, bCCH_BCH_Message BCCH_BCH_Message, invalid_dL_DCCH_Message Invalid_DL_DCCH_Message, invalid_dL_CCCH_Message Invalid_DL_CCCH_Message, invalid_dL_SHCCH_Message Invalid_DL_SHCCH_Message } } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_UM_DATA_IND PCO Type : DSAP Comments : To indicate to receive DATA using unacknowledged mode
Type Definition
<pre> SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, integrityResult IntegrityResult, uM_message CHOICE { uL_DCCH_Message UL_DCCH_Message, uL_CCCH_Message UL_CCCH_Message, uL_SHCCH_Message UL_SHCCH_Message } } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : RLC_UM_DATA_REQ PCO Type : DSAP Comments : To request to transmit DATA using unacknowledged mode
Type Definition
<pre> SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, uM_message CHOICE { dL_DCCH_Message DL_DCCH_Message, dL_CCCH_Message DL_CCCH_Message, pCCH_Message PCCH_Message, dL_SHCCH_Message DL_SHCCH_Message, bCCH_FACH_Message BCCH_FACH_Message, bCCH_BCH_Message BCCH_BCH_Message, invalid_dL_DCCH_Message Invalid_DL_DCCH_Message, invalid_dL_CCCH_Message Invalid_DL_CCCH_Message, invalid_dL_SHCCH_Message Invalid_DL_SHCCH_Message }, specialLI BOOLEAN } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DPCCH_AckNack_CNF PCO Type : CSAP Comments : Applicable Rel-5 or later To Confirm CPHY_HS_DPCCH_AckNack_REQ
Type Definition
<pre> SEQUENCE{ cellId INTEGER(0..63) } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DPCCH_AckNack_REQ PCO Type : CSAP Comments : Applicable Rel-5 or later To request for Start or Stop of reporting Ack/Nack received on the HS-DPCCH for the HARQ process hARQProcessId. At the SS initialisation reporting of Ack/Nack is in "STOP" state
Type Definition
<pre> SEQUENCE{ cellId INTEGER(0..63), ratType RatType, ackNackReportReq AckNackReportReq, hARQProcessId INTEGER(0..7) } </pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DPCCH_AckNack_IND PCO Type : CSAP Comments : Applicable Rel-5 or later SS reports the HARQ-ACK information received on HS_DPCCH, each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND
Type Definition
SEQUENCE { cellId INTEGER(0..63), ratType RatType, hARQ_ACKInfo ENUMERATED {ack(0), nack (1)}, hARQProcessId INTEGER(0..7) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DPCCH_CQI_CNF PCO Type : CSAP Comments : Applicable Rel-5 or later. To Confirm CPHY_HS_DPCCH_CQI_REQ
Type Definition
SEQUENCE{ cellId INTEGER(0..63) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DPCCH_CQI_REQ PCO Type : CSAP Comments : Applicable Rel-5 or later. To enable the SS to start reporting N times of the CQI value received on the HS-DPCCH. After N times the SS stops reporting. N is specified in numberOfReports. At the SS initialisation reporting of CQI values is disabled
Type Definition
SEQUENCE{ cellId INTEGER(0..63), ratType RatType, numberOfReports INTEGER(1..32) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DPCCH_CQI_IND PCO Type : CSAP Comments : Applicable Rel-5 or later. SS generates the indication when the CQI information is received on HS_DPCCH after invocation of ASP CPHY_HS_DPCCH_CQI_REQ and before the numberOfReports is reached. This ASP is used for verifying whether the UE has configured the HS-DSCH and starts reception of HS-DSCH. (TS 25.331 cl.8.6.6.34)
Type Definition
<pre>SEQUENCE { cellId INTEGER(0..63), ratType RatType, cqi INTEGER (0..30) }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DSCH_CRC_Mode_CNF PCO Type : CSAP Comments : Applicable Rel-5 or later. Confirm a previous CPHY_HS_DSCH_CRC_Mode_REQ being successful
Type Definition
<pre>SEQUENCE { cellId INTEGER(-1..63) , routingInfo RoutingInfo }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CPHY_HS_DSCH_CRC_Mode_REQ PCO Type : CSAP Comments : Applicable Rel-5 or later. To set the CRC calculation mode for HS-DSCH. If mode = normal, the SS generates the correct CRC. If mode = erroneous, the SS generates any wrong CRC value which is different from the one it shall be on the specified MACdFlow. As default, when the HS-DSCH first configured or reconfigured the SS enters the normal CRC calculation mode.
Type Definition
<pre>SEQUENCE{ cellId INTEGER(-1..63) , routingInfo RoutingInfo, mac_dFlowId MAC_d_FlowIdentity, mode ENUMERATED {normal(0), erroneous(1)} }</pre>
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_MACHs_TFRCconfigure_CNF PCO Type : CSAP Comments : Applicable Rel-5 or later. Confirm a previous CMAC_MACHs_TFRCconfigure_REQ being successful.
Type Definition
SEQUENCE { cellId INTEGER(-1..63) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_MACHs_TFRCconfigure_REQ PCO Type : CSAP Comments : Applicable Rel-5 or later. To configure the TFRC selection entity in the MAC-hs entity. channelisationCodeOffset + noOfChannelisationCodes shall not be great than 15; noOfChannelisationCodes = 0 means to delete the HS-PDSCH and HS-SCCH channels, and release all related resource. If explicit is selected, the SS shall use the values specified here for the parameters "modulationScheme", "channelisationCodeOffset", "noOfChannelisationCodes", "tbSizeIndexOnHS_SCCH", "redundancyVersion" and "hs_PDSCH_TxPower". If sS_Configured is selected, the values specified here are the ranges for "channelisationCodeOffset", "noOfChannelisationCodes", and the initial value of HS-PDSCH transmission power, the SS shall dynamically select the suitable values for the parameters "modulationScheme", "channelisationCodeOffset", "noOfChannelisationCodes", "tbSizeIndexOnHS_SCCH", "redundancyVersion" and "hs_PDSCH_TxPower" according to the CQI information reported by the UE and the UE's capability category,
Type Definition
SEQUENCE { cellId INTEGER(-1..63), tfrcConfigMode CHOICE { explicit SEQUENCE { modulationScheme ModulationScheme, channelisationCodeOffset INTEGER (1..14), noOfChannelisationCodes INTEGER (0..15), tbSizeIndexOnHS_SCCH INTEGER (0..63), minimumInterTTIinterval INTEGER (1..3), redundancyVersion INTEGER (0..7), hs_PDSCH_TxPower DL_TxPower --- default offset related to p-CPICH --- or s-CPICH }, sS_Configured SEQUENCE { channelisationCodeOffset INTEGER (1..14), noOfChannelisationCodes INTEGER (0..15), hs_PDSCH_TxPower DL_TxPower --- default offset related to p-CPICH --- or s-CPICH } } }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_MACHs_HARQprocAssign_CNF PCO Type : CSAP Comments : Applicable Rel-5 or later. Confirm a previous CMAC_MACHs_HARQprocAssign_REQ being successful.
Type Definition
SEQUENCE { cellId INTEGER(-1..63) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CMAC_MACHs_HARQprocAssign_REQ PCO Type : CSAP Comments : Applicable Rel-5 or later. To assign a HARQ process for handling next one MAC-hs PDU transmission. In normal operation a suitable HARQ process is, without TTCN intervening, selected by HARQ entity in the MAC-hs to service the MAC-hs PDU and the HARQ process identifier is set accordingly. This ASP provides TTCN the ability of selecting an HARQ process servicing the next one MAC-hs PDU which follows the ASP. After successful transmission the MAC-hs returns back to normal operation.
Type Definition
SEQUENCE { cellId INTEGER(-1..63), harqProcessId INTEGER(0..7) }
Detailed Comments :

ASN.1 ASP Type Definition
ASP Name : CRLC_SendTestDataInOneMAC_Hs_PDU_REQ PCO Type : CSAP Comments : To request of binding subsequent data sending RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the same Mac-HS PDU.. On the request, the transmission of the test data is temporarily suppressed on the radio bearers till 'numOfSDU's' are received by RLC layer on the Radio Bearer. After receiving all SDU's the RLC layer submits to MAC such that all of them are sent in one MAC-Hs PDU.
Type Definition
SEQUENCE { cellId INTEGER(-1..63), routingInfo RoutingInfo, --RB ID desired to be given numOfSDUs INTEGER -- Number of RLC SDU's }
Detailed Comments :

ASN.1 ASP Type Definition	
ASP Name :	CRLC_SendTestDataInOneMAC_Hs_PDU_CNF
PCO Type :	CSAP
Comments :	To confirm the request of binding subsequent data sending RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the same Mac-HS PDU.
Type Definition	
SEQUENCE { cellId INTEGER(–1..63), routingInfo RoutingInfo, --RB ID desired to be given result ENUMERATED{failure(0), success(1)} } 	
Detailed Comments :	

PDU Type Definition			
PDU Name : MAC_PiggyBackedSTATUS_PDU PCO Type : DSAP Encoding Rule Name : Encoding Variation : Comments : A piggybacked STATUS PDU within an AMD PDU. This type is identical to the STATUS PDU, except the D/C field is replaced with a reserved bit. Ref 3G TS 25.322 clause 9.2.1.6. If padding is required, the padding field in the PDU containing this piggy-backed STATUS PDU should be used.			
Field Name	Field Type	Field Encoding	Comments
r	BITSTRING[1]		Reserved for future extensions.
type	CtrlPDU_Type		Always tsc_PDU_TypeStatus
superFields	SuperFields		
Detailed Comments :			

PDU Type Definition			
PDU Name : MAC_AMD_PDU PCO Type : DSAP Encoding Rule Name : Encoding Variation : Comments : Acknowledged mode RLC PDU with 7 bit length indicators. Ref 3G TS 25.322 clause 9.2.1.4			
Field Name	Field Type	Field Encoding	Comments
dcField	DC_Field		1
seqNum	AM_SeqNum		2
pollingBit	PollingBit		3
headerExt	HeaderExt		4
lenInds	LenInds		5
data	AM_Data		6
piggybackedStatus	MAC_PiggyBackedSTATUS_PDU		7
padding	RLC_Padding		8
Detailed Comments : 1. Data / Control field. Always tsc_DC_AMDPDU for an AMD_PDU. 2. The sequence number for the PDU. Generally this field contains the value INT_TO_BIT(p_SN, tsc_AM_SN_Size), where p_SN is a parameter containing the current AM SN. 3. The pollingBit field may take on the values tsc_P_Poll, or tsc_P_NoPoll. 4. If the lenInds field is present, the headerExt field shall be tsc_HE_LI_AndE_Bit. Otherwise, the headerExt field shall be tsc_HE_Data. 5. The length indicator group for the PDU. If this field present, this must be indicated by the headerExt field. 6. The data field contains the data to be sent, or the data expected to be received. Usually this data is created by using either ts_GetRxAM_PRBS, or ts_GetTxAM_PRBS. 7. The piggybackedStatus field is used to transmit or receive a piggybacked STATUS PDU within an RLC PDU. It is the callers responsibility to ensure that there is an LI present indicating that the piggybacked STATUS PDU is present. 8. The padding field must be present if the size of the LI group + the data size + the optional piggybacked status PDU is less than the current PU size.			

PDU Type Definition			
PDU Name : MAC_H_PDU PCO Type : DSAP Encoding Rule Name : DirectEncoding Encoding Variation : Comments : MAC-H layer PDU. Ref 3G TS 25.321 clause 9.1.4			
Field Name	Field Type	Field Encoding	Comments
mac_h_Header	MAC_H_Header		
data1	MAC_D_PDU		1
data2	MAC_D_PDU		1
data3	MAC_D_PDU		1
data4	MAC_D_PDU		1
data5	MAC_D_PDU		1
data6	MAC_D_PDU		1
data7	MAC_D_PDU		1
data8	MAC_D_PDU		1
data9	MAC_D_PDU		1
data10	MAC_D_PDU		1
data11	MAC_D_PDU		1
data12	MAC_D_PDU		1
Padding	BITSTRING		Mac-H Padding
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.1.4 and 9.2.2. 1.The MAC-D PDU to be transmitted or received. The number of data PDU's is presently defined as 12 only, based on present requirements of for tc 7.1.5.3			

PDU Type Definition			
PDU Name : MAC_D_PDU PCO Type : DSAP Encoding Rule Name : DirectEncoding Encoding Variation : Comments : MAC-D layer PDU. Ref 3G TS 25.321 clause 9.1.2			
Field Name	Field Type	Field Encoding	Comments
tctf	TCTF		1
ueldType	UE_IdType		2
ueld	UE_Id		3
ctField	CT_Field		4
dataAM	MAC_AMD_PDU		5 Either AM or UM Data field or AM Status will be present
dataUM	MAC_UMD_PDU		Either AM or UM Data field or AM Status will be present
statusAM	RLC_STATUS_PDU		Either AM or UM Data field or AM Status will be present
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.2.1. <ol style="list-style-type: none"> 1. Target Channel Type Field. Used to indicate which logical channel data should be routed to / from when mapped to RACH / FACH. 2. UE Id type field. Used to indicate if the UE_Id field contains a 16 bit C-RNTI or a 32 bit U-RNTI. 3. UE Id field. Contains the C-RNTI or the U-RNTI of the UE that this message is to or from. 4. C/T field. Used to multiplex / demultiplex when more than 1 logical channel of a specific type is mapped to the same transport channel. 5. The RLC PDU to be transmitted or received. 			

PDU Type Definition			
PDU Name : RLC_STATUS_PDU PCO Type : DSAP Encoding Rule Name : Encoding Variation : Comments : An AMD STATUS PDU. Ref 3G TS 25.322 clause 9.2.1.5			
Field Name	Field Type	Field Encoding	Comments
dC_Field	DC_Field		1
type	CtrlPDU_Type		2
superFields	SuperFields		3
superFieldsRec	HEXSTRING		4
padding	RLC_Padding		5
Detailed Comments : 1. Always tsc_DC_ControlPDU for a STATUS PDU. 2. Always tsc_PDU_TypeStatus for a STATUS PDU. 3. The superfields expected in the STATUS PDU. 4. The superfields to be sent in the STATUS PDU. 5. Must be present to ensure that the total size of this PDU is exactly equal to the current PU size. It is the callers responsibility to ensure that the superfields are either terminated with a NO_MORE SUFI, or an ACK SUFI.			

PDU Type Definition			
PDU Name : MAC_UMD_PDU PCO Type : DSAP Encoding Rule Name : DirectEncoding Encoding Variation : Comments : Unacknowledged mode RLC PDU. Ref 3G TS 25.322 clause 9.2.1.3			
Field Name	Field Type	Field Encoding	Comments
seqNum	UM_SeqNum		1
eBit	ExtBit		2
lenInds	LenInds		3
data	MAC_UM_Data		4
padding	RLC_Padding		5
Detailed Comments : 1. The sequence number for the PDU. Generally this field contains the value INT_TO_BIT(p_SN, tsc_UM_SN_Size), where p_SN is a parameter containing the current UM SN. 2. If the lenInds field is present, the eBit field shall be tsc_E_LI_AndE_Bit. Otherwise, the eBit field shall be tsc_E_Data. 3. The length indicator group for the PDU. If this field present, this must be indicated by the eBit field. 4. The data field contains the data to be sent, or the data expected to be received. Usually this data is created by using either ts_GetRxUM_PRBS, or ts_GetTxUM_PRBS. 5. The padding field must be present if the size of the LI group + the data size is less than the current payload size.			

PDU Type Definition			
PDU Name : MODIFYPDPCONTEXTACCEPT_ul PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : Modify PDP Context Accept ue -> n 3GPP 24.008 clause, 9.5.11			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sM_ProtocolDiscriminator	ProtocolDiscriminator		protocol discriminator M BITSTRING [4]
msgType	MsgType		message type M BITSTRING [8]
protocolConfOpts	ProtoCfgOpt		Protocol configuration options O TLV OCTETSTRING [3–253]
Detailed Comments :			

PDU Type Definition			
PDU Name : MODIFYPDPCONTEXTREQUEST_dl PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : Modify PDP Context Request n -> ue 24.008 , 9.5.9			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sM_ProtocolDiscriminator	ProtocolDiscriminator		protocol discriminator M BITSTRING [4]
msgType	MsgType		message type M BITSTRING [8]
spare	B4		Spare M V BITSTRING [4]
radioPriority	RadioPriority_v		Radio priority M V BITSTRING [4]
requestedLLC_SAPI	LLC_SAPI_v		LLC service access point identifier M V BITSTRING [8]
newQoS	QualityOfService_lv		Quality of service M LV OCTETSTRING [13–15]
pDP_Addr	PktDataProtoAddr		Packet data protocol address O TLV OCTETSTRING [4–20]
pKT_FlowIdentifier	PktFlowIdentifier		Packet Flow Identifier O TLV OCTETSTRING [3]
protocolConfOpts	ProtoCfgOpt		Protocol configuration options O TLV OCTETSTRING [3–253]
Detailed Comments :			

PDU Type Definition			
PDU Name : ACTIVATEPDPCONTEXTACCEPTdl PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : Activate PDP Context Accept n -> ue Reference 3G PP 24.008 clause, 9.5.2			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sM_ProtocolDiscriminator	ProtocolDiscriminator		protocol discriminator M BITSTRING [4]
msgType	MsgType		message type M BITSTRING [8]
negotiatedLLC_SAPI	LLC_SAPI_v		LLC service access point identifier M V BITSTRING [8]
negotiatedQoS	QualityOfService_lv		Quality of service M LV OCTETSTRING [13–15]
spare	B4		Spare M V BITSTRING [4]
radioPriority	RadioPriority_v		Radio priority M V BITSTRING [4]
pDP_Address	PktDataProtoAddr		Packet data protocol address O TLV OCTETSTRING [4–20]
protocolConfOpts	ProtoCfgOpt		Protocol configuration options O TLV OCTETSTRING [3–253]
pktFlowID	PktFlowIdentifier		Packet Flow Identifier O TLV OCTETSTRING [3]
Detailed Comments :			

PDU Type Definition			
PDU Name : ROUTING_AREA_UPDATE_COMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.16 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator '1000' M BITSTRING [4]
msgType	MsgType		Message Type '0000 1010' M BITSTRING [8]
listNPDUnumbers	ReceiveN_PDU_Numbers_tl v		O, TLV 4–19 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : CHANNELRELEASE PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RR CHANNEL RELEASE ntw -> ue/ms 3GPP TS 44.018 clause 9.1.7			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	B4		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	B4		RR protocol discriminator M BITSTRING [4]
msgType	O1		message type M BITSTRING [8]
rRCau	RR_Cause		RR cause M BITSTRING [8]
bA_Range	BA_Range		BA range O OCTETSTRING minimum 6 octets no up limit
groupChannelDescr	GroupChannelDescr		group channel description O OCTETSTRING[4..13]
groupCipherKey	GroupCipherKey		group cipher key number C OCTETSTRING[1]
gPRS_Resumption	GPRS_Resumption		GPRS resumption O OCTETSTRING[1]
bA_ListPref	BA_ListPref		BA list pref O OCTETSTRING at least 3 octets no up limit
uTRAN_FreqList	UTRAN_FreqList		UTRAN frequency list O OCTETSTRING[3..
Detailed Comments :			

PDU Type Definition			
PDU Name : CHANNELREQUEST PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RR CHANNEL REQUEST ue/ms -> ntw 3GPP TS 44.08 clause 9.1.8			
Field Name	Field Type	Field Encoding	Comments
estCauRandomRef	B8		establishment cause / random reference M
Detailed Comments :			

PDU Type Definition			
PDU Name : CLASSMARKCHANGE PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RR CLASSMARK CHANGE ue/ms -> ntw 3GPP TS 44.018 clause 9.1.11			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	B4		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	B4		RR protocol discriminator M BITSTRING [4]
msgType	O1		message type M BITSTRING [8]
msclsmk	MS_Clsmk2_lv		mobile station classmark M
additionalMsclsmk	MSCLSMK3		OCTETSTRING [4] additional mobile station classmark information C OCTETSTRING [14]
Detailed Comments :			

PDU Type Definition			
PDU Name : IMMEDIATEASSIGNMENT PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR IMMEDIATE ASSIGNMENT ntw -> ue/ms 3GPP TS 44.018 clause 9.1.18			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	O1		BITSTRING [4] message type M
dedicatedModeOrTBF	DedicatedModeOrTBF		BITSTRING [8] dedicated mode or TBF M
pageMode	PageModeIE		BITSTRING [4] without IEI page mode M
chDescr	ChannelDescr		BITSTRING [4] without IEI channel description C
packetChDescr	PacketChDescr		OCTETSTRING [3] packet channel description C
reqRef	ReqRef		OCTETSTRING [3] request reference M
ta	TA		OCTETSTRING [3] timing advance M
mobileAlloc	MobileAlloc		OCTETSTRING [1] mobile allocation, M
startingTime	StartingTime		OCTETSTRING [1..9] starting time O
iaroct	IARO		OCTETSTRING [3] IA rest octets / frequency parameter, before time M
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Type Definition			
PDU Name : MEASUREMENTREPORT PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RR MEASUREMENT REPORT ue/ms -> ntw 3GPP TS 44.018 clause 9.1.21			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	B4		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	B4		RR protocol discriminator M BITSTRING [4]
msgType	O1		message type M BITSTRING [8]
measResults	MeasResults		measurement results M OCTETSTRING [16]
Detailed Comments :			

PDU Type Definition			
PDU Name : PACKETENHANCEDMEASUREMENTREPORT			
PCO Type : G_DSAP			
Encoding Rule Name : GPRSPadding_Rule1			
Encoding Variation :			
Comments : ref: 44.060 v5a0 clause 11.2.9d			
Field Name	Field Type	Field Encoding	Comments
msgType	B6		Message type
tLLI	O4		
nCMeasRep	NC_MeasRpt		
r5Mask	B1		
grntiXMask	B1		not present if r5Mask = 0
gRNTIExtension	B4		not present if r5Mask = 0 or grntiXMask = 0
Detailed Comments :			

PDU Type Definition			
PDU Name : PACKETSYSTEMINFORMATIONTYPE1 PCO Type : G_DSAP Encoding Rule Name : GPRSPadding_Rule1 Encoding Variation : Comments : SS to add padding bits to RLC block size			
Field Name	Field Type	Field Encoding	Comments
msgType	MessageType		Message type
pageMode	B2		
pBCCH_CHANGE_MARK	B3		
pSI_CHANGE_FIELD	B4		
pSI1_REPEAT_PERIOD	B4		
pSI_COUNT_LR	B6		
pSI_COUNT_HR_Mask	B1		
pSI_COUNT_HR	B4		not present if pSI_COUNT_HR_Mask = 0
MEASUREMENT_ODER	B1		
gPRS_CellOptions	GPRS_CellOptions		
pRACH_ControlParameters	PRACH_ControlParameters		
pCCCH_OrganisationParameters	PCCCH_OrganisationParameters		
globalPowerControlParameters	GlobalPowerControlParameters		
pSI_STATUS_IND	B1		
spareMask	B1		fields below are added in R99
mSCR	B1		present if spareMask = 1
sGSNR	B1		present if spareMask = 1
bandIndicator	B1		present if spareMask = 1
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.18			

PDU Type Definition			
PDU Name : PACKETSYSTEMINFORMATIONTYPE2 PCO Type : G_DSAP Encoding Rule Name : GPRSPadding_Rule1 Encoding Variation : Comments : SS to add padding bits to RLC block size			
Field Name	Field Type	Field Encoding	Comments
msgType	MessageType		Message type
pAGE_MODE	B2		
pSI2_CHANGE_MARK	B2		
pSI2_INDEX	B3		
pSI2_COUNT	B3		
cellIdentificationMask	B1		
cellIdentification	CellIdentification		not present if cellIdentificationMask = 0
nonGPRSCellOptionsMask	B1		
nonGPRSCellOptions	NonGPRSCellOptions		not present if nonGPRSCellOptionsMask = 0
referenceFreqLists	ReferenceFreqLists		
cellAllocation	CellAllocLists		
gPRS_MobileAllocations	GPRS_MobileAllocationLists		
pCCCH_Description	PCCCH_DescriptionList		
spareMask	B1		fields below are added in R99
compactControlMask	B1		not present if spareMask = 0
compactControlInfo	CompactControlInfo		not present if spareMask = 0 or compactControlMask = 0
additionalPSI_MsgMask	B1		not present if spareMask = 0
additionalPSI_Msg	AdditionalPSIMessages		not present if spareMask = 0 or additionalPSI_MsgMask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.19			

PDU Type Definition			
PDU Name : PACKETSYSTEMINFORMATIONTYPE3 PCO Type : G_DSAP Encoding Rule Name : GPRSPadding_Rule1 Encoding Variation : Comments : SS to add padding bits to RLC block size			
Field Name	Field Type	Field Encoding	Comments
msgType	MessageType		Message type
pAGE_MODE	B2		
pSI3_CHANGE_MARK	B2		
pSI3_BIS_COUNT	B4		
servingCellParameters	ServingCellParams		
generalCellSelectionParameter	GenCellSel		
neighCellParameters	NeighCellParamsList		
spareMask1	B1		fields below are add in R98
servingCell_LSA_Id_Info	LSA_ID_Info		not present if spareMask1 = 0
ISA_ParameterMask	B1		not present if spareMask1 = 0
ISA_Parameter	LSA_Param		not present if spareMask1 = 0 or ISA_ParameterMask = 0
spareMask2	B1		fields below are added in R99
spareBits	B2		not present if spareMask1 = 0 or spareMask2 = 0. Set these to 00. Earlier definitions allocated these, but not now
compactInfoMask	B1		not present if spareMask1 = 0 or spareMask2 = 0
compactInfo	CompactInfo		not present if spareMask1 = 0 or spareMask2 = 0 or compactInfoMask = 0
spareBit	B1		not present if spareMask1 = 0 or spareMask2 = 0. Set this to 0. Was allocated in earlier definition, but not now
spareMask3	B1		fields below are added in R4
cCN_SupportDescriptionMask	B1		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0
cCN_SupportDescription	CCN_SupportDescr		not present if cCN_SupportDescriptionMask = 0
spareMask4	B1		fields below are added in Release 5
cellBarQualify3	B2		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
iuModeNeighCellParams	IuModeNeighbourCellParamsList		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
iuModeOnlyNeighCellParams	IuModeOnlyNeighbourCellParamsList		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

PDU Type Definition			
PDU Name : PACKETSYSTEMINFORMATIONTYPE3bis PCO Type : G_DSAP Encoding Rule Name : GPRSPadding_Rule1 Encoding Variation : Comments : SS to add padding bits to RLC block size			
Field Name	Field Type	Field Encoding	Comments
msgType	MessageType		Message type
pAGE_MODE	B2		
pSI3_CHANGE_MARK	B2		
pSI3_BIS_INDEX	B4		
pSI3_BIS_COUNT	B4		
neighCellParameters	NeighCellParamsList		
neighCellParameters2	NeighCellParams2List		
spareMask1	B1		fields below are add in R98
ISA_ParameterMask	B1		not present if spareMask1 = 0
ISA_Parameter	LSA_Param		not present if spareMask1 = 0 or ISA_ParameterMask = 0
spareMask2	B1		fields below are added in R99
compactNeighCellParams	CompactNeighCellParams2List		not present if spareMask1 = 0 or spareMask2 = 0
spareBit	B1		not present if spareMask1 = 0 or spareMask2 = 0. Set this to 0. Was allocated in earlier definition, but not now
spareMask3	B1		fields below are added in R4
cCN_SupportDescriptionMask	B1		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0
cCN_SupportDescription	CCN_SupportDescr		not present if cCN_SupportDescriptionMask = 0
spareMask4	B1		fields below are added in R5
luModeNeighCellParams	luModeNeighbourCellParamsList		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
luModeOnlyNeighCellParams	luModeOnlyNeighbourCellParamsList		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.21			

PDU Type Definition											
PDU Name : PACKETSYSTEMINFORMATIONTYPE5											
PCO Type : G_DSAP											
Encoding Rule Name : GPRSPadding_Rule1											
Encoding Variation :											
Comments : SS to add padding bits to RLC block size											
Field Name	Field Type	Field Encoding	Comments								
msgType	MessageType		Message type								
pAGE_MODE	B2										
pSI5_CHANGE_MARK	B2										
pSI5_INDEX	B3										
pSI5_COUNT	B3										
nC_MeasMask	B1										
pSI5_NC_MeasParameter	NC_MeasParams		not present if nC_MeasMask = 0								
extMeasMask	B1										
extMeasParameter	ExtMeasParam		not present if extMeasMask = 0								
spareMask	B1		following fields are added in R99								
eNH_ReportingParamMask	B1		not present if spareMask = 0								
eNH_ReportingParam	ENH_ReportingParam		not present if eNH_ReportingParaMask = 0 or spareMask = 0								
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.23											
<p>Table 71: PSI5 information element details</p> <p>The optional PSI5 message contains broadcast measurement parameters for either Network Control (NC) measurements containing the NC Measurement Parameters, or for Extended measurements containing the EXT Measurement Parameters, or for both.</p> <p>PAGE_MODE (2 bit field)</p> <p>This field is defined in clause 12.20.</p> <p>PSI5_CHANGE_MARK (2 bit field)</p> <p>The PSI5_CHANGE_MARK field is changed each time information has been updated in any of the individual instances of the PSI5 message. A new value indicates that the mobile station shall re-read the information from all PSI5 messages. The coding of this field is network dependent.</p> <p>Range: 0 to 3.</p> <p>PSI5_INDEX (3 bit field) and PSI5_COUNT (3 bit field)</p> <p>The purpose of the PSI5_INDEX field and the PSI5_COUNT field is to indicate the number of individual messages within the sequence of PSI5 messages and to assign an index to identify each one of them. The PSI5_INDEX field is binary coded, range: 0 to 7, and provides an index to identify the individual PSI5 message. The PSI5_COUNT field is binary coded, range: 0 to 7, and provides the PSI5_INDEX value for the last (highest indexed) message in the sequence of PSI5 messages.</p> <p>NETWORK_CONTROL_ORDER (2 bit field)</p> <p>The NETWORK_CONTROL_ORDER field is coded according to the following table (for definition of NCx see GSM 05.08):</p> <table><tr><td>bit</td><td></td></tr><tr><td>2 1</td><td></td></tr><tr><td>0 0</td><td>NC0</td></tr><tr><td>0 1</td><td>NC1</td></tr></table>				bit		2 1		0 0	NC0	0 1	NC1
bit											
2 1											
0 0	NC0										
0 1	NC1										

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PDU Type Definition

Detailed Comments : ...

1 0 NC2
1 1 Reserved

If the NETWORK_CONTROL_ORDER parameter = NC0, then the other parameters in the NC Measurement parameters struct may be omitted. If the NETWORK_CONTROL_ORDER parameter indicates NC1 or NC2 and the other parameters are omitted, the default value for these parameters shall be assumed.

NC_NON_DRX_PERIOD (3 bit field)

This field indicates the minimum time the mobile station shall stay in non-DRX mode after an NC-measurement report has been sent. The field is coded according to the following table:

bit
3 2 1

0 0 0 No non-DRX mode after a measurement report has been sent (default value).
0 0 1 0,24 sec
0 1 0 0,48 sec
0 1 1 0,72 sec
1 0 0 0,96 sec
1 0 1 1,20 sec
1 1 0 1,44 sec
1 1 1 1,92 sec

NC_REPORTING_PERIOD_I (3 bit field)

NC_REPORTING_PERIOD_T (3 bit field)

These fields indicate the time period for cell reselection measurement reporting for packet idle mode (I) and packet transfer mode (T), respectively. The field is coded according to the following table:

bit
3 2 1

0 0 0 0.48 sec
0 0 1 0.96 sec
0 1 0 1.92 sec
0 1 1 3.84 sec (default value for NC_REPORTING_PERIOD_T)
1 0 0 7.68 sec
1 0 1 15.36 sec
1 1 0 30.72 sec
1 1 1 61.44 sec (default value for NC_REPORTING_PERIOD_I)

EXT_MEASUREMENT_ORDER (2 bit field)

The EXT_MEASUREMENT_ORDER field indicates to the mobile station how to interpret the rest of the extended measurement parameters. This field is coded according to the following table (for definition of EMx see 05.08):

bit
2 1

0 0 EM0
0 1 EM1
1 0 Reserved.

1 1 Reserved and shall be interpreted as EM0 by the receiver.

If the EXT_MEASUREMENT_ORDER parameter = EM0 the other parameters in the EXT Measurement parameters struct may be omitted.

NCC_PERMITTED (8 bit field)

This field is a bitmap of NCCs for which the mobile station is permitted to report measurement; this bitmap relates to NCC part of BSIC (see coding field in 04.08).

EXT_REPORTING_TYPE (2 bit field)

PDU Type Definition

Detailed Comments : ...

This field indicates the type of extended measurement reporting to which the frequencies on the list are subject. This field is coded according to the following table (see GSM 05.08):

bit

2 1

0 0 Type 1 measurement reporting

0 1 Type 2 measurement reporting

1 0 Type 3 measurement reporting

1 1 Reserved. In this version of the protocol the mobile station shall ignore the entire list containing this field.

EXT_REPORTING_PERIOD (3 bit field)

The EXT_REPORTING_PERIOD field indicates the time interval between extended measurement reports. This field is coded according to the following table:

bit

3 2 1

0 0 0 60 sec

0 0 1 120 sec

0 1 0 240 sec

0 1 1 480 sec

1 0 0 960 sec

1 0 1 1920 sec

1 1 0 3840 sec

1 1 1 7680 sec

INT_FREQUENCY (5 bit field)

This optional field indicates the frequency upon which the interference measurement shall be made. This field is an index into the EXT Frequency List. If the field is not included, no interference measurements shall be done
Range 0 to 31

EXT_FREQUENCY_LIST

Contains the EXT Frequency List description struct. The EXT Frequency Lists description struct may contain multiple

EXT frequency list struct.

START_FREQUENCY (10 bit field)

The START_FREQUENCY defines the ARFCN for the first carrier in the list (F(0)).

FREQ_DIFF_LENGTH (3 bit field)

The FREQ_DIFF_LENGTH field specifies the number of bits to be used for the Frequency diff field in the current frequency group. The field is coded according to the following table

bit

3 2 1

0 0 0 1 bit

0 0 1 2 bits

...

1 1 1 8 bits

FREQUENCY_DIFF ('Freq Diff length' bit field)

Each FREQUENCY_DIFF parameter field specifies the difference in frequency to the next carrier to be defined. The Frequency Diff parameter encodes a non negative integer in binary format (W). The length of the field is defined by the Freq Diff length parameter. Each frequency following the start frequency (ARFCN(0)) and belonging to the Frequency List struct is then calculated by the formula $ARFCN(n) = ARFCN(n-1) + W(n)$, $n=1, \dots, \text{'Nr of Frequencies'}$

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE1 PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE1 ntw -> ue/ms 3 GPP TS 44.018 clause 9.1.31			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
cellChDescr	CellChDescr		BITSTRING [8] cell channel description M
rACHControlParam	RACHControlParam		OCTETSTRING [16] rach control parameters M
sl1RO	SI1RO		OCTETSTRING [3] SI1 rest octets M
Detailed Comments : The message has an L2 pseudo length of 21 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE13 PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE13 ntw -> ue/ms 3GPP TS 44.018 clause 9.1.43a			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
si13roct	SI13RO		BITSTRING [8] SI3 rest octets M
			OCTETSTRING [20]
Detailed Comments : The message has an L2 pseudo length of 0 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE2 PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE2 ntw -> ue/ms 3GPP TS 44.018 clause 9.1.32			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M OCTETSTRING [1]
skipIndicator	B4		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	B4		RR protocol discriminator M BITSTRING [4]
msgType	B8		message type M BITSTRING [8]
neighBCCHFreqList	NeighCellDescr		bcch frequency list of neighbour cells M OCTETSTRING [16]
nCCPermitted	NCCPermitted		ncc permitted M OCTETSTRING [1]
rACHControlParam	RACHControlParam		rach control parameters M OCTETSTRING [3]
Detailed Comments : The message has an L2 pseudo length of 22 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE2bis PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE2bis ntw -> ue/ms 3GPP TS 44.018 clause 9.1.33			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
extNeighBCCHFReqList	NeighCellDescr		BITSTRING [8] extended bcch frequency list of neighbour cells M
rACHControlParam	RACHControlParam		OCTETSTRING [16] rach control parameters M
			OCTETSTRING [3]
Detailed Comments : This PDU type is used both for SYSINFO2bis. The 2bis message has an L2 pseudo length of 21 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE2quarter PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR SYSTEM INFORMATION 2quarter ntw -> ue/ms 3GPP TS 44.018 clause 9.1.34a			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
sl2quarterRO	Sl2quarterRO		BITSTRING [8] Sl2quarter rest octets
			OCTETSTRING [20]
Detailed Comments : The 2ter message has an L2 pseudo length of 1 octet and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE3 PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE3 ntw -> ue/ms 3GPP TS 44.018 clause 9.1.35			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M OCTETSTRING [1]
skipIndicator	B4		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	B4		RR protocol discriminator M BITSTRING [4]
msgType	B8		message type M BITSTRING [8]
cellId	O2		cell identity M OCTETSTRING [2]
lai	LocAreaId_v		location area identification M OCTETSTRING [5]
controlChDescr	ControlChDescr		control channel description M OCTETSTRING [3]
cellOption	CellOptionBCCH		cell options/BCCH M OCTETSTRING[1]
cellSelParam	CellSelParam		cell selection parameters M OCTETSTRING [2]
rACHControlParam	RACHControlParam		rach control parameters M OCTETSTRING [3]
sl3RO	Sl3RO		Sl3 rest octets M OCTETSTRING [4]
Detailed Comments : The message has an L2 pseudo length of 18 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE4 PCO Type : G_DSAP Encoding Rule Name : GSMSparePadding_Rule2 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE4 ntw -> ue/ms 3GPP TS 44.018 clause 9.1.36			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
lai	LocAreaId_v		BITSTRING [8] location area identification M
cellSelParam	CellSelParam		OCTETSTRING [5] cell selection parameters M
rACHControlParam	RACHControlParam		OCTETSTRING [2] rach control parameters M
cbchd	ChannelDescr		OCTETSTRING [3] cbch channel description O
cbchmobileAlloc	MobileAlloc		OCTETSTRING [4] mobile allocation C
si4roct	SI4RO		OCTETSTRING [3..6] SI4 rest octets M
			OCTETSTRING [0..10]
Detailed Comments : The message has a total length of 23 octets. the L2 pseudo length is the sum of all information elements except SI 4 Rest Octets and L2 pseudo length			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE5 PCO Type : G_DSAP Encoding Rule Name : SACCHSysInfoSparePadding_Rule4 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE5 ntw -> ue/ms 3GPP TS 44.018 clause 9.1.37			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
bCCHFreqList	NeighCellDescr		BITSTRING [8] bcch frequency list M
			OCTETSTRING [16]
Detailed Comments : The message has an L2 pseudo length of 18 octets			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE5bis PCO Type : G_DSAP Encoding Rule Name : SACCHSysInfoSparePadding_Rule4 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE5bis ntw -> ue/ms 3GPP TS 44.018 clause 9.1.38			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
extNeighBCCHFreqList	NeighCellDescr		BITSTRING [8] extended bcch frequency list of neighbour cells M
			OCTETSTRING [16]
Detailed Comments :			

PDU Type Definition			
PDU Name : SYSTEMINFORMATIONTYPE6 PCO Type : G_DSAP Encoding Rule Name : SACCHSysInfoSparePadding_Rule4 Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE6 ntw -> ue/ms 3GPP TS 44.018, 9.1.40			
Field Name	Field Type	Field Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M
skipIndicator	B4		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	B8		BITSTRING [4] message type M
ci	O2		BITSTRING [8] cell identity M
lai	LocAreaId_v		OCTETSTRING [2] location area identification M
co	CellOptionSACCH		OCTETSTRING [5] cell options /SACCH M ,
nCCPermitted	NCCPermitted		OCTETSTRING [1] ncc permitted M
si6roct	SI6RO		OCTETSTRING [1] SI6 Rest Octets
			OCTETSTRING [7]
Detailed Comments : The message has an L2 pseudo length of 11 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : UTRANCLASSMARKCHANGE PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RR UTRAN CLASSMARK CHANGE ue/ms -> ntw 3GPP TS 44.018 clause 9.1.11a			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	B4		skip indicator M
rRProtocolDiscriminator	B4		BITSTRING [4] RR protocol discriminator M
msgType	O1		BITSTRING [4] message type M
uTRANPreConfigInfo	UTRANPreConfigInfo		BITSTRING [8] UTRAN predefined configuration status information M
			OCTETSTRING [2..n]
Detailed Comments :			

PDU Type Definition			
PDU Name : PACKETDOWNLINKASSIGNMENT PCO Type : G_DSAP Encoding Rule Name : GPRSPadding_Rule1 Encoding Variation : Comments : This message is sent on the PCCCH or PACCH by the network to the mobile station to assign downlink resources. TS 3GPP 44.060 clause 11.2.7 SS to add padding bits to RLC block size			
Field Name	Field Type	Field Encoding	Comments
msgType	B6		Message type
pAGE_MODE	B2		Normal paging
persistenceLevelMask	B1		
persistenceLevel1	B4		not Present if persistenceLevelMask=0
persistenceLevel2	B4		not Present if persistenceLevelMask=0
persistenceLevel3	B4		not Present if persistenceLevelMask=0
persistenceLevel4	B4		not Present if persistenceLevelMask=0
globalTFImask	B1		
gLOBAL_TFI	GlobalTFI		not present if globalTFImask=1
mask2	B1		not present if globalTFImask=0
tLLI	OCTETSTRING[4]		not present if globalTFImask=0 and mask2=1
spareBit1	B1		set to '0'B
mACMode	B2		
rLCMode	B1		
controlAck	B1		
timeslotAllocation	B8		
pktTimingAdvance	PacketTimingAdvance		
mask1	B1		
p0	B4		not present if mask1 = 0
spareBit2	B1		not present if mask1 = 0. set to '0'B if present
pRMode	B1		not present if mask1 = 0
freqParamMask	B1		
freqParams	FreqParam		not present if freqParamMask = 0
tfiMask	B1		
dITFIAssignment	B5		not present if tfiMask = 0
pcMask	B1		
powerCtrlParams	PowerControlParam		not present if pcMask = 0
startTimeMask	B1		
tbfStartTime	StartingFrameNumberDscr		not present if startTimeMask = 0
spareBit3	B1		set to '0'B
r99Mask	B1		
egprsMask	B1		not present if r99mask = 0

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
egprsWindowSize	EGPRSWindowSize		not present if r99mask = 0 or if egprsMask=0
linkQualMeasMode	B2		not present if r99mask = 0 or if egprsMask=0
bepMask	B1		not present if r99mask = 0 or if egprsMask=0
bepPeriod2	B4		not present if r99mask = 0 or if egprsMask=0 or if bepMask=0
pktXTAMask	B1		not present if r99mask = 0
pktExtendedTA	B2		not present if r99mask = 0 or if pktXTAMask=0
compactMask	B1		not present if r99mask = 0
compactReducedMA	CompactReducedMA		not present if r99mask = 0 or if compactMask=0
r5Mask	B1		not present if r99mask = 0
rBldMask	B1		not present if r99mask = 0 or if r5Mask=0
rBld	B5		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
grntiXMask	B1		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
gRNTIExtension	B4		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0 or if grntiXMask=0
ulCtrlMask	B1		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
ulCtrlTimeslot	B3		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0 or if ulCtrlMask=0
hfnMask	B1		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
hfnLSB	B1		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0 or if hfnMask=0
Detailed Comments :			

PDU Type Definition			
PDU Name : PACKETCONTROLACKNOWLEDGEMENT PCO Type : G_DSAP Encoding Rule Name : Encoding Variation : Comments : RLC/MAC Control Block format			
Field Name	Field Type	Field Encoding	Comments
msgType	MessageType		Message type
tLLI	OCTETSTRING[4]		
ctrlAck	B2		
mask	B1		
rBPMask	B1		not present if mask=0
tn_RRBP	B3		not present if mask=0 or if rBPMask=0
gRNTIMask	B1		not present if mask=0
gRNTIExt	B4		not present if mask=0 or if gRNTIMask=0
paddingBits	BITSTRING		
Detailed Comments :			

PDU Type Definition			
PDU Name : AUTHENTICATION_AND_CIPHERING_FAILURE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.10a (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		'0001 1100'B M BITSTRING [8]
gmmCause	RejCau		M 1 octet
authFailurePar	AuthenticationFailureParameter		O TLV, 16 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : ACTIVATEPDPCONTEXTREQUESTul PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : Activate PDP Context Request ue -> n 3GPP 24.008 clause, 9.5.1			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sM_ProtocolDiscriminator	ProtocolDiscriminator		protocol discriminator M BITSTRING [4]
msgType	MsgType		message type M BITSTRING [8]
requestedNSAPI	NSAPI_v		Network service access point identifier M V BITSTRING [8]
requestedLLC_SAPI	LLC_SAPI_v		LLC service access point identifier M V BITSTRING [8]
requestedQoS	QualityOfService_lv		Quality of service M LV OCTETSTRING [13–15]
pDP_Address	PktDataProtoAddr_lv		Packet data protocol address M LV OCTETSTRING [3–19]
accessPtName	AccessPtName		Access point name O TLV OCTETSTRING [3–102]
protocolConfOpts	ProtoCfgOpt		Protocol configuration options O TLV OCTETSTRING [3–253]
Detailed Comments :			

PDU Type Definition			
PDU Name : ACTIVATERBTESTMODE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : ACTIVATE RB TEST MODE n -> ue 3G TS 34.109 V3.0.0 cl. 6.6			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : ACTIVATERBTESTMODECOMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : ACTIVATE RB TEST MODE COMPLETE ue -> n 3G TS 34.109 V3.0.0 cl. 6.7			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : ATTACHACCEPT PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.2 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
forceToStandby	ForceToStandby		M 1/2 octet
attachResult	AttachResult		M 1/2 octet
periodicRAupdateTimer	GPRS_Timer_v		M 1 octet
radioPrioTOM8	RadioPriority2_v		M 1/2 octet
radioPrioSMS	RadioPriority_v		M 1/2 octet
rai	RAI_v		Routing Area Identification M 6 octets
ptmsiSignature	PTMSI_Signature		O 4 octets
negReadyTimer	GPRS_Timer		O 2 octets
allocatedPTMSI	GMM_MS_IdentityPTMSI		O 7 octets
msIdentity	GMM_MS_Identity		O 7–10 octets
gmmCause	GMM_Cause		O 2 octets
t3302Value	GPRS_Timer2		O TLV 3 octets
cellNotification	CellNotification		O 1 octet
equivalentPLMN	PLMN_List		O 5–17 octets
ntwFeatureSupport	NtwFeatureSupport_tv		O TV 1 octet
emergNumList	EmergNumList		O TLV 5–50 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : ATTACHCOMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.3 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		'0000 0011'B M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : ATTACHREJECT PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.4 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator '1000' M BITSTRING [4]
msgType	MsgType		Message Type '0000 0100' M BITSTRING [8]
gmmCause	RejCau		M 1 octet
t3302Value	GPRS_Timer2		O, TLV 3 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : ATTACHREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.1 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator '1000' M BITSTRING [4]
msgType	MsgType		Message Type '0000 0001' M BITSTRING [8]
msNetworkCap	MS_NetworkCap_lv		MS network capability M 3–9 octets
gprsCiphKeySeqNo	CiphKeySeqNum		Ciphering key sequence number M BITSTRING[4]
attachType	AttachType		Attach Type M BITSTRING [4]
drxParameter	DRXparamter		M 2 octets
ptmsiORimsi	MS_Identity_lv		Mobile Identity M 6–9 octets
oldRAI	RAI_v		Routing Area Identification M 6 octets
msRadioAccessCap	MSRadioAccessCap_lv		M 6–52 octets
oldPTMSI_Signature	PTMSI_Signature		O 4 octets
readyTimer	GPRS_Timer		O 2 octets
tmsiStatus	TMSI_Status		O 1 octet
pS_LCS_Capability	PS_LCS_Capability		O TLV 3 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : AUTHENTICATIONANDCIPHERINGREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.9 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		'0001 0010'B M BITSTRING [8]
imeisvReq	IMEISVRequest		M BITSTRING[4]
ciphAlgorithm	CiphAlgorithm		Ciphering algorithm M BITSTRING[4]
acRefNo	AC_ReferenceNumber		M BITSTRING [4]
forceToStandby	ForceToStandby		M BITSTRING [4]
authRand	AuthenticationParamterRAND		O, TV 17 octets
gprsCiphKeySeqNo	CiphKeySeqNum_tv		Ciphering key sequence number O, TV, 1
aUTN	GMM_AUTN		Auth. parameter AUTN O, TLV, 18 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : AUTHENTICATIONANDCIPHERINGRESPONSE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.10 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		'0001 0011'B M BITSTRING [8]
spare4	B4		
acRefNo	AC_ReferenceNumber		M BITSTRING [4]
authRsp	AuthRsp_tv		O, TV 5 octets
imei5v	GMM_MS_Identity		O TLV, 11 octets
authRspExt	AuthRspExt		O TLV, 3–14 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : AUTHENTICATIONFAILURE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM AUTHENTICATION FAILURE ue -> n 3G TS 24.008 V3.4.0 cl. 9.2.3a			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
rejCau	RejCau		Reject Cause M BITSTRING [8]
authFailParam	AuthenticationFailureParameter		Authentication Failure Paramter O AuthFail (128 bits)
Detailed Comments : (1) (see 3G TS 24.008 cl. 10.4) In messages sent from the MS, for core network nodes earlier than R99: bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number; for core network nodes of R99 or later: bits 7 and 8 are reserved for the send sequence number.			

PDU Type Definition			
PDU Name : AUTHENTICATIONREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM AUTHENTICATION REQUEST n -> ms 3G TS 24.008 V3.4.0 cl. 9.2.2			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
spare4	B4		Spare half octet M BITSTRING [4]
ciphKeySeqNum	CiphKeySeqNum		Ciphering Key Sequence Number M BITSTRING [4]
rAND	MM_RAND		Auth. parameter RAND M BITSTRING [128]
aUTN	AUTN		Auth. parameter AUTN O AUTN
Detailed Comments : (1) In messages sent from the network bits 7 and 8 are "0" (see 3G TS 24.008 cl. 10.4) .			

PDU Type Definition			
PDU Name : AUTHENTICATIONRESPONSE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM AUTHENTICATION RESPONSE ue -> n 3G TS 24.008 V3.4.0 cl. 9.2.2			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
authRsp	AuthRsp		Authentication Response M OCTETSTRING [4]
authRspExt	AuthRspExt		Authentication Response Extension O AuthRspExt (3–14 octets)
Detailed Comments : (1) (see 3G TS 24.008 cl. 10.4) In messages sent from the MS, for core network nodes earlier than R99: bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number; for core network nodes of R99 or later: bits 7 and 8 are reserved for the send sequence number.			

PDU Type Definition			
PDU Name : CLOSEUETESTLOOP PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : CLOSE UE TEST LOOP n -> ue 3G TS 34.109 V3.0.0 cl. 6.2			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
uE_TestLoopMode	UE_TestLoopMode		UE test loop mode M UE_TestLoopMode
uE_TestLoopMode1LB_Setup	UE_TestLoopMode1LB_Setup		UE test loop mode 1 LB setup C UE_TestLoopMode1LB_Setup
Detailed Comments :			

PDU Type Definition			
PDU Name : CLOSEUETESTLOOPCOMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : CLOSE UE TEST LOOP ue -> n 3G TS 34.109 V3.0.0 cl. 6.3			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : DEACTIVATEPDPCONTEXTACCEPT PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : Deactivate PDP Context Accept n <=> ue 3GPP 24.008 , 9.5.15			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sM_ProtocolDiscriminator	ProtocolDiscriminator		protocol discriminator M BITSTRING [4]
msgType	MsgType		message type M BITSTRING [8]
protocolConfOpts	ProtoCfgOpt		Protocol configuration options O TLV OCTETSTRING [3–253]
Detailed Comments :			

PDU Type Definition			
PDU Name : DEACTIVATEPDPCONTEXTREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : Deactivate PDP Context Request n <=> ue 24.008, 9.5.14			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sM_ProtocolDiscriminator	ProtocolDiscriminator		protocol discriminator M BITSTRING [4]
msgType	MsgType		message type M BITSTRING [8]
sM_Cause	SM_Cause_v		SM cause M V OCTETSTRING [1]
tearDwnInd	TearDwnInd_tv		Tear down indicator O TV BITSTRING [8]
protocolConfOpts	ProtoCfgOpt		Protocol configuration options O TLV OCTETSTRING [3–253]
Detailed Comments :			

PDU Type Definition			
PDU Name : DEACTIVATERBTESTMODE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : DEACTIVATE RB TEST MODE n -> ue 3G TS 34.109 V3.0.0 cl. 6.8			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : DEACTIVATERBTESTMODECOMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : DEACTIVATE RB TEST MODE COMPLETE ue -> n 3G TS 34.109 cl. 6.9			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : DETACHACCEPTMO PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 clause 9.4.6.2 (DETACH ACCEPT mobile originated detach)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type '000 0110' M BITSTRING [8]
spare	B4		M 1/2 octet
forceToStandby	ForceToStandby		M 1/2 octet
Detailed Comments :			

PDU Type Definition			
PDU Name : DETACHREQUESTMO PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.5.2 (Mobile originating detach, GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
spare4	B4		M 1/2 octet
detachType	DetachType		M 1/2 octet
ptmsi	GMM_MS_IdentityPTMSI		O TLV
ptmsiSignature	PTMSI_Signature_tlv		O
Detailed Comments :			

PDU Type Definition			
PDU Name : IMSIDETACHINDICATION PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM IMSI DETACH INDICATION ue -> n 3G TS 24.008 V3.4.0 cl. 9.2.12			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
mSClsmk1	MS_Clsmk1		Mobile Station Classmark 1 M MSClsmk1 (1 octets)
mobileId	MS_Identity_lv		Mobile Identity LV M MobileId (2-10 octets)
Detailed Comments : (1) (see 3G TS 24.008 cl. 10.4) In messages sent from the UE, for core network nodes earlier than R99: bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number; for core network nodes of R99 or later: bits 7 and 8 are reserved for the send sequence number.			

PDU Type Definition			
PDU Name : LOCATIONUPDATINGACCEPT PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM LOCATION UPDATING ACCEPT n -> ms 3G TS 24.008 V3.4.0 cl. 9.2.13			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
locAreald	LocAreald_v		Location Area Id. V M LocAreald_v (5 octets)
mobileId	MM_MS_Identity		Mobile Identity O MobileId (3–11 octets)
followOnProceed	FollowOnProceed		Follow on proceed O BITSTRING [8]
cTSPerm	CTSPerm		CTS Permission O BITSTRING [8]
equivalentPLMN	PLMN_List		O 17 octets
emergNumList	EmergNumList		O TLV 5–50 octets
Detailed Comments : (1) In messages sent from the network bits 7 and 8 are "0" (see 3G TS 24.008 cl. 10.4) .			

PDU Type Definition			
PDU Name : LOCATIONUPDATINGREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM LOCATION UPDATING REQUEST ue -> n 3G TS 24.008 V3.4.0 cl. 9.2.15			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
ciphKeySeqNum	CiphKeySeqNum		Ciphering Key Sequence Number M BITSTRING [4]
locUpdType	LocUpdType		Location Updating Type M BITSTRING [4]
locAreald	LocAreald_v		Location Area Id. V M LocAreald (5 octets)
mSClsmk1	MS_Clsmk1		Mobile Station Classmark 1 M MSClsmk1 (1 octets)
mobileId	MS_Identity_Iv		Mobile Identity LV M MobileId (2-9 octets)
mSClsmk2	MS_Clsmk2		Mobile Station Classmark 2 TLV O MSClsmk2 (5 octets)
Detailed Comments : (1) (see 3G TS 24.008 cl. 10.4) In messages sent from the UE, for core network nodes earlier than R99: bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number; for core network nodes of R99 or later: bits 7 and 8 are reserved for the send sequence number.			

PDU Type Definition			
PDU Name : OPENUETESTLOOP PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : OPEN UE TEST LOOP n -> ue 3G TS 34.109 V3.0.0 cl. 6.4			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : OPENUETESTLOOPCOMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : OPEN UE TEST LOOP ue -> n 3G TS 34.109 V3.0.0 cl. 6.5			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
tCProtocolDiscriminator	ProtocolDiscriminator		TC Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : ROUTINGAREAUPDATEACCEPT PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.15 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator '1000' M BITSTRING [4]
msgType	MsgType		Message Type '0000 1001' M BITSTRING [8]
updateResult	UpdateResult_v		Update result M, 1/2 octet
forceToStandby	ForceToStandby		M 1/2 octet
periodicRAupdateTimer	GPRS_Timer_v		M 1 octet
rai	RAI_v		Routing Area Identification M 6 octets
ptmsiSignature	PTMSI_Signature		O 4 octets
allocatedPTMSI	GMM_MS_IdentityPTMSI		O 7 octets
msIdentity	GMM_MS_Identity		O 7–10 octets
listNPDUnumbers	ReceiveN_PDU_Numbers_tl v		O, TLV 4–19 octets
readyTimer	GPRS_Timer		O 2 octets
gmmCause	GMM_Cause		O 2 octets
t3302Value	GPRS_Timer2		O TLV 3 octets
cellNotification equivalentPLMN	CellNotification PLMN_List		O, T, 1 octets O 5–17 octets
pDP_ContextStatus	PDP_ContextStatus		O 4 octets
ntwFeatureSupport	NtwFeatureSupport_tv		O TV 1 octet
emergNumList	EmergNumList		O TLV 5–50 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : ROUTINGAREAUPDATEREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.14 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator '1000' M BITSTRING [4]
msgType	MsgType		Message Type '0000 1000' M BITSTRING [8]
gprsCiphKeySeqNo	CiphKeySeqNum		Ciphering key sequence number M BITSTRING[4]
updateType	UpdateType_v		Update Type M BITSTRING [4]
oldRAI	RAI_v		Routing Area Identification M 6 octets
msRadioAccessCap	MSRadioAccessCap_lv		M 6–52 octets
oldPTMSI_Signature	PTMSI_Signature		O 4 octets
readyTimer	GPRS_Timer		O 2 octets
drxParameter	DRXparamter_tv		O, TV 3 octets
tmsiStatus	TMSI_Status		O 1 octet
ptmsi	GMM_MS_IdentityPTMSI		O, TLV 7 octets
msnetworkcap	MS_NetworkCap_tlv		MS network capability O, TLV 4–10 octets
pDP_ContextStatus	PDP_ContextStatus		O 4 octets
pS_LCS_Capability	PS_LCS_Capability		O TLV 3 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : SERVICEREQUEST PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.20 (GMM message)			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gMMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type M BITSTRING [8]
serviceType	ServiceType_v		Service type M BITSTRING[4]
ciphKeySeqNo	CiphKeySeqNum		Ciphering key sequence number M BITSTRING[4]
ptmsi	MS_Identity_lv		Mobile Identity M 6 octets
pDP_ContextStatus	PDP_ContextStatus		O 4 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : SETUPul PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : CC SETUP n <- ue 3G TS 24.008 cl. 9.3.23.2			
Field Name	Field Type	Field Encoding	Comments
ti	Ti		transaction identifier M BITSTRING [4]
cC_ProtocolDiscriminator	ProtocolDiscriminator		CC protocol discriminator M BITSTRING [4]
msgType	MsgType		message type (1) M BITSTRING [8]
repeatInd	RepeatInd		repeat indicator C BITSTRING[8]
bcap1	Bcap		Bearer capability M OCTETSTRING [3..16]
bcap2	Bcap		Bearer capability O OCTETSTRING [3..16]
facility	Facility		facility O
cgps	CGPS		calling party subaddr. O OCTETSTRING [2..23]
cdpn	CDPN		called party number M OCTETSTRING[3..43]
cdps	CDPS		called party subaddr. O OCTETSTRING [2..23]
llcRepeatInd	RepeatInd		LLC repeat indicator O OCTETSTRING [1]
llc1	LLC		low layer compatib.1 O OCTETSTRING [2..18]
llc2	LLC		low layer compatib.2 O OCTETSTRING [2..18]
hlcRepeatInd	RepeatInd		HLC repeat indicator O OCTETSTRING [1]
hlc1	HLC		high layer compat.1 O OCTETSTRING [2..5]
hlc2	HLC		high layer compat. 2 O OCTETSTRING [2..5]
userUser	UserUser		user-user O OCTETSTRING [3..131]
sS_VersionInd	SS_VersionInd		SS version indicator ue -> n O OCTETSTRING [2..3]
cLIR_Suppression	CLIR_Suppression		CLIR suppression C OCTETSTRING[1]

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
cLIR_Invocation	CLIR_Invocation		CLIR invocation O OCTETSTRING[1]
cC_Capabilities	CC_Capabilities		cc capabilities O OCTETSTRING[3]
facilityCCBS_AdvRecall	Facility		facility for CCBS (advanced recall alignemet) O
facilityCCBS_RecallAlign	Facility		facility for CCBS (recall alignement not essential) O
streamId	StreamId		stream identifier O OCTETSTRING[3]
supportedCodecs	CodecList		supported codecs O OCTETSTRING[5-n]
Detailed Comments : (1) bits 7 and 8 are 0 and send sequence number for earlier than R99 resp. a 2bit send sequence number for R99 or later (see 3G TS 24.008 cl. 10.4)			

PDU Type Definition			
PDU Name : STATUS_PDU PCO Type : DSAP Encoding Rule Name : Encoding Variation : Comments : An AMD STATUS PDU. Ref 3G TS 25.322 clause 9.2.1.5			
Field Name	Field Type	Field Encoding	Comments
dC_Field	DC_Field		1
type	CtrlPDU_Type		2
superFieldsTx	SuperFields		3
superFieldsAndPadRx	HEXSTRING		4
paddingTx	Padding		5
Detailed Comments : 1. Always tsc_DC_ControlPDU for a STATUS PDU. 2. Always tsc_PDU_TypeStatus for a STATUS PDU. 3. The superfields transmitted in the STATUS PDU. 4. The superfields and padding to be received in the STATUS PDU. 5. The padding transmitted must be present to ensure that the total size of this PDU is exactly equal to the current PDU size. It is the callers responsibility to ensure that the superfields are either terminated with a NO_MORE SUFI, or an ACK SUFI.			

PDU Type Definition			
PDU Name : TMSIREALLOCATIONCOMPLETE PCO Type : Dc_SAP Encoding Rule Name : Encoding Variation : Comments : MM TMSI REALLOCATION COMPLETE ue -> n 3G TS 24.008 V3.4.0 cl. 9.2.18			
Field Name	Field Type	Field Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
mMProtocolDiscriminator	ProtocolDiscriminator		MM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
Detailed Comments : (1) (see 3G TS 24.008 cl. 10.4) In messages sent from the UE, for core network nodes earlier than R99: bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number; for core network nodes of R99 or later: bits 7 and 8 are reserved for the send sequence number.			

PDU Type Definition			
PDU Name : TrD_PDU PCO Type : DSAP Encoding Rule Name : OctetUnaligned Encoding Variation : Comments : Transparent mode RLC PDU. Ref 3G TS 25.322 clause 9.2.1.2			
Field Name	Field Type	Field Encoding	Comments
data	BITSTRING		
Detailed Comments :			

ASN.1 PDU Type Definition	
PDU Name : Invalid_DL_CCCH_Message PCO Type : DSAP Encoding Rule Name : PER_Unaligned Encoding Variation : Comments :	
Type Definition	
SEQUENCE { integrityCheckInfo IntegrityCheckInfo OPTIONAL, message Invalid_DL_CCCH_MsgType }	
Detailed Comments :	

ASN.1 PDU Type Definition	
PDU Name	: Invalid_DL_DCCH_Message
PCO Type	: DSAP
Encoding Rule Name	: PER_Unaligned
Encoding Variation	:
Comments	:
Type Definition	
<pre>SEQUENCE { integrityCheckInfo [0] IntegrityCheckInfo OPTIONAL, message [1] Invalid_DL_DCCH_MsgType }</pre>	
Detailed Comments	:

ASN.1 PDU Type Definition	
PDU Name	: Invalid_DL_SHCCH_Message
PCO Type	: DSAP
Encoding Rule Name	: PER_Unaligned
Encoding Variation	:
Comments	:
Type Definition	
<pre>SEQUENCE { message Invalid_DL_SHCCH_MsgType }</pre>	
Detailed Comments	:

ASN.1 PDU Type Definitions By Reference						
PDU Name	PCO Type	Type Reference	Module Identifie	Enc Rule	Enc Variation	Comments
BCCH_BCH_Message	DSAP	BCCH-BCH-Message	Class-definition	PER_Unaligned		
BCCH_FACH_Message	DSAP	BCCH-FACH-Message	Class-definition	PER_Unaligned		
DL_CCCH_Message	DSAP	DL-CCCH-Message	Class-definition	PER_Unaligned		
DL_DCCH_Message	DSAP	DL-DCCH-Message	Class-definition	PER_Unaligned		
DL_SHCCH_Message	DSAP	DL-SHCCH-Message	Class-definition	PER_Unaligned		
PCCH_Message	DSAP	PCCH-Messag	Class-definition	PER_Unaligned		
UL_CCCH_Message	DSAP	UL-CCCH-Message	Class-definition	PER_Unaligned		
UL_DCCH_Message	DSAP	UL-DCCH-Message	Class-definition	PER_Unaligned		
UL_SHCCH_Message	DSAP	UL-SHCCH-Message	Class-definition	PER_Unaligned		
Detailed Comments :						

Alias Definitions		
Alias Name	Expansion	Comments
TxMAC	RLC_TR_TestDataReq	This alias is used to transmit a MAC PDU. Note that MAC PDUs are sent using the RLC Tr PCO, on a logical channel mapped to a transport channel operating in a special MAC mode that will not add any MAC header information. This means that the entire MAC PDU can be specified within the TTCN. This is described in detail in 34.123–3, clause (TBD?) (MAC test method).
RxMAC	RLC_TR_TestDataInd	This alias is used to receive a MAC PDU. Note that MAC PDUs are received using the RLC Tr PCO, on a logical channel mapped to a transport channel operating in a special MAC mode that will not remove any MAC header information. This means that the entire MAC PDU can be inspected by the TTCN. This is described in detail in 34.123–3, clause (TBD?) (MAC test method).
RxStatus	RLC_TR_TestDataInd	This alias is used to receive an AM STATUS PDU. Note that AM PDUs are received using the Tr PCO, so that the RLC PDU can be specified within the TTCN. This is described in detail in 34.123–3, clause 6.5 (RLC test method).
Detailed Comments :		

III

Constraints Part

Structured Type Constraint Declaration			
Constraint Name : c_AddMeasParam3G Group : Structured Type : AdditionalMeasParam3G Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
fddQminOffset	'000'B		
fddRSCPmin	'0111'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_CellOptionsSI13_r5(p_NMO : B2) Group : Structured Type : GPRS_CellOptions Derivation Path : Encoding Variation : Comments : values from TS 51.010-1 v.5.5.0 subclause 40.2.1.1.1			
Element Name	Element Value	Element Encoding	Comments
nMO	p_NMO		network operation mode I
t3168	'011'B		2 second
t3192	'010'B		1.5 second
dRX_TIMER_MAX	'000'B		non-DRX not supported, 0 second
aCCESS_BURST_TYPE	'1'B		11 bits
cONTROL_ACK_TYPE	'1'B		RLC/MAC control block
bS_CV_MAX	'0111'B		7
pAN_Mask	'1'B		
pAN_DEC	'011'B		3
pAN_INC	'011'B		3
pAN_MAX	'010'B		N3102=12
optionalExtMask	'1'B		for R5
extensionLength	'000101'B		
extensionInfo	c_GPRS_CellOptionsExtension_r5		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_CellOptionsExtension_r5 Group : Structured Type : ExtensionInfo Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extensionMask	'0'B		EGPRS not supported
eGPRS_PACKET_CHANNEL_REQUEST	OMIT		EGPRS not supported
bEP_PERIOD	OMIT		EGPRS not supported
pFC_FEATURE_MODE	'0'B		packet context procedure not supported
dTM_SUPPORT	'0'B		DTM not supported
bSS_PAGING_COORDINATION	'0'B		CS paging coordination not supported
cCN_ACTIVE	'0000'B		R4 extension
nW_EXT_UTBF	'0'B		
spareBit	OMIT		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PDP_ContextStatus Group : Structured Type : PDP_ContextStatus Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00110010'B		'00110010'B
iel	'02'O		
nSAPI	'0000001000000000'B		NSAPI 5
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI2quaterRO_r5(p_NeighCellMask : B1; p_NeighCellDescr3G : NeighCellDescr3G; p_MeasParamMask : B1; p_MeasParamDescr3G : SI2quaterRO_MeasParamDescr3G; p_GPRS3GMeasParamMask : B1; p_GPRS3GMeasParamDescr : SI2quaterRO_GPRS_3G_MeasParamDescr) Group : Structured Type : SI2quaterRO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
bA_IND	'0'B		
bA_IND_3G	'0'B		
mP_CHANGE_MARK	'0'B		
sl2quater_INDEX	'0000'B		
sl2quater_COUNT	'0000'B		
measParamMask	'0'B		
measParamDescription	–		not present if measParamMask = 0
gprsRTDMask	'0'B		
gPRS_RealTimeDiffDescr	–		not present if gprsRTDMask = 0
gprsBSICMask	'0'B		
gPRS_BSIC_Description	–		not present if gprsBSICMask = 0
gprsRepPrioMask	'0'B		
gPRS_REP_PRIORITY_Des cr	–		not present if gprsRepPrioMask = 0
gprsMeasParamMask	'0'B		
gPRS_MeasParamsDescr	–		not present if gprsMeasParamMask = 0
ncMeasParamMask	'0'B		
NC_Measurement_Paramete rs	–		not present if ncMeasParamMask = 0
extnLengthMask	'0'B		
extensionLength	–		
neighCellMask	p_NeighCellMask		
neighCellDes3G	p_NeighCellDescr3G		not present if neighCellMask = 0
measParam3GMask	p_MeasParamMask		
measurementParams3G	p_MeasParamDescr3G		not present if measParam3GMask = 0
gprsMeasParam3GMask	p_GPRS3GMeasParamMask		
gPRS_3G_MeasParamDescr	p_GPRS3GMeasParamDesc r		not present if gprsMeasParam3GMask = 0
rel5Mask	'1'B		
addMeasMask	'1'B		not present if mask = L or rel5Mask = L
addMeasParam3G	c_AddMeasParam3G		not present if mask = L, rel5Mask = L or addMeasMask = 0
addMeasMask2	'1'B		not present if mask = L or rel5Mask = L

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
fddRepThres2Mask	'1'B		not present if mask = L, rel5Mask = L or addMeasMask2 = 0
fddRepThreshold2	'000000'B		not present if mask = L, rel5Mask = L, addMeasMask2 = 0 or fddRepThres2Mask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI13_RO_GPRS_r5(p_RAC : O1; p_NMO : B2) Group : Structured Type : SI13RO Derivation Path : Encoding Variation : Comments : ref: 51.010 clause 40.2.1			
Element Name	Element Value	Element Encoding	Comments
mask	'1'B		the rest fields except spareBits are all not present if mask = L
bCCH_CHANGE_MARK	'000'B		
sl_CHANGE_FIELD	'0000'B		
sl3ChangeMask	'0'B		not present if sl3ChangeMask = 0
sl13_CHANGE_MARK	OMIT		not present if sl3ChangeMask = 0
gPRS_MobileAllocation	OMIT		'0' -> no PBCCH
pbcchMask	'0'B		present if pbcchMask = 0
rAC	p_RAC		present if pbcchMask = 0
sPGC_CCCH_SUP	'1'B		present if pbcchMask = 0
pRIORITY_ACCESS_THR	'110'B		present if pbcchMask = 0
nETWORK_CONTROLI_OR DER	'00'B		present if pbcchMask = 0
gPRS_CellOptions	c_GPRS_CellOptionsSI13_r 5(p_NMO)		present if pbcchMask = 0
gPRS_PowerControlParame ters	c_GPRS_PowerControlPara m		present if pbcchMask = 0
pSI1_REPEAT_PERIOD	OMIT		present if pbcchMask = 1
pBCCH_Description	OMIT		present if pbcchMask = 1
r99Mask	'1'B		
sGSNR	'1'B		present if r99Mask = H
r4Mask	'1'B		
sl_STATUS_IND	'0'B		present if r4Mask = H
Detailed Comments : The info element has a fixed length of 20 octets.			

Structured Type Constraint Declaration			
Constraint Name : c_SI13_RO_PBCCH_DCS_r5 Group : Structured Type : SI13RO Derivation Path : Encoding Variation : Comments : Used for DCS 1800 and PCS 1900. Values taken from subclause 40.2.1 of TS 51.101-1 v.5.5.0			
Element Name	Element Value	Element Encoding	Comments
mask	'1'B		H, SI13 Rest Octets is not spare
bCCH_CHANGE_MARK	'000'B		
sI_CHANGE_FIELD	'0000'B		update of unspecified SI messages
sl3ChangeMask	'1'B		GPRS Mobile Allocation is present
sl13_CHANGE_MARK	'00'B		
gPRS_MobileAllocation	c_GPRSMobileAlloc('000011'B, '1111'B)		If the number of bits used here changes, spare padding must also be changed
pbcchMask	'1'B		PBCCH present
rAC	OMIT		'00000101'B
sPGC_CCCH_SUP	OMIT		
pRORITY_ACCESS_THR	OMIT		
nETWORK_CONTROLI_OR DER	OMIT		
gPRS_CellOptions	OMIT		
gPRS_PowerControlParameters	OMIT		
pSI1_REPEAT_PERIOD	'0010'B		3 frames PSI1repeat period
pBCCH_Description	c_PBCCH_Descr_Def		
r99Mask	'1'B		R99 addition present
sGSNR	'1'B		R99 onwards SGSN
r4Mask	'1'B		no R4 addition
sI_STATUS_IND	'0'B		present if r4Mask = H
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI13_RO_PBCCH_GSM_r5 Group : Structured Type : SI13RO Derivation Path : Encoding Variation : Comments : Used for GSM 900, 700 and 850. Values taken from subclause 40.2.1 of TS 51.101-1 v.5.5.0			
Element Name	Element Value	Element Encoding	Comments
mask	'1'B		H, SI13 Rest Octets is not spare
bCCH_CHANGE_MARK	'000'B		
sI_CHANGE_FIELD	'0000'B		update of unspecified SI messages
sl3ChangeMask	'1'B		GPRS Mobile Allocation is present
sl13_CHANGE_MARK	'00'B		
gPRS_MobileAllocation	c_GPRSMobileAlloc('000101'B, '001111'B)		If the number of bits used here changes, spare padding must also be changed
pbccchMask	'1'B		PBCCH present
rAC	OMIT		'00000101'B
sPGC_CCCH_SUP	OMIT		
pRORITY_ACCESS_THR	OMIT		
nETWORK_CONTROLI_OR DER	OMIT		
gPRS_CellOptions	OMIT		
gPRS_PowerControlParameters	OMIT		
pSI1_REPEAT_PERIOD	'0010'B		3 frames PSI1repeat period
pBCCH_Description	c_PBCCH_Descr_Def		
r99Mask	'1'B		R99 addition present
sGSNR	'1'B		R99 onwards SGSN
r4Mask	'1'B		no R4 addition
sI_STATUS_IND	'0'B		present if r4Mask = H
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_SUFI_ParamsAck(p_lb, p_ub: AM_SeqNum; p_wsnpres, p_mrwpres: BOOLEAN; p_nack_1, p_nack_2, p_nack_3: AM_SeqNum) Group : Structured Type : SUFI_Params Derivation Path : Encoding Variation : Comments : This constraint initializes the list of parameters to be used as input for TSO o_SUFI_Handler which treats a HEXSTRING containing received SUFIs. Refer to this TSO and the description of the test methodology.			
Element Name	Element Value	Element Encoding	Comments
LB	p_lb		1
UB	p_ub		1
WSN_presence	p_wsnpres		1
MRW_presence	p_mrwpres		1
Nack1	p_nack_1		1
Nack2	p_nack_2		1
Nack3	p_nack_3		1
Detailed Comments : 1. ...			

Structured Type Constraint Declaration			
Constraint Name : cs_Ack(p_LSN: INTEGER) Group : Structured Type : SUFI_Ack Derivation Path : Encoding Variation : Comments : An ACK SUFI to be used in SuperFields constraints. Parameters: p_LSN: An integer containing the last sequence number to be acknowledged. 0 <= p_LSN <= 4095 Padding calculations: 4 half octets			
Element Name	Element Value	Element Encoding	Comments
type	tsc_SUFI_Ack		4 bits
Isn	INT_TO_BIT(p_LSN, 12)		12 bits
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_SF_Ack(p_LSN:INTEGER) Group : Structured Type : SuperFields Derivation Path : Encoding Variation : Comments : This constraint is used to represent a SUFI list within a STATUS PDU that positively acknowledges all PUs with SN < p_LSN. Parameters: p_LSN: An integer representing LSN (last sequence number), which acknowledges all PUs with SN < LSN that are NOT indicated to be erroneous in earlier parts of the STATUS PDU. This parameter is used in a call to INT_TO_BIT, so a value must be provided. Padding calculation: 4 half octets			
Element Name	Element Value	Element Encoding	Comments
windowSize	—		
list	—		
rList	—		
bitmap	—		
mRW	—		
mRW_Ack	—		
noMore	—		
ack	cs_Ack(p_LSN)		4 half octets
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LenInd7AndE_BitAny Group : Structured Type : LenInd7AndE_Bit Derivation Path : Encoding Variation : Comments : This constraint is used to create a 7 bit length indicator followed by an extension bit. Parameters: p_LI7: An integer containing the required length indicator. 0 <= p_LI7 <= 127 p_ExtBit: Used to indicate whether the next octet contains a length indicator and E bit, or data. p_ExtBit must be either tsc_LI_AndE_Bit or tsc_E_Data.			
Element Name	Element Value	Element Encoding	Comments
lenInd	?		
extBit	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LIsAny Group : Structured Type : LenInds Derivation Path : Encoding Variation : Comments : This constraint is used to send or receive a length indicator group within a PDU (AM or UM). This constraint is used when there are exactly two 7 bit LIs in the group. Parameters: p_LI1: An integer representing the first 7 bit length indicator. This parameter is used within a call to INT_TO_BIT, so a value must be provided. p_LI2: An integer representing the second 7 bit length indicator. This parameter is used within a call to INT_TO_BIT, so a value must be provided.			
Element Name	Element Value	Element Encoding	Comments
lenInd7_1	c_LenInd7AndE_BitAny IF_PRESENT		
lenInd7_2	c_LenInd7AndE_BitAny IF_PRESENT		
lenInd7_3	c_LenInd7AndE_BitAny IF_PRESENT		
lenInd7_4	c_LenInd7AndE_BitAny IF_PRESENT		
lenInd7_5	c_LenInd7AndE_BitAny IF_PRESENT		
lenInd15_1	–		
lenInd15_2	–		
lenInd15_3	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LenInd7AndE_Bit(p_LI7:INTEGER; p_ExtBit: ExtBit) Group : Structured Type : LenInd7AndE_Bit Derivation Path : Encoding Variation : Comments : This constraint is used to create a 7 bit length indicator followed by an extension bit. Parameters: p_LI7: An integer containing the required length indicator. 0 <= p_LI7 <= 127 p_ExtBit: Used to indicate whether the next octet contains a length indicator and E bit, or data. p_ExtBit must be either tsc_LI_AndE_Bit or tsc_E_Data.			
Element Name	Element Value	Element Encoding	Comments
lenInd extBit	INT_TO_BIT(p_LI7, 7) p_ExtBit		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LIs1_7BitLIs(p_LI1: INTEGER) Group : Structured Type : LenInds Derivation Path : Encoding Variation : Comments : This constraint is used to send or receive a length indicator group within a PDU (AM or UM). This constraint is used when there are exactly two 7 bit LIs in the group. Parameters: p_LI1: An integer representing the first 7 bit length indicator. This parameter is used within a call to INT_TO_BIT, so a value must be provided. p_LI2: An integer representing the second 7 bit length indicator. This parameter is used within a call to INT_TO_BIT, so a value must be provided.			
Element Name	Element Value	Element Encoding	Comments
lenInd7_1	c_LenInd7AndE_Bit(p_LI1, tsc_E_Data)		
lenInd7_2	–		
lenInd7_3	–		
lenInd7_4	–		
lenInd7_5	–		
lenInd15_1	–		
lenInd15_2	–		
lenInd15_3	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LIs2_7BitLIs(p_LI1, p_LI2: INTEGER) Group : Structured Type : LenInds Derivation Path : Encoding Variation : Comments : This constraint is used to send or receive a length indicator group within a PDU (AM or UM). This constraint is used when there are exactly two 7 bit LIs in the group. Parameters: p_LI1: An integer representing the first 7 bit length indicator. This parameter is used within a call to INT_TO_BIT, so a value must be provided. p_LI2: An integer representing the second 7 bit length indicator. This parameter is used within a call to INT_TO_BIT, so a value must be provided.			
Element Name	Element Value	Element Encoding	Comments
lenInd7_1	c_LenInd7AndE_Bit(p_LI1, tsc_E_LI_AndE_Bit)		
lenInd7_2	c_LenInd7AndE_Bit(p_LI2, tsc_E_Data)		
lenInd7_3	–		
lenInd7_4	–		
lenInd7_5	–		
lenInd15_1	–		
lenInd15_2	–		
lenInd15_3	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_MAC_H_Header2SID_7_1_5_3(p_vf: B1; p_TSN : B6;p_SID1 :B3;p_SID2 :B3) Group : Structured Type : MAC_H_Header Derivation Path : Encoding Variation : Comments : Reference 25.321 clause 9.1.4 & 9.2.2			
Element Name	Element Value	Element Encoding	Comments
vf	p_vf		Version Flag 1.
queueID	tsc_QID_0		Queue Identifier 2.
tsn	p_TSN		Transmission Seq. Num. 3.
sid1	p_SID1		Size Indicator 4.
n1	'0000001'B		number of 1 PDU's
f1	'0'B		Flag 6.
sid2	p_SID2		Size Indicator 4.
n2	'0000001'B		number of Consecutive PDUS 1.
f2	'0'B		Flag 6.
sid3	p_SID1		Size Indicator 4.
n3	'0000001'B		number of Consecutive PDUS 5.
f3	'0'B		Flag 6.
sid4	p_SID2		Size Indicator 4.
n4	'0000001'B		number of Consecutive PDUS 5.
f4	'0'B		Flag 6.
sid5	p_SID1		Size Indicator 4.
n5	'0000001'B		number of Consecutive PDUS 5.
f5	'0'B		Flag 6.
sid6	p_SID2		Size Indicator 4.
n6	'0000001'B		number of Consecutive PDUS 5.
f6	'0'B		Flag 6.
sid7	p_SID1		Size Indicator 4.
n7	'0000001'B		number of Consecutive PDUS 5.
f7	'0'B		Flag 6.
sid8	p_SID2		Size Indicator 4.
n8	'0000001'B		number of Consecutive PDUS 5.
f8	'1'B		Flag 6.
Detailed Comments : 1. The VF field is a one bit flag providing extension capabilities of the MAC-hs PDU format. The VF field shall be set to zero and the value one is reserved in this version of the protocol 2. The Queue ID field provides identification of the reordering queue in the receiver, in order to support independent buffer handling of data belonging to different reordering queues. The length of the Queue ID field is 3 bit. 3. The TSN field provides an identifier for the transmission sequence number on the HS-DSCH. The TSN field is used for reordering purposes to support in-sequence delivery to higher layers. The length of the TSN field is 6 bit. 4. The SID fields identifies the size of a set of consecutive MAC-d PDUs. The MAC-d PDU size for a given SID is configured by higher layers and is independent for each Queue ID. The length of the SID field is 3 bit.			

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Structured Type Constraint Declaration

Detailed Comments : ...

5. The number of consecutive MAC-d PDUs with equal size is identified with the N field. The length of the N field is 7 bits. In FDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 70. In 1.28 Mcps TDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 45. In 3.84 Mcps TDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 318. If more PDUs than the defined maximum number of PDUs for the corresponding mode are received, the UE behaviour is unspecified.

6. The F field is a flag indicating if more fields are present in the MAC-hs header or not. If the F field is set to "0" the F field is followed by an additional set of SID, N and F fields. If the F field is set to "1" the F field is followed by a MAC-d PDU. The maximum number of MAC-hs header extensions, i.e. number of fields F set to "0", in a single TTI shall be assumed to be 7. If more extensions than the maximum defined for the corresponding mode are included in a TTI, the UE behaviour is unspecified.

Structured Type Constraint Declaration			
Constraint Name : cs_MAC_H_Header1SID(p_QId : B3; p_TSN : B6;p_SID :B3;p_N:B7) Group : Structured Type : MAC_H_Header Derivation Path : Encoding Variation : Comments : Reference 25.321 clause 9.1.4 & 9.2.2			
Element Name	Element Value	Element Encoding	Comments
vf	'0'B		Version Flag 1.
queueID	p_QId		Queue Identifier 2.
tsn	p_TSN		Transmission Seq. Num. 3.
sid1	p_SID		Size Indicator 4.
n1	p_N		number of Consecutive PDUS 5.
f1	'1'B		Flag 6.
sid2	OMIT		Size Indicator 4.
n2	OMIT		number of Consecutive PDUS 5.
f2	OMIT		Flag 6.
sid3	OMIT		Size Indicator 4.
n3	OMIT		number of Consecutive PDUS 5.
f3	OMIT		Flag 6.
sid4	OMIT		Size Indicator 4.
n4	OMIT		number of Consecutive PDUS 5.
f4	OMIT		Flag 6.
sid5	OMIT		Size Indicator 4.
n5	OMIT		number of Consecutive PDUS 5.
f5	OMIT		Flag 6.
sid6	OMIT		Size Indicator 4.
n6	OMIT		number of Consecutive PDUS 5.
f6	OMIT		Flag 6.
sid7	OMIT		Size Indicator 4.
n7	OMIT		number of Consecutive PDUS 5.
f7	OMIT		Flag 6.
sid8	OMIT		Size Indicator 4.
n8	OMIT		number of Consecutive PDUS 5.
f8	OMIT		Flag 6.
Detailed Comments : 1. The VF field is a one bit flag providing extension capabilities of the MAC–hs PDU format. The VF field shall be set to zero and the value one is reserved in this version of the protocol 2. The Queue ID field provides identification of the reordering queue in the receiver, in order to support independent buffer handling of data belonging to different reordering queues. The length of the Queue ID field is 3 bit. 3. The TSN field provides an identifier for the transmission sequence number on the HS–DSCH. The TSN field is used for reordering purposes to support in–sequence delivery to higher layers. The length of the TSN field is 6 bit. 4. The SID fields identifies the size of a set of consecutive MAC–d PDUs. The MAC–d PDU size for a given SID is configured by higher layers and is independent for each Queue ID. The length of			

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Structured Type Constraint Declaration	
Detailed Comments :	<p>the SID field is 3 bit.</p> <p>5. The number of consecutive MAC-d PDUs with equal size is identified with the N field. The length of the N field is 7 bits. In FDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 70. In 1.28 Mcps TDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 45. In 3.84 Mcps TDD mode, the maximum number of PDUs transmitted in a single TTI shall be assumed to be 318. If more PDUs than the defined maximum number of PDUs for the corresponding mode are received, the UE behaviour is unspecified.</p> <p>6. The F field is a flag indicating if more fields are present in the MAC-hs header or not. If the F field is set to "0" the F field is followed by an additional set of SID, N and F fields. If the F field is set to "1" the F field is followed by a MAC-d PDU. The maximum number of MAC-hs header extensions, i.e. number of fields F set to "0", in a single TTI shall be assumed to be 7. If more extensions than the maximum defined for the corresponding mode are included in a TTI, the UE behaviour is unspecified.</p>

Structured Type Constraint Declaration			
Constraint Name	: cbs_SM_Cause_v(cause: CauseValue)		
Group	:		
Structured Type	: SM_Cause_v		
Derivation Path	:		
Encoding Variation	:		
Comments	:		
Element Name	Element Value	Element Encoding	Comments
causeValue	cause		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name	: cr_FacAny		
Group	:		
Structured Type	: Facility		
Derivation Path	:		
Encoding Variation	:		
Comments	: Facility IE with AnyOrOmit values		
Element Name	Element Value	Element Encoding	Comments
iei	'00011100'B		
iel	?		
comps	*		component: any
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_FacilityRecallAlign Group : Structured Type : Facility Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011011'B		information element identifier
iel	?		length
comps	*		Component
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_PktDataProtoAddrMO_Iv_Len (p_Length : Length ;p_addr : IA5String) Group : Structured Type : PktDataProtoAddr_Iv Derivation Path : Encoding Variation : Comments : Received value of PDP Address			
Element Name	Element Value	Element Encoding	Comments
length	p_Length		
spare	'0000'B		
pDP_TypeOrg	tsc_PDP_TypeOrg		
pDP_TypeNo	tsc_PDP_TypeNo		
addrInfo	o_IA5_IP_ToOct (p_addr , TRUE)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_LLC_SAPI_UMTS_GSM_v Group : Structured Type : LLC_SAPI_v Derivation Path : Encoding Variation : Comments : LLC SAPI value assigned as SAPI 3 in order to ensure that there are no problems at the time of handover from UMTS to GSM			
Element Name	Element Value	Element Encoding	Comments
spare	'0000'B		
ILC_SAPI_Value	'0011'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_LLC_SAPI_UMTS_v Group : Structured Type : LLC_SAPI_v Derivation Path : Encoding Variation : Comments : The value of LLC SAPI for an UE supporting ONLY UMTS			
Element Name	Element Value	Element Encoding	Comments
spare	'0000'B		
ILC_SAPI_Value	'0000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_PktDataProtoAddrMT(p_len: Length; p_addr : IA5String) Group : Structured Type : PktDataProtoAddr Derivation Path : Encoding Variation : Comments : PDP Address sent to the UE			
Element Name	Element Value	Element Encoding	Comments
iei	'00101011'B		
length	p_len		
spare	'0000'B		
pDP_TypeOrg	tsc_PDP_TypeOrg		
pDP_TypeNo	tsc_PDP_TypeNo		
addrInfo	o_IA5_IP_ToOct (p_addr , TRUE)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_PktDataProtoAddrMT_lv(p_len: Length; p_addr : IA5String) Group : Structured Type : PktDataProtoAddr_lv Derivation Path : Encoding Variation : Comments : PDP Address sent to the UE			
Element Name	Element Value	Element Encoding	Comments
length	p_len		
spare	'0000'B		
pDP_TypeOrg	tsc_PDP_TypeOrg		
pDP_TypeNo	tsc_PDP_TypeNo		
addrInfo	o_IA5_IP_ToOct (p_addr , TRUE)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_PktFlowId Group : Structured Type : PktFlowIdentifier Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00110100'B		
length	'01'O		
pktFlowIdentifier	'00'O		Best effort
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_QoS_InteractiveOrBackgroundMT_lv (p_DlyClass, p_trafficClass : B3) Group : Structured Type : QualityOfService_lv Derivation Path : Encoding Variation : Comments : The QoS for interactive RAB at 64kbps uplink as well as down link, sent to the UE. This is set same as the one received by the nw			
Element Name	Element Value	Element Encoding	Comments
length	'0B'O		
spare	'00'B		
dlyClass	p_DlyClass		
reliabilityClass	'011'B		Unacknowledged GTP, LLC, and acknowledged RLC; Protected Data
peakThroughput	'0100'B		64 kbps
spare1	'0'B		
precedenceClass	'011'B		class 3
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		
deliveryOrder	'01'B		
deliveryErrorSDU	'010'B		
maxSDUSize	'20'O		
maxBitRateUplink	'40'O		64 kbps
maxBitRateDnlink	'40'O		64 kbps
residualBER	'0111'B		1 x 10E (–5)
sduErrRatio	'0100'B		1 X 10 E(–4)
transDly	'111111'B		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
bitRateUplink	'10'O		The guaranteed bit rate is set equal to 16 kbps
bitRateDnlink	'10'O		The guaranteed bit rate is set equal to 16 kbps
spare3	–		
signallingInd	–		
srcStatsDescr	–		
maxBitRateDnlinkExt	–		
bitRateDnlinkExt	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_RadioPriorityHigh_v Group : Structured Type : RadioPriority_v Derivation Path : Encoding Variation : Comments : This is a constraint for Radio Priority, indicating the RB Priority has to be high. Direction: nw -> ue in message ACTIVATE PDP CONTEXT ACCEPT			
Element Name	Element Value	Element Encoding	Comments
spare	'0'B		
value	'001'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAlloc(p_rFL_NUMBER:B4) Group : Structured Type : CellAlloc Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
rFL_NUMBER	p_rFL_NUMBER		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGPRS700_CellA Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for DCS 700 – GPRS cell A . Values are taken from 51.010 Table 40.1.1			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		
refFreqList	'8CE88AEC000000000000 000000000000'O		bit map o format, ARFCN = 457,467,462
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGPRS850_CellA Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for DCS 850 – GPRS cell A . Values are taken from 51.010 Table 40.1.1			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '858994D80000000000000000 00000000000'O		bit map o format, ARFCN = 147, 157, 167
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM1800A Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for cell A in RR testing of DCS1800 with the ARFCN list = {590, 650, 750, 850}..			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '8927282719000000000000 00000000000'O		ARFCNs : 590, 650, 750, 850 512 range
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM1900A Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for cell A in RR testing of GSM 1900 with the ARFCN list = {590, 650, 750, 850}..			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '8927282719000000000000 00000000000'O		ARFCNs : 590, 650, 750, 850 512 range
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM450A Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for cell A in RR testing of GSM 450 with the ARFCN list = 263, 267, 275 and 279			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '8C838CE0400000000000 000000000000'O		ARFCNs : 263, 267, 275 and 279 128 range
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM480A Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for cell A in RR testing of GSM 480 with the ARFCN list = {310, 315, 322 and 326}..			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '8C9B0CE4400000000000 000000000000'O		ARFCNs : 310, 315, 322 and 326 128 range
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocLists(p_rFL_NUMBER:B4) Group : Structured Type : CellAllocLists Derivation Path : Encoding Variation : Comments : The definition in CSN.1 is {1 < Cell Allocation struct >}**0, so the prefix bit and following structure may repeat infinite times, this TTCN definition shall be modified to include more CellAllocation if more than 2 CellAllocation are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.19			
Element Name	Element Value	Element Encoding	Comments
prefix1 cellAlloc1 endingRepetition	'1'B c_CellAlloc(p_rFL_NUMBE R) '0'B		not present if prefix1 = 0 Value always ZERO, indicates the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM900_CellA Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for GSM 900 cell A			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '00000000000000000000 00000000421'O		bit map o format, ARFCN = 1, 6, 11
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM900_CellB Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for GSM 900 cell B			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '00000000000000000000 00000010840'O		bit map o format, ARFCN = 7, 12, 17
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM900_CellC Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for GSM 900 cell C			
Element Name	Element Value	Element Encoding	Comments
iei refFreqList	OMIT '0000000000000000000010 84000000000'O		bit map o format, ARFCN = 39, 44, 49
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGPRS900 Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : As specified in 51.010, clause 40.2.1.1.1 {10, 20, 40, 50, 60, 80} bitmap 0			
Element Name	Element Value	Element Encoding	Comments
iei	–		
refFreqList	'0000000000000800008020 08000080200'O		reference frequency list, the first octet is length
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGPRS1800_1900 Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : As specified in 51.010, clause 40.2.1.1.1 {520, 530, 540, 550} range 512			
Element Name	Element Value	Element Encoding	Comments
iei	–		
refFreqList	'8904053D82800000000000 00000000000'O		reference frequency list, the first octet is length
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGPRS700 Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : As specified in 51.010, clause 40.2.1.1.1 {447, 457, 477, 487, 497, 509} range 128			
Element Name	Element Value	Element Encoding	Comments
iei	–		
refFreqList	'8CDFA8D9665000000000 00000000000'O		reference frequency list, the first octet is length
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGPRS850 Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : As specified in 51.010, clause 40.2.1.1.1 {137, 147, 167, 177, 187, 207}			
Element Name	Element Value	Element Encoding	Comments
iei	–		
refFreqList	'8C44A8D9E63000000000 000000000000'O		reference frequency list, the first octet is length
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocListNone Group : Structured Type : CellAllocLists Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
prefix1	–		
cellAlloc1	–		not present if prefix1 = 0
endingRepetition	'0'B		Value always ZERO, indicates the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM900_CellA Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 450. values are taken from 3GPP TS 34.123 Table6.5			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0000000001'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM900_CellA		Serving cell: 1 frequency parameters for traffic channel. no hopping ARFCN = 6, as default value not given, the value is assumed as bCCH_Freq+5
sDCCH8_Freq	c_SDCCH8_FreqGSM900_CellA		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 11, as default value not given, the value is assumed as bCCH_Freq+10
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVermf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKES_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS qustion?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
callReestab	'1'B		Call re-establishment not allowed
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM900_CellA		cell allocation, ARFCNs : 1, 6, 11 0 range
neighBCCHFreqList	c_NeighBCCH_FreqListGSM900_CellA		neighbour cell BCCH/CCCH ARFCN's = 7, 39
extNeighBCCHFreqList	c_ExtNeighBCCH_FreqList2bis		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis
extNeighBCCHFreqList2ter	c_ExtNeighBCCH_FreqList2terDCS		extended neighbour cell BCCH/CCCH ARFCN's in sysinfoType2ter.
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM900A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
CELL_RESELECT_HYSTERESIS	'110'B		cell reselect hysteresis = 12 dB,
MS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
RXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		ARFCN band using the asn.1 type. This value shall be consistent with bandIndicator
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
powerControl	'0'B		power control not set.

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM900_CellB Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 450. values are taken from 3GPP TS 34.123 Table6.5			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0000000111'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM900_CellB		Serving cell: 7 frequency parameters for traffic channel. no hopping ARFCN = 12, as default value not given, the value is assumed as bCCH_Freq+5
sDCCH8_Freq	c_SDCCH8_FreqGSM900_CellB		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 17, as default value not given, the value is assumed as bCCH_Freq+10
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVermf().
cellIdentity	'0002'O		cell identity = '0002'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKES_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS qustion?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
callReestab	'1'B		Call re-establishment not allowed
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM900_CellB		cell allocation, ARFCNs : 7, 12, 17 0 range
neighBCCHFreqList	c_NeighBCCH_FreqListGSM900_CellB		neighbour cell BCCH/CCCH ARFCN's = 1, 39
extNeighBCCHFreqList	c_ExtNeighBCCH_FreqList2bis		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis
extNeighBCCHFreqList2ter	c_ExtNeighBCCH_FreqList2terDCS		extended neighbour cell BCCH/CCCH ARFCN's in sysinfo2ter.
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rselect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		ARFCN band using the asn.1 type. This value shall be consistent with bandIndicator
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
pwrc	'0'B		power control not set.

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM900_CellC Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 900. values are taken from 3GPP TS 34.123 Table6.5			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0000100111'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM900_CellC		Serving cell: 39 frequency parameters for traffic channel. no hopping ARFCN = 44, as default value not given, the value is assumed as bCCH_Freq+5
sDCCH8_Freq	c_SDCCH8_FreqGSM900_CellC		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 49, as default value not given, the value is assumed as bCCH_Freq+10
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVermf().
cellIdentity	'0003'O		cell identity = '0003'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach not allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKs_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS qstion?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
callReestab	'1'B		Call re-establishment not allowed
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM900_CellC		cell allocation, ARFCNs : 39, 44, 49 0 range
neighBCCHFreqList	c_NeighBCCH_FreqListGSM900_CellC		neighbour cell BCCH/CCCH ARFCN's = 1, 7
extNeighBCCHFreqList	c_ExtNeighBCCH_FreqList2bis		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis
extNeighBCCHFreqList2ter	c_ExtNeighBCCH_FreqList2terDCS		extended neighbour cell BCCH/CCCH ARFCN's in sysinfo2ter.
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
CELL_RESELECT_HYSTERESIS	'110'B		cell reselect hysteresis = 12 dB,
MS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
RXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		ARFCN band using the asn.1 type. This value shall be consistent with bandIndicator
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
powerControl	'0'B		power control not set.

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGPRS700_CellA(p_cCCH_CONF:B3) Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 700 – GPRS cell. Values are taken from 3GPP TS 51.010 Table 40.1.1			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0111001001'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping Serving cell: 457
tCH_Freq	OMIT		
sDCCH8_Freq	OMIT		
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach allowed
cCCH_CONF	p_cCCH_CONF		1 basic physical channel for CCCH combinaed with SDCCH 0 basic physical channel for CCCH not combinaed with SDCCH
bS_AG_BLKS_RES	'010'B		2 blocks reserved
bS_PA_MFRMS	'100'B		6 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS question?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGPRS700_CellA		cell allocation, ARFCNs : 20,40,60 0 range
neighBCCHFreqList	c_NeighBCCH_FreqListGPRS700_CellA		neighbour cell BCCH/CCCH ARFCN's = 515,600,700,780,810,870,875,885
extNeighBCCHFreqList	–		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis
extNeighBCCHFreqList2ter	–		To be changed while using extended neighbour cell BCCH/CCCH ARFCN's in sysinfotype2ter. To be changed while using
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM900A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rselect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	'01010'B		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		px_MS_TXPWR_MAX_CCH Default value : 10 minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		ARFCN band using teh asn.1 type. This value shall be consistent with bandIndicator
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
pwrc cellConfiguration	'0'B cell_AMR		power control not set. current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGPRS850_CellA(p_cCCH_CONF:B3) Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 850 – GPRS cell. Values are taken from 3GPP TS 51.010 Table 40.1.1			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0010010011'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping Serving cell: 147
tCH_Freq	OMIT		
sDCCH8_Freq	OMIT		
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach allowed
cCCH_CONF	p_cCCH_CONF		1 basic physical channel for CCCH combinaed with SDCCH 0 basic physical channel for CCCH not combinaed with SDCCH
bS_AG_BLKS_RES	'010'B		2 blocks reserved
bS_PA_MFRMS	'100'B		6 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS question?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGPRS850_CellA		cell allocation, ARFCNs : 20,40,60 0 range
neighBCCHFreqList	c_NeighBCCH_FreqListGPRS850_CellA		neighbour cell BCCH/CCCH ARFCN's = 515,600,700,780,810,870,875,885
extNeighBCCHFreqList	–		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis
extNeighBCCHFreqList2ter	–		To be changed while using extended neighbour cell BCCH/CCCH ARFCN's in sysinfotype2ter. To be changed while using
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM900A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rerelect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	'01010'B		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		px_MS_TXPWR_MAX_CCH Default value : 10 minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		ARFCN band using teh asn.1 type. This value shall be consistent with bandIndicator
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
pwrc cellConfiguration	'0'B cell_AMR		power control not set. current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM1800 Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 1800. values are taken from 3GPP TS 51.010 clause 26.1.1 and 26.6.15, if there is a discrepancy between these two clause the value in clause 26.6.15 is taken.			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'1001001110'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM1800		Serving cell: 590 frequency parameters for traffic channel. no hopping ARFCN =650
sDCCH8_Freq	c_SDCCH8_FreqGSM1800		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 750
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach not allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKES_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS question?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM1800A		cell allocation, 590, 650, 750, 850 512 range
neighBCCHFreqList	c_NeighBCCHFreqListGSM1800A		neighbour cell BCCH/CCCH for GSM 1800 cell A. ARFCN = 520, 590, 600, 700, 747, 764, 780, 810, 870
extNeighBCCHFreqList	–		To Be filled?
extNeighBCCHFreqList2ter	–		To Be filled?
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM1800A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rselect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		DCS1800 band
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
pwrc	'0'B		power control not set.
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM1900 Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 00. values are taken from 3GPP TS 51.010 clause 26.1.1 and 26.6.14, if there is a discrepancy between these two clause the value in clause 26.6.14 is taken.			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'1001001110'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM1900		Serving cell: 590 frequency parameters for traffic channel. no hopping ARFCN =650
sDCCH8_Freq	c_SDCCH8_FreqGSM1900		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 750
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach not allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKES_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS qstion?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM1900A		ARFCNs : 590, 650, 750, 850 512 range
neighBCCHFreqList	c_NeighBCCHFreqListGSM1900A		neighbour cell BCCH/CCCH ARFCN: 520, 590, 600, 647, 664, 700, 720, 760, 780.
extNeighBCCHFreqList	–		
extNeighBCCHFreqList2ter	–		
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM900A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rselect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'1'B		ARFCN band = 1900 band
bandIndicatorAsn1	pcs1900BandUsed		DCS1800 band
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
pwrC	'0'B		power control not set.
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM450 Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 450. values are taken from 3GPP TS 51.010 clause 26.1.1 and 26.6.16, if there is a discrepancy between these two clause the value in clause 26.6.16 is taken.			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0100000111'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM450		Serving cell: 263 frequency parameters for traffic channel. no hopping ARFCN = 267
sDCCH8_Freq	c_SDCCH8_FreqGSM450		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 275
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach not allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKs_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS question?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM450A		cell allocation, ARFCNs : 263, 267, 275 and 279
neighBCCHFreqList	c_NeighBCCHFreqListGSM450A		128 range neighbour cell BCCH/CCCH ARFCN's = 262, 263, 274, 282, 284, 287, 290 and 293
extNeighBCCHFreqList	–		
extNeighBCCHFreqList2ter	–		
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM450A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rselect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		DCS1800 band
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
pwrc	'0'B		power control not set.
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM480 Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 480. values are taken from 3GPP TS 51.010 clause 26.1.1 and 26.6.17, if there is a discrepancy between these two clause the value in clause 26.6.17 is taken.			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0100110110'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM480		Serving cell: 310 frequency parameters for traffic channel. no hopping ARFCN = 314
sDCCH8_Freq	c_SDCCH8_FreqGSM480		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 322
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach not allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKES_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS question?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM480A		cell allocation, ARFCN 310, 315, 322 and 326
neighBCCHFreqList	c_NeighBCCHFreqListGSM480A		128 range neighbour cell BCCH/CCCH ARFCN's = 308, 310, 321, 329, 331, 334, 337 and 340.
extNeighBCCHFreqList	–		
extNeighBCCHFreqList2ter	–		
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM480A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cELL_RESELECT_HYSTERESIS	'110'B		cell rselect hysteresis = 12 dB,
mS_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
rXLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		DCS1800 band
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
pwrc	'0'B		power control not set.
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as place holder
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_CellConfigInfoGSM900 Group : Structured Type : G_CellConfigInfo Derivation Path : Encoding Variation : Comments : default configuration parameters for GSM 900. values are taken from 3GPP TS 51.010 clause 26.1.1 and 26.6.14, if there is a discrepancy between these two clause the value in clause 26.6.14 is taken.			
Element Name	Element Value	Element Encoding	Comments
bCCH_Freq	'0000010100'B		BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping
tCH_Freq	c_TCH_FreqGSM900		Serving cell: 20 frequency parameters for traffic channel. no hopping ARFCN =30
sDCCH8_Freq	c_SDCCH8_FreqGSM900		frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 50
downlinkPowerLevel	63		Downlink transmission power level = 63 dB uVemf().
cellIdentity	'0001'O		cell identity = '0001'O
mcc	'001'H		mobile country code = 001 (decimal)
mnc	'01F'H		mobile network code = 01 (desimal)
lac	'0001'O		location area code = '0001'O
ncc	'001'B		PLMN colour code = '001'B
bcc	'101'B		BS colour code = '101'B
dTX	'10'B		Uplink discontinuous transmission not used. (indecation in BCCH)
dtx8	'0'B		Uplink discontinuous transmission not used. (indecation in SACHH)
dtx65	'10'B		Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B		IMSI attach/detach allowed
cCCH_CONF	'001'B		1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKES_RES	'000'B		0 block reserved
bS_PA_MFRMS	'011'B		5 paging subgroups
splitOnCCCH	px_SplitOnCCCH		no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS qstion?)
cell_BAR_ACCESS	'0'B		cell not barred for access
cellBarQualify2	'00'B		cell bar qualify 2 inactive
callReestab	'1'B		Call re-establishment not allowed

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
timingAdvance	'1F'O		timing advance value = 30 * 48/13 us
tSC	px_TSC		training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM900A		cell allocation, bit map 0, ARFCN = 20, 30, 50, 70.
neighBCCHFreqList	c_NeighBCCH_FreqListGSM900A		neighbour cell BCCH/CCCH ARFCN's = 10, 20, 40, 80, 90, 100, 110, 120
extNeighBCCHFreqList	c_ExtNeighBCCH_FreqList2bis		extended neighbour cell BCCH/CCCH ARFCN's in SI2bis, ARFCN = 985, 989, 995, 1010, 1014
extNeighBCCHFreqList2ter	c_ExtNeighBCCH_FreqList2terDCS		extended neighbour cell BCCH/CCCH ARFCN's in sysinfoType2ter, ARFCN = 520, 590, 600, 700, 780, 810, 870
cipherKey	px_CipherKey		cipher key
cipherMode	c_CipherModeSettingGSM900A		ciphering algorithm and cipher starting flag, 3GPP TS 44.018 clause 10.5.2.9
emergencyCall	'0'B		Emergency call allowed
accessControlClass2	'00000'B		Access control class 11..15 allowed
accessControlClass1	'0000000000'B		Access control class 0..9 allowed
radioLinkTimeout	'0001'B		RADIO-LINK-TIMEOUT = 8 SACCH blocks
t3212	'00'O		T3212 never expire
maxRetrans	'00'B		Maximum number of retransmission = 1
txInteger	'0010'B		Number of slots to spread transmission = 5
cell_RESELECT_HYSTERESIS	'110'B		cell reselect hysteresis = 12 dB,
ms_TXPWR_MAX_CCH	px_MS_TXPWR_MAX_CCH		MS_TXPWR_MAX_CCH
rxLEV_ACCESS_MIN	px_RXLEV_ACCESS_MIN		minimum received signal level at MS
nECI	'0'B		New establishment causes not supported
aCS	'0'B		no additional parameters in SI 7 and 8.
bandIndicator	'0'B		ARFCN band = DCS1800 band
bandIndicatorAsn1	dcs1800BandUsed		DCS1800 band
nccPermitted	'02'O		NCC permitted = 0000 0010
dN_Ind	'0'B		dynamic ARFCN mapping not used
powerControl	'0'B		power control not set.
cellConfiguration	cell_AMR		current configuration of the cell, cell_AMR used as placeholder

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Structured Type Constraint Declaration
Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : c_ExtNeighBCCH_FreqList2terDCS			
Group :			
Structured Type : NeighCellDescr2			
Derivation Path :			
Encoding Variation :			
Comments : range 512, ARFCN = 520, 590, 600, 700, 780, 810, 870			
Element Name	Element Value	Element Encoding	Comments
b128	'1'B		Bit 128, format-ID
mbrpt	'00'B		Multiband reporting
baind	'0'B		bcch allocation sequence number indication
b121_124	'1001'B		Bit 124 – 121, format ID next
rfl	'04411316BB44C80000000000000000'O		remaining reference frequency list
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ExtNeighBCCH_FreqList2bis			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : range 256, ARFCN = 985, 989, 995, 1010, 1014			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		bits 128–127
extind	'1'B		extension indication
baind	'0'B		bcch allocation sequence number indication
rfl4	'1011'B		bits 124–121
rfl	'EC8CF109D00000000000000000000000'O		bits 120–0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGSM900_CellA			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : for GSM 900 cell A. ARFCN = 7, 39			
Element Name	Element Value	Element Encoding	Comments
rfl2	'00'B		bit map 0 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'0000'B		bits 124–121
rfl	'0000000000000000000004		bits 120–0
	000000040'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGSM900_CellB			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : for GSM 900 cell B. ARFCN = 1, 39			
Element Name	Element Value	Element Encoding	Comments
rfl2	'00'B		bit map 0 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'0000'B		bits 124–121
rfl	'0000000000000000000004 000000001'O		bits 120–0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGPRS850_CellA Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for GSM 850 cell A. ARFCN =137,177,197,207,217,227,237 Values are taken from 51.010 Table 40.1.1			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1100'B		
rfl	'88D0B186398000000000000000000000'O		ARFCN: 137,177,197,207,217,227,237
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCHFreqListGSM1800A Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for GSM 1800 cell A. ARFCN = 520, 590, 600, 700, 747, 764, 780, 810, 870			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	'043D170B8A62C8F23000000000000000'O		ARFCN: 520, 590, 600, 700, 747, 764, 780, 810, 870
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCHFreqListGSM1900A			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : for GSM 1800 cell A. ARFCN = 520, 590, 600, 647, 664, 700, 720, 760, 780.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	—		ARFCN: 520, 590, 600, 647, 664, 700, 720, 760, 780.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCHFReqListGSM450A			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : for GSM 450 cell A. ARFCN = 262, 263, 274, 282, 284, 287, 290 and 293			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 128 format complete BA bcch allocation sequence number indication
extind	'0'B		
baind	'0'B		
rfl4	'1001'B		ARFCN: 262, 263, 274, 282, 284, 287, 290 and 293
rfl	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCHFreqListGSM480A			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : for GSM 480 cell A. ARFCN = 308, 310, 321, 329, 331, 334, 337 and 340.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 128 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	–		ARFCN: 308, 310, 321, 329, 331, 334, 337 and 340.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGSM900A Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for GSM 900 cell A. ARFCN = 10, 20, 40, 80, 90, 100, 110, 120			
Element Name	Element Value	Element Encoding	Comments
rfl2	'00'B		bit map 0 format incomplete BA bcch allocation sequence number indication
extind	'1'B		
baind	'0'B		
rfl4	'0000'B		bits 124–121
rfl	'802008020080000000008 000080200'O		bits 120–0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGPRS1900 Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for GSM 1900 cell. ARFCN = 515, 590, 600, 655, 700, 710, 740, 780, 810. Values are taken from 51.010 Table 40.2.1.1.1			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	'01B0F251A4D85A7B600000000000'O		ARFCN = 515, 590, 600, 655, 700, 710, 740, 780, 810.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGPRS700 Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for GSM 700 cell. ARFCN = 437,447,457,467,477,487,497,502,507. Values are taken from 51.010 Table 40.2.1.1.1			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 128 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1100'B		
rfl	'DAB2B0FB6D45600000000000000'O		ARFCN: 437,447,457,467,477,487,497,502,507
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGPRS850 Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for DCS 1800 cell A. ARFCN = 137,147,157,177,197,207,217,227,237. Values are taken from 51.010 Table 40.2.1.1.1			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 128 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1100'B		
rfl	'44C6394B5A8A30000000 0000000000'O		ARFCN: 137,147,157,177,197,207,217,227,237
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGPRS450 Group : Structured Type : NeighCellDescr Derivation Path : Encoding Variation : Comments : for GSM 450 cell A. ARFCN = 259, 263, 269, 275, 279, 283, 287 and 292			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 128 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1100'B		
rfl	'8194D88D70C500000000 0000000000'O		ARFCN: 259, 263, 269, 275, 279, 283, 287 and 292
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighBCCH_FreqListGPRS480			
Group :			
Structured Type : NeighCellDescr			
Derivation Path :			
Encoding Variation :			
Comments : for GSM 450 cell A. ARFCN = 306, 310, 316, 322, 326, 330, 334 and 339			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 128 format
extind	'0'B		complete BA
baind	'0'B		bcch allocation sequence number indication
rfl4	'1100'B		
rfl	'9914D88D70C500000000 0000000000'O		ARFCN: 306, 310, 316, 322, 326, 330, 334 and 339
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCHHoppingFreqList_GSM900 Group : Structured Type : FreqListNoIEI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	'05'O		OCTETSTRING [1]
fl	'8C051EB0A0'O		list of the absolute radio frequency channel numbers
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCHHoppingFreqList_DCSPCS Group : Structured Type : FreqListNoIEI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	'05'O		OCTETSTRING [1]
fl	'8D0414D8A0'O		list of the absolute radio frequency channel numbers
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCHHoppingFreqList_GSM700 Group : Structured Type : FreqListNoIEI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	'05'O		OCTETSTRING [1]
fl	'8CDF9EB0A0'O		list of the absolute radio frequency channel numbers
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCHHoppingFreqList_GSM850 Group : Structured Type : FreqListNoIEI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	'05'O		OCTETSTRING [1]
fl	'8C449EB0A0'O		list of the absolute radio frequency channel numbers
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM900_CellA Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 11			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000001011'B		absolute RF channel number = 11
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM900_CellB Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 17			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000010001'B		absolute RF channel number = 17
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM900_CellC Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 49			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000110001'B		absolute RF channel number = 49
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM1800 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =750			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'1011101110'B		absolute RF channel number = 750
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM1900 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =750			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'1011101110'B		absolute RF channel number = 750
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM450 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =275			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0100010011'B		absolute RF channel number =275
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM480 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =322			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0101000010'B		absolute RF channel number = 322
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM900_CellA Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 6			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000000110'B		absolute RF channel number = 6
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM900_CellB Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 12			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000001100'B		absolute RF channel number = 12
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM900_CellC Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 44			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000101100'B		absolute RF channel number = 44
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM1800 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =650			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'1010001010'B		absolute RF channel number = 650
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM1900 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =650			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'1010001010'B		absolute RF channel number = 650
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM450 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =267			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0100001011'B		absolute RF channel number = 267
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM480 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =314			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0100111010'B		absolute RF channel number = 314
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AddPSI3quater Group : Structured Type : AdditionalPSIMessages Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
nON_GSM_INFORMATION	'00'B		
pSI8_BROADCAST	'0'B		
pSI3ter_BROADCAST	'0'B		
pSI3quater_BROADCAST	'1'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CCCH_Info(p_BS_PA_MFRMS, p_BS_AG_BLKES_RES: BITSTRING) Group : Structured Type : CCCH_Info Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
bS_PA_MFRMS	p_BS_PA_MFRMS		
bS_AG_BLKES_RES	p_BS_AG_BLKES_RES		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellAllocGSM900A Group : Structured Type : CellChDescr Derivation Path : Encoding Variation : Comments : for GSM 900 cell A			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		
refFreqList	'000000000000002000020 00020080000'O		bit map o format, ARFCN = 20, 30, 50, 70
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellIdentification(p_MCC, p_MNC: HEXSTRING; p_LAC: OCTETSTRING; p_RAC : O1) Group : Structured Type : CellIdentification Derivation Path : Encoding Variation : Comments : CellIdentification			
Element Name	Element Value	Element Encoding	Comments
locationAreaId	c_LocAreaId_v(p_MCC, p_MNC, p_LAC)		3GPP TS 44.018
rAC	p_RAC		3GPP TS 23.003
cellIdentity	'0001'O		3GPP TS 44.018
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellOptionBCCH(p_DN_Ind, p_Pwrc: B1;p_DTX :B2; p_RadioLinkTimeout : B4) Group : Structured Type : CellOptionBCCH Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information lelement identifier
dn_Ind	p_DN_Ind		dynamic ARFCN mapping indicator
pwrc	p_Pwrc		power control indicator
dtx	p_DTX		discontinuous transmission indicator
radioLinkTimeout	p_RadioLinkTimeout		radio link timeout
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellOptionSACCH(p_DTX8, p_Pwrc: B1;p_DTX65 :B2; p_RadioLinkTimeout : B4) Group : Structured Type : CellOptionSACCH Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information lelement identifier
dtx8	p_DTX8		discontinuous transmission indicator, most signifigent bit
pwrc	p_Pwrc		power control indicator
dtx65	p_DTX65		discontinuous transmission indicator
radioLinkTimeout	p_RadioLinkTimeout		radio link timeout
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellSelection_Cell1			
Group :			
Structured Type : CellSelection			
Derivation Path :			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 11.2.20			
Element Name	Element Value	Element Encoding	Comments
bSIC	'001101'B		Normal reselection
cELL_BAR_ACCESS_2	'0'B		
eXC_ACC	'0'B		same routing area
sAME_RA_AS_SERVING_CELL	'1'B		
gPRS_PwrMask	'1'B		GPRS_RXLEV_ACCESS_MIN present
gPRS_RXLEV_ACCESS_MIN	'011111'B		not present if gPRS_PwrMask = 0
gPRS_MS_TXPWR_MAX_CCH	'01010'B		-80 dBm
gPRS_SelectMask	'1'B		not present if gPRS_PwrMask = 0
gPRS_TEMPORARY_OFFSET	'000'B		GPRS_TEMPORARY_OFFSET present
gPRS_PENALTY_TIME	'00000'B		not present if gPRS_SelectMask = 0
gPRS_ReselectMask	'1'B		GPRS_RESELECT_OFFSET present
gPRS_RESELECT_OFFSET	'10000'B		not present if gPRS_ReselectMask = 0
hCS_Mask	'1'B		HCS params present
hCS_Params	c_HCS('001'B,'10100'B)		not present if hCS_Mask = 0
sl13_Mask	'1'B		not present if sl13_Mask = 0
sl13_PBCCH_LOCATION	c_SI13PBCCH_Location_SI13		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellSelection_Cell2			
Group :			
Structured Type : CellSelection			
Derivation Path :			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 11.2.20			
Element Name	Element Value	Element Encoding	Comments
bSIC	'001101'B		Normal reselection
cELL_BAR_ACCESS_2	'0'B		
eXC_ACC	'0'B		same routing area
sAME_RA_AS_SERVING_CELL	'1'B		
gPRS_PwrMask	'1'B		GPRS_RXLEV_ACCESS_MIN present
gPRS_RXLEV_ACCESS_MIN	'010111'B		not present if gPRS_PwrMask = 0
gPRS_MS_TXPWR_MAX_CCH	'01010'B		-88 dBm
gPRS_SelectMask	'0'B		not present if gPRS_PwrMask = 0
gPRS_TEMPORARY_OFFSET	OMIT		GPRS_TEMPORARY_OFFSET not present
gPRS_PENALTY_TIME	OMIT		not present if gPRS_SelectMask = 0
gPRS_ReselectMask	'1'B		not present if gPRS_SelectMask = 0
gPRS_RESELECT_OFFSET	'10000'B		GPRS_RESELECT_OFFSET present
hCS_Mask	'0'B		not present if gPRS_ReselectMask = 0
hCS_Params	OMIT		HCS params not present
sl13_Mask	'1'B		not present if hCS_Mask = 0
sl13_PBCCH_LOCATION	c_SI13PBCCH_Location_SI13		not present if sl13_Mask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellSelection_Cell3			
Group :			
Structured Type : CellSelection			
Derivation Path :			
Encoding Variation :			
Comments : 3GPP TS 44.060 clause 11.2.20			
Element Name	Element Value	Element Encoding	Comments
bSIC	'001101'B		Normal reselection
cELL_BAR_ACCESS_2	'0'B		
eXC_ACC	'0'B		same routing area
sAME_RA_AS_SERVING_CELL	'1'B		
gPRS_PwrMask	'1'B		GPRS_RXLEV_ACCESS_MIN present
gPRS_RXLEV_ACCESS_MIN	'010110'B		not present if gPRS_PwrMask = 0
gPRS_MS_TXPWR_MAX_CCH	'01010'B		-89 dBm
gPRS_SelectMask	'1'B		not present if gPRS_PwrMask = 0
gPRS_TEMPORARY_OFFSET	'000'B		GPRS_TEMPORARY_OFFSET present
gPRS_PENALTY_TIME	'00000'B		not present if gPRS_SelectMask = 0
gPRS_ReselectMask	'1'B		GPRS_RESELECT_OFFSET present
gPRS_RESELECT_OFFSET	'10000'B		not present if gPRS_ReselectMask = 0
hCS_Mask	'1'B		HCS params present
hCS_Params	c_HCS('001'B,'10100'B)		not present if hCS_Mask = 0
sl13_Mask	'1'B		not present if sl13_Mask = 0
sl13_PBCCH_LOCATION	c_SI13PBCCH_Location_SI13		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellSelParam(p_CellReselHysteresis: B3; p_MS_TXPWR_MAX_CCH: B5; p_aCS : B1; p_nECI : B1; p_RXLEV_ACCESS_MIN:B6) Group : Structured Type : CellSelParam Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
cellReselHysteresis	p_CellReselHysteresis		cell reselected hysteresis
mS_TXPWR_MAX_CCH	p_MS_TXPWR_MAX_CCH		MS maximum TX power for CCH
acs	p_aCS		additional reselect parameter indicator
neci	p_nECI		half rate support
rXLEV_ACCESS_MIN	p_RXLEV_ACCESS_MIN		MS minimum received signal level
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_ChannelDescr (p_ARFCN : B10; p_TSC : B3) Group : Structured Type : ChannelDescr Derivation Path : Encoding Variation : Comments : Channel description 3GPP TS 44.018 clause 10.5.2.5			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		'01100100'B
cht_schn	'00101'B		channel type and TDMA offset
tn	'000'B		timeslot number
tsc	p_TSC		training sequence code
hch	tsc_RR_HopOff		hch = 1 indicating hopping channel
maio	OMIT		mobile allocation index offset – hopping
hsn	OMIT		hopping sequence number – hopping
spr	'00'B		'00'B – non hopping
arfcn	p_ARFCN		absolute RF channel number – non hopping
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ChMode(p_Mode : B8) Group : Structured Type : ChMode Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei mode	OMIT p_Mode		'01100011'B
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ChSpecificPara(p_DedChInfo:DedCH_Info;p_CCCH_Info: CCCH_Info;p_PCCCH_Info: PCCCH_Info; p_PBCCH_Info: PBCCH_Info) Group : Structured Type : ChannelSpecificInfo Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
dedCH_Info	p_DedChInfo		parameters for dedicated channel. valid for combinations: 1, 2, 3, 5, 7, 8, 9, 10
cCCH_Info	p_CCCH_Info		parameters for common control channels: PCH, SCH, ... valid for combinations: 4, 5, 6
pCCCH_Info	p_PCCCH_Info		parameters for packet common control channels: PCCCH, PPCH, ... valid for combinations: 11, 12
pBCCH_Info	p_PBCCH_Info		parameters for packet broadcast channel: PBCCH. valid for combination: 11
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CipherModeSettingGSM Group : Structured Type : CipherModeSetting Derivation Path : Encoding Variation : Comments : Cipher is on, cipher algorithm is specified by PIXIT.			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		'1001'B
algld	px_GSM_CipherAlg		algorithm identifier
startingCiph	px_GSM_CipheringOnOff		starting ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CipherModeSettingGSM900A Group : Structured Type : CipherModeSetting Derivation Path : Encoding Variation : Comments : Cipher is on, cipher algorithm is specified by PIXIT.			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		'1001'B
algld	px_GSM_CipherAlg		algorithm identifier
startingCiph	px_GSM_CipheringOnOff		starting ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CipherModeSettingGSM1800A Group : Structured Type : CipherModeSetting Derivation Path : Encoding Variation : Comments : Cipher is on, cipher algorithm is specified by PIXIT.			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		'1001'B
algld	px_GSM_CipherAlg		algorithm identifier
startingCiph	px_GSM_CipheringOnOff		starting ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CipherModeSettingGSM450A Group : Structured Type : CipherModeSetting Derivation Path : Encoding Variation : Comments : Cipher is on, cipher algorithm is specified by PIXIT.			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		'1001'B
algld	px_GSM_CipherAlg		algorithm identifier
startingCiph	px_GSM_CipheringOnOff		starting ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CipherModeSettingGSM480A Group : Structured Type : CipherModeSetting Derivation Path : Encoding Variation : Comments : Cipher is on, cipher algorithm is specified by PIXIT.			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		'1001'B
algld	px_GSM_CipherAlg		algorithm identifier
startingCiph	px_GSM_CipheringOnOff		starting ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CompactNeighCellParams2List_OMIT Group : Structured Type : CompactNeighCellParams2List Derivation Path : Encoding Variation : Comments : this type definition is {1 < COMPACT Neighbour Cell params 2 struct>}**0 The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more neighbourCellParam if more than 1 neighbourCellParam are required in the constraint.			
Element Name	Element Value	Element Encoding	Comments
prefix1	OMIT		not present if prefix1 = 0 not present if prefix1 = 0. If present, always = 0 indicating the end of the repetition
compactNeighCellParam2	OMIT		
endingRepetition	'0'B		
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.21			

Structured Type Constraint Declaration			
Constraint Name : c_ControlChDescr(p_ATT : B1; p_BS_AG_BLKs_RES, p_CCCH_CONF, p_BS_PA_MFRMS: B3; p_CBQ2 : B2; p_T3212:O1) Group : Structured Type : ControlChDescr Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
mSCRelease	'1'B		release 99 onwards
att	p_ATT		attach-detach allowed
bS_AG_BLKs_RES	p_BS_AG_BLKs_RES		base station access grant blocks reservation
cCCH_CONF	p_CCCH_CONF		CCCH configuration
spareBits	'000'B		spare bits
cBQ2	p_CBQ2		cell bar qualify 2
bS_PA_MFRMS	p_BS_PA_MFRMS		number of multiframes for paging request
t3212	p_T3212		t3212 value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_DedicatedModeOrTBF Group : Structured Type : DedicatedModeOrTBF Derivation Path : Encoding Variation : Comments : Reference : 3GPP TS 44.018 clause 10.5.2.25b			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
spareBit	'0'B		always = 0
twoMsgAssig	'0'B		two message assignment
downlink	'0'B		down link assignement
tBForDedicated	'0'B		TBF or dedicated mode
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_DynamicAllocation Group : Structured Type : DynamicAllocation Derivation Path : Encoding Variation : Comments : It defines all the necessary parameters for dynamic allocation for the TBF.			
Element Name	Element Value	Element Encoding	Comments
extendedAlloc	'0'B		0 – dynamic allocation; 1 – extended dynamic allocation
uSFGranularity	'0'B		0 – one block; 1 – four blocks
physicalChId	tsc_PhyCh1		
tN0	FALSE		TRUE – time slot 0 is allocated; FALSE – not allocated
uSF_TN0	–		USF value for slot 0
tN1	FALSE		TRUE – time slot 1 is allocated; FALSE – not allocated
uSF_TN1	–		USF value for slot 1
tN2	FALSE		TRUE – time slot 2 is allocated; FALSE – not allocated
uSF_TN2	–		USF value for slot 2
tN3	FALSE		TRUE – time slot 3 is allocated; FALSE – not allocated
uSF_TN3	–		USF value for slot 3
tN4	TRUE		TRUE – time slot 4 is allocated; FALSE – not allocated
uSF_TN4	tsc_DefUSF		USF value for slot 4
tN5	FALSE		TRUE – time slot 5 is allocated; FALSE – not allocated
uSF_TN5	–		USF value for slot 5
tN6	FALSE		TRUE – time slot 6 is allocated; FALSE – not allocated
uSF_TN6	–		USF value for slot 6
tN7	FALSE		TRUE – time slot 7 is allocated; FALSE – not allocated
uSF_TN7	–		USF value for slot 7
Detailed Comments : The uSF_TNx field is not applicable when tNx = FALSE.			

Structured Type Constraint Declaration			
Constraint Name : cr_EDGE_Struct_Any Group : Structured Type : EDGE_Struct Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
modulationCapability	?		
pwrMask1	?		
eDGE_RF_PowerCapability 1	*		not present if pwrMask1 = 0
pwrMask2	?		
eDGE_RF_PowerCapability 2	*		not present if pwrMask2 = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ExtInfo Group : Structured Type : ExtInfo_NonGPRSCellOptions Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extLength	'000001'B		
eCSC	'1'B		
ECSR3G	'1'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ExtMeasParams Group : Structured Type : ExtMeasParam Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extMeasurementOrder	'00'B		
eM1	OMIT		present if extMeasurementOrder = '01'B
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_FDD_Descr(p_ARFCN: B14; p_ScrnCode : BITSTRING) Group : Structured Type : UTRAN_FDD_Descr Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
bandwidthMask	'0'B		not present if bandwidthMask = 0 value = 1 if present
bandwidthFDD	–		
prefix1	'1'B		value = 1 if present
repeatedUTRAN_FDD_NeighbourCells1	c_G_FDD_NeighCell1(p_ARFCN, p_ScrnCode)		
prefix2	–		value = 1 if present
repeatedUTRAN_FDD_NeighbourCells2	–		
endingRepetition	'0'B		always = '0'B indicating the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_FDD_NeighCell1(p_ARFCN: B14; p_ScrnCode : BITSTRING)			
Group :			
Structured Type : RepeatedUTRAN_FDD_NeighCells			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
arfcnIndexMask	'0'B		length of this bitstring = p(nR_OF_FDD_CELLS)
fDD_ARFCN	p_ARFCN		
fDD_Indic0	'0'B		
nR_OF_FDD_CELLS	'00001'B		
fDD_CELL_INFORMATION	p_ScrnCode		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_FreqInfoBCCH(p_ARFCN : B10) Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		h='1'B: hopping channel; h='0'B: non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B, if h = '0'B, otherwise OMIT
maio	OMIT		mobile allocation index offset if h = '1'B, otherwise OMIT
hsn	OMIT		hopping sequence number if h = '1'B, otherwise OMIT
arfcn	p_ARFCN		absolute RF channel number if h = '0'B, otherwise OMIT
hoppingFreqList	OMIT		hopping frequency list if h='1'B, otherwise OMIT. the definition see 3GPP TS 44.018 section 10.5.2.13
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GenCellSel Group : Structured Type : GenCellSel Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
gPRS_CELL_RESELECT_HYSTERESIS	'000'B		0 dB
c31_HYST	'0'B		Not used in C31
c32_QUAL	'0'B		
rANDOM_ACCESS_RETRY	'0'B		No access to other cells
t_ReselMask	'1'B		
t_RESEL	'001'B		not present if t_ReselMask = 0 10 seconds
rA_ReselectHysteresisMask	'1'B		
rA_RESELECT_HYTERESIS	'000'B		not present if rA_ReselectHysteresisMask = 0 0 dB
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GlobalPowerCtrlParams Group : Structured Type : GlobalPowerControlParameters Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
aLPHA	'0000'B		
t_AVG_W	'00000'B		
t_AVG_T	'00000'B		
pb	'0110'B		
pC_MEAS_CHAN	'0'B		
iNT_MEAS_CHANNEL_LIS	'0'B		
T_AVAIL	'0110'B		
n_AVG_I	'0110'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_CellOptionsPSI1(p_NMO : B2) Group : Structured Type : GPRS_CellOptions Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
nMO	p_NMO		network operation mode 2
t3168	'011'B		2 second
t3192	'010'B		1.5 second
dRX_TIMER_MAX	'000'B		non-DRX not supported, 0 second
aCCESS_BURST_TYPE	'1'B		11 bits
cONTROL_ACK_TYPE	'1'B		RLC/MAC control block
bS_CV_MAX	'0111'B		7
pAN_Mask	'1'B		for R99
pAN_DEC	'001'B		
pAN_INC	'001'B		
pAN_MAX	'000'B		
optionalExtMask	'1'B		
extensionLength	'000011'B		
extensionInfo	c_GPRS_CellOptionsExtension		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_CellOptionsExtension Group : Structured Type : ExtensionInfo Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extensionMask	'0'B		EGPRS not supported
eGPRS_PACKET_CHANNEL_REQUEST	OMIT		EGPRS not supported
bEP_PERIOD	OMIT		EGPRS not supported
pFC_FEATURE_MODE	'0'B		packet context procedure not supported
dTM_SUPPORT	'0'B		DTM not supported
bSS_PAGING_COORDINATION	'0'B		CS paging coordination not supported
cCN_ACTIVE	OMIT		R4 extension
nW_EXT_UTBF	OMIT		
spareBit	OMIT		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_MobileAllocationLists(p_mA_NUM:B4;p_mA_LENGTH:B6;p_mA_BITMAP:BITSTRING) Group : Structured Type : GPRS_MobileAllocationLists Derivation Path : Encoding Variation : Comments : The definition in CSN.1 is {1 < GPRS Mobile Allocations struct >}*0, so the prefix bit and following structure may repeat infinite times, this struct definition shall be changed if more than 5 GPRSMobileAllocation are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.19			
Element Name	Element Value	Element Encoding	Comments
prefix1	'1'B		always = 1
gPRS_MobileAllocation1	c_GPRSMobileAllocations(p_mA_NUM,p_mA_LENGTH,p_mA_BITMAP)		
prefix2	OMIT		always = 1
gPRS_MobileAllocation2	OMIT		
prefix3	OMIT		always = 1
gPRS_MobileAllocation3	OMIT		
prefix4	OMIT		always = 1
gPRS_MobileAllocation4	OMIT		
prefix5	OMIT		always = 1
gPRS_MobileAllocation5	OMIT		
endingRepetition	'0'B		Its value is always zero and indicating the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRSMobileAlloc(p_mA_LENGTH : B6; p_mA_BITMAP : BITSTRING) Group : Structured Type : GPRSMobileAlloc Derivation Path : Encoding Variation : Comments : Reference: 3GPP TS 44.060 clause 12.10a Values are taken from TS 51010 Section 40 defaults.			
Element Name	Element Value	Element Encoding	Comments
hSN	'000000'B		3GPP TS 45.002
rFL_Mask	'0'B		
rFL_NumberList	–		not present if rFL_Mask = 0
mA_ARFCN_Mask	'0'B		
mA_LENGTH	p_mA_LENGTH		not present if mA_ARFCN_Mask = 1
mA_BITMAP	p_mA_BITMAP		not present if mA_ARFCN_Mask = 1
aRFCN_IndexMask	–		not present if mA_ARFCN_Mask = 0
aRFCN_IndexList	–		not present if mA_ARFCN_Mask = 0 or aRFCN_IndexMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRSMobileAllocations(p_mA_NUM:B4;p_mA_LENGTH:B6;p_mA_BITMAP:BITSTRING) Group : Structured Type : GPRSMobileAllocations Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
mA_NUMBER	p_mA_NUM		
GPRSMobileAllocation	c_GPRSMobileAlloc(p_mA_LENGTH,p_mA_BITMAP)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRSMobAllocListNone Group : Structured Type : GPRS_MobileAllocationLists Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
prefix1	–		always = 1
gPRS_MobileAllocation1	–		
prefix2	–		always = 1
gPRS_MobileAllocation2	–		
prefix3	–		always = 1
gPRS_MobileAllocation3	–		
prefix4	–		always = 1
gPRS_MobileAllocation4	–		
prefix5	–		always = 1
gPRS_MobileAllocation5	–		
endingRepetiton	'0'B		Its value is always zero and indicating the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_PowerControlParam Group : Structured Type : GPRS_PowerControlParam Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
aLPHA	'0000'B		
t_AVG_W	'01100'B		
t_AVG_T	'01100'B		
pC_MEAS_CHAN	'0'B		BCCH
n_AVG_I	'0111'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_HCS(p_priorityClass:B3;p_hCS_THR:B5) Group : Structured Type : HCS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
priorityClass	p_priorityClass		
hCS_THR	p_hCS_THR		-110 dBm
Detailed Comments : 3GPP TS 44.060 clause 11.2.20			

Structured Type Constraint Declaration			
Constraint Name : c_HoppingPCCCHCarrierList(p_mAIO:B6;p_TS_Allocation:B8) Group : Structured Type : HoppingPCCCHCarrierList Derivation Path : Encoding Variation : Comments : The definition of this type is <Hopping PCCCH Carriers Lists struct> ::= {1<Hopping PCCCH Carriers struct>}**0. The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more hoppingPCCCHCarriers if more 3 hoppingPCCCHCarriers are required in the constraint.			
Element Name	Element Value	Element Encoding	Comments
prefixBit1	'1'B		
hoppingPCCCHCarriers1	c_HoppingPCCCHCarriers(p_mAIO,p_TS_Allocation)		not present if prefixBit1 = 0
prefixBit2	OMIT		
hoppingPCCCHCarriers2	OMIT		not present if prefixBit2 = 0
prefixBit3	OMIT		
hoppingPCCCHCarriers3	OMIT		not present if prefixBit3 = 0
endingBit	'0'B		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Constraint Declaration			
Constraint Name : c_HoppingPCCCHCarriers(p_mAIO:B6;p_TS_Allocation:B8) Group : Structured Type : HoppingPCCCHCarriers Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
mAIO	p_mAIO		
timeslotAllocation	p_TS_Allocation		
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Constraint Declaration			
Constraint Name : c_G_IARO Group : Structured Type : IARO Derivation Path : Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.16			
Element Name	Element Value	Element Encoding	Comments
constructMask	OMIT		
compressInterRATHO	OMIT		present if constructMask = LL
reservMask1	OMIT		present if constructMask = LH
reservMask2	OMIT		present if reservMask1 = 0
eGPRS_UplinkAssign	OMIT		not present if reservMask2 = 1 or reservMask1 = 1 or constructMask <> LH
lengthOfFreqParam	OMIT		present if constructMask = HL
freqParam_bt	OMIT		frequency parameters before time not present if lengthOfFreqParam = 0
compressInterRATHO1	OMIT		present if constructMask = HL
mask1	OMIT		present if constructMask = HH
mask2	OMIT		
packetUplinkAssign	OMIT		not present if mask1 = 1 or mask2 = 1 or constructMask <> HH
packetDownlinkAssign	OMIT		not present if mask1 = 1 or mask2 = 0 or constructMask <> HH
secondPacketAssign	OMIT		present if mask1 = 1 and constructMask = HH
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_IARO_PDA(p_TLLI :O4; p_Gamma : B5) Group : Structured Type : IARO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
constructMask	'11'B		
compressInterRATHO	–		present if constructMask = LL
reservMask1	–		present if constructMask = LH
reservMask2	–		present if reservMask1 = 0
eGPRS_UplinkAssign	–		not present if reservMask2 = 1 or reservMask1 = 1 or constructMask <> LH
lengthOfFreqParam	–		present if constructMask = HL
freqParam_bt	–		frequency parameters before time not present if lengthOfFreqParam = 0
compressInterRATHO1	–		present if constructMask = HL
mask1	'0'B		present if constructMask = HH
mask2	'1'B		
packetUplinkAssign	OMIT		not present if mask1 = 1 or mask2 = 1 or constructMask <> HH
packetDownlinkAssign	c_PktDownlinkAss_IARO(p_TLLI, p_Gamma)		not present if mask1 = 1 or mask2 = 0 or constructMask <> HH
secondPacketAssign	OMIT		present if mask1 = 1 and constructMask = HH
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_IARO_PUA(p_Gamma : B5; p_StartTime : B16) Group : Structured Type : IARO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
constructMask	'11'B		
compressInterRATHO	–		present if constructMask = LL
reservMask1	–		present if constructMask = LH
reservMask2	–		present if reservMask1 = 0
eGPRS_UplinkAssign	–		not present if reservMask2 = 1 or reservMask1 = 1 or constructMask <> LH
lengthOfFreqParam	–		present if constructMask = HL
freqParam_bt	–		frequency parameters before time not present if lengthOfFreqParam = 0
compressInterRATHO1	–		present if constructMask = HL
mask1	'0'B		present if constructMask = HH
mask2	'0'B		
packetUplinkAssign	c_PktUplinkAss_IARO(p_Gamma, p_StartTime)		not present if mask1 = 1 or mask2 = 1 or constructMask <> HH
packetDownlinkAssign	OMIT		not present if mask1 = 1 or mask2 = 0 or constructMask <> HH
secondPacketAssign	OMIT		present if mask1 = 1 and constructMask = HH
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LAI(p_PLMN:O3; p_LAC: O2) Group : Structured Type : LocAreald_v Derivation Path : Encoding Variation : Comments : without IEI			
Element Name	Element Value	Element Encoding	Comments
plmn	p_PLMN		MCC + MNC
lac	p_LAC		location area code
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LLC_SAPI_11 Group : Structured Type : LLC_SAPI_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare	'0000'B		
ILC_SAPI_Value	'1011'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LSA_ID_Info_OMIT Group : Structured Type : LSA_ID_Info Derivation Path : Encoding Variation : Comments : The definition is < LSA ID Information ststruct> ::= {1 {0 <LSA_ID : bit(24)> | 1 <ShortLSA_ID : (10)>}}**0, so the TTCN definition shall be modified to include more ISA_ID if the constraint requires more than 5 ISA_ID. Reference : 3GPP TS 44.060 clause 12.28			
Element Name	Element Value	Element Encoding	Comments
prefixBit1	OMIT		value always equal to "1"
ISA_ID_Mask1	OMIT		
ISA_ID1	OMIT		not present if ISA_ID_Mask1 = 1
ShortLSA_ID1	OMIT		not present if ISA_ID_Mask1 = 0
prefixBit2	OMIT		value always equal to "1"
ISA_ID_Mask2	OMIT		
ISA_ID2	OMIT		not present if ISA_ID_Mask2 = 1
ShortLSA_ID2	OMIT		not present if ISA_ID_Mask2 = 0
prefixBit3	OMIT		value always equal to "1"
ISA_ID_Mask3	OMIT		
ISA_ID3	OMIT		not present if ISA_ID_Mask3 = 1
ShortLSA_ID3	OMIT		not present if ISA_ID_Mask3 = 0
prefixBit4	OMIT		value always equal to "1"
ISA_ID_Mask4	OMIT		
ISA_ID4	OMIT		not present if ISA_ID_Mask4 = 1
ShortLSA_ID4	OMIT		not present if ISA_ID_Mask4 = 0
prefixBit5	OMIT		value always equal to "1"
ISA_ID_Mask5	OMIT		
ISA_ID5	OMIT		not present if ISA_ID_Mask4 = 1
ShortLSA_ID5	OMIT		not present if ISA_ID_Mask4 = 0
endBit	'0'B		value always equal to "0" to indicate the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_MeasResults_Any Group : Structured Type : MeasResults Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
ba_used	?		bcch allocation used
dtx_used	?		dtx was used
rxlev_fsc	?		received signal strength on the full serving cell
ba3G_used	?		3G bcch allocation used
meas_valid	?		measurement results valid
rxlev_ssc	?		received signal strength on a subset of the serving cell
spareBit1	?		spare bit
rxqual_fsc	?		received signal quality on the full serving cell
rxqual_ssc	?		received signal quality on a subset of the serving cell
no_neighCells	?		number of neighbouring cells (nc)
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	?		bcch frequency position of nc1
bsic_nc1	?		base station identity code of nc1
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	?		bcch frequency position of nc2
bsic_nc2	?		base station identity code of nc2
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	?		bcch frequency position of nc3
bsic_nc3	?		base station identity code of nc3
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	?		bcch frequency position of nc4
bsic_nc4	?		base station identity code of nc4
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	?		bcch frequency position of nc5
bsic_nc5	?		base station identity code nc5

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	?		bcch frequency position of nc6
bsic_nc6	?		base station identity code of nc6
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_MSCLSMK3_Any Group : Structured Type : MSCLSMK3 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00100000'B		'00100000'B
iel	?		OCTETSTRING [1]
spareBit	'0'B		spare bit
multibandSupported	?		
a5_7	?		a5/7 algorithm supported
a5_6	?		a5/6 algorithm supported
a5_5	?		a5/5 algorithm supported
a5_4	?		a5/4 algorithm supported
associatedRadioCapabilty2	*		present if multibandSupported = 101 or 110
spareBits1	*		present if multibandSupported = 001 or 010 or 100
associatedRadioCapabilty1	*		present if multibandSupported = 001 or 010 or 100 or 101 or 110
maskBit1	?		
rGSM_RadioCapability	*		R-GSM band associated radio capability. not present if maskBit1 = 0
maskBit2	?		
multiSlotClass	*		multi slot class. not present if multiSlotClass = 0
uCS2Treatment	?		
extMeasurementCapability	?		extended measurement capability
maskBit3	?		
msMeasurementCapability	cr_MS_MeasCapability_Any IF_PRESENT		MS measurement capability not present if maskBit3 = 0
maskBit4	?		
msPositioningMethod	*		MS positioning method capability not present if maskBit4 = 0
maskBit5	?		
eEDGE_MultiSlot	*		EDGE multi slot capability not present if maskBit5 = 0
maskBit6	?		
eEDGE_Struct	cr_EDGE_Struct_Any IF_PRESENT		EDGE struct not present if maskBit6 = 0
maskBit7	?		
gSM400BandsSupported	*		not present if maskBit7 = 0

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
gSM400AssociatedRadioCa pability	*		not present if gSM400BandsSupported = 00 or maskBit7 = 0
maskBit8	?		
gSM850AssociatedRadiioCa pability	*		not present if maskBit8 = 0
maskBit9	?		
pCS1900AssociatedRadiioC apability	*		not present if maskBit9 = 0
uMTS_FDD_RAT_Capability	?		
uMTS384TDD_RAT_Capabili ty	?		
cDMA2000_RAT_Capability	?		
maskBit10	?		
dTM_GPRS_MultiSlotSubcla ss	*		not present if maskBit10 = 0
singleSlotDTM	*		not present if maskBit10 = 0
maskBit11	*		not present if maskBit10 = 0
dTM_EGPRS_MultiSlorSubc lass	*		not present if maskBit10 = 0 or maskBit11 = 0
maskBit12	?		
singleBandSupport	*		not present if maskBit12 = 0
maskBit13	*		
gSM700AssociatedRadioCa pability	*		not present if maskBit13 = 0
uMTS128TDD_RAT_Capabili ty	*		
gERANFeatPack1	*		
mask14	*		
extDTM_GPRS_MultiSlotSu bclass	*		not present if maskBit14 = 0
etxDTM_EGPRS_MultiSlotS ubclass	*		not present if maskBit14 = 0
mask15	*		
highMultislotCap	*		not present if mask15 = 0
mask16	*		
gERANluModeLength	*		not present if maskBit16 = 0
gERANluModeSpareBits	*		not present if maskBit16 = 0
gERANFeatPack2	*		
gMSKMultislotPowerProfile	*		
pSKMultislotPowerProfile	*		
spareBits2	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_MS_MeasCapability_Any Group : Structured Type : MS_MeasCapability Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
sMS_VALUE	?		
sM_VALUE	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_MobileAlloc Group : Structured Type : MobileAlloc Derivation Path : Encoding Variation : Comments : Mobile allocation 3GPP TS 44.018 clause 10.5.2.21			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		'01110010'B
iel	'00'O		'00'O for non hopping
mac_8n	OMIT		mac64 – mac57
mac_7n	OMIT		mac56 – mac49
mac_6n	OMIT		mac48 – mac41
mac_5n	OMIT		mac40 – mac33
mac_4n	OMIT		mac32 – mac25
mac_3n	OMIT		mac24 – mac17
mac_2n	OMIT		mac16 – mac9
mac_1n	OMIT		mac8 – mac1
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NC_MeasParams Group : Structured Type : NC_MeasParams Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
nETWORK_CONTROL_ORDER	'00'B		
mask	'1'B		
nC_NON_DRX_PERIOD	'111'B		not present if mask = 0
nC_REPORTING_PERIOD_I	'111'B		not present if mask = 0
nC_Reporting_PERIOD_T	'011'B		not present if mask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighCellParam(p_StartFreq:B10;p_CellSelection_Cell1:CellSelection;p_FreqDiffLen:B3;p_FreqDiff:BITSTRING;p_CellSelection_Cell2:CellSelection) Group : Structured Type : NeighCellParam Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
sTART_FREQUENCY	p_StartFreq		
cellSelectionParams	p_CellSelection_Cell1		
nR_OF_REMAINING_CELLS	'0001'B		
fREQ_DIFF_LENGTH	p_FreqDiffLen		
fREQUENCY_DIFF1	p_FreqDiff		the length of this field is 1 + Val(fREQUENCY_DIFF_LENGTH)
cellSelectionParams1	p_CellSelection_Cell2		
fREQUENCY_DIFF2	OMIT		the length of this field is 1 + Val(fREQUENCY_DIFF_LENGTH)
cellSelectionParams2	OMIT		
Detailed Comments : Reference: 3GPP TS 44.060 clause 11.2.20. More fREQUENCY_DIFF + cellSelectionParams shall be added into this type definition if nR_OF_REMAINING_CELLS is greater than 2. In a constraint the value of nR_OF_REMAINING_CELLS indicates the number of repetitions of fREQUENCY_DIFF and cellSelectionParams			

Structured Type Constraint Declaration			
Constraint Name : c_NeighCellParams2List_OMIT Group : Structured Type : NeighCellParams2List Derivation Path : Encoding Variation : Comments : this type definition is {1 < Neighbour Cell params 2 struct>}**0 The prefix bit and following structure may repeat infinite times, so this TTCN definition shall be modified to include more neighbourCellParam if more than 1 neighbourCellParam are required in the constraint.			
Element Name	Element Value	Element Encoding	Comments
prefix1	OMIT		value = 1 if present
neighCellParam2_1	OMIT		
endingRepetition	'0'B		always = 0 indicating the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NeighCellParamsList(p_StartFreq:B10;p_CellSelection_Cell1:CellSelection;p_FreqDiffLen:B3;p_FreqDiff:BITSTRING;p_CellSelection_Cell2:CellSelection) Group : Structured Type : NeighCellParamsList Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
prefix1	'1'B		always = 1 indicating the start of Neighbour Cell params struct
neighCellParam1	c_NeighCellParam(p_StartFreq,p_CellSelection_Cell1,p_FreqDiffLen,p_FreqDiff,p_CellSelection_Cell2)		
endingBit	'0'B		always = 0 indicating the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_NonGPRSCellOptions Group : Structured Type : NonGPRSCellOptions Derivation Path : Encoding Variation : Comments : 3GPP TS 44.060 clause 12.27			
Element Name	Element Value	Element Encoding	Comments
aTT	'1'B		MS shall apply IMSI attach and detach procedures
t3212Mask	'1'B		
t3212	'00000000'B		not present if t3212Mask = 0
nECI	'1'B		Timeout value
pWRC	'0'B		New establishment causes supported
dTX	'10'B		Power control indicator
rADIO_LINK_TIMEOUT	'0001'B		value 8
bS_AG_BLKES_RES	'010'B		2 reserved
cCCH_CONF	'001'B		
bS_PA_MFRMS	'100'B		6 multiframes
mAX_RETRANS	'00'B		1 retransmission allowed
tX_INTEGER	'0010'B		5 slots used for spread transmission
eC	'0'B		emergency call allowed
mS_TXPWR_MAX_CCCH	'01010'B		
extensionBitsMask	'1'B		
extensionBits	c_ExtInfo		not present if extensionBitsMask = 0. 3GPP TS 44.060 clause 12.26
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PacketChDescr(p_ARFCN : B10) Group : Structured Type : PacketChDescr Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
chType	'00001'B		channel type
tN	'100'B		time slot
tSC	'101'B		training sequence code
maskBit1	'0'B		
maskBit2	'0'B		not present if maskBit1 = 1.
spareBit1	'0'B		not present if maskBit1 = 1 or maskBit2 = 1
aRFCN	p_ARFCN		not present if maskBit1 = 1 or maskBit2 = 1
spareBit	–		not present if maskBit1 = 1 or maskBit2 = 0
mAIO	–		not present if maskBit1 = 1 or maskBit2 = 0
mA_NumberInd	–		
maskBit3	–		
spareBits	–		not present if maskBit1 = 1 or maskBit2 = 0 or maskBit3 = 1
CHANGE_MARK_1	–		not present if maskBit1 = 1 or maskBit2 = 0 or maskBit3 = 0
mIAO	–		not present if maskBit1 = 0
hSN	–		not present if maskBit1 = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PacketTimingAdvance Group : Structured Type : PacketTimingAdvance Derivation Path : Encoding Variation : Comments : 3GPP TS 44.060 clause 12.12 Values are taken from 51010 clause 40.2.3.4			
Element Name	Element Value	Element Encoding	Comments
taValueMask	'1'B		
timingAdvanceValue	'111110'B		not present if taValueMask = 0 30 bit periods
taIndexMask	'0'B		
timingAdvanceIndex	OMIT		not present if taIndexMask = 0
timingAdvanceSlotNumber	OMIT		not present if taIndexMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_PageModelE Group : Structured Type : PageModelE Derivation Path : Encoding Variation : Comments : Page mode 3GPP TS 44.018 clause 10.5.2.26			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		
sprb	'00'B		spare bits
pgm	tsc_RR_PagingNormal		page mode
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCH_Descr_Def Group : Structured Type : PBCCH_Descr Derivation Path : Encoding Variation : Comments : values from TS 51.010–1 v.5.5.0 subclause 40.2.1.1.1			
Element Name	Element Value	Element Encoding	Comments
pb	'0110'B		–12 dB
tSC	'101'B		
tN	'100'B		Timeslot 4
carrierMask1	'1'B		
carrierMask2	OMIT		not BCCH carrier
aRFCN	OMIT		ARFCN not present
mAIO	'000010'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCHFreqInfo(p_FreqList : FreqListNoIEI) Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
h	'1'B		h='1'B: hopping channel; h='0'B: non-hopping channel
spr	'000'B		'000'B
spr1	OMIT		'00'B, if h = '0'B, otherwise OMIT
maio	'000010'B		mobile allocation index offset if h = '1'B, otherwise OMIT
hsn	'000000'B		hopping sequence number if h = '1'B, otherwise OMIT
arfcn	OMIT		absolute RF channel number if h = '0'B, otherwise OMIT
hoppingFreqList	p_FreqList		hopping frequency list if h='1'B, otherwise OMIT.
			the definition see 3GPP TS 44.018 section 10.5.2.13
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PBCCH_Info_Def(p_LowRate : B6) Group : Structured Type : PBCCH_Info Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
pSI1_REPEAT_PERIOD	'0010'B		The repeat period of packet system information Type 1
pSI_COUNT_HR	'0011'B		The number of PSI message instances sent with high repetition rate. See 3GPP TS 44.060 section 11.2.18
pSI_COUNT_LR	p_LowRate		The number of PSI message instances sent with low repetition rate. See 3GPP TS 44.060 section 11.2.18
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCCCH_DescrListNone Group : Structured Type : PCCCH_DescriptionList Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
prefix1	–		value = 1 if present
pCCCHDescription1	–		
endingRepetition	'0'B		the value of this bit is always zero to indicate the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCCCH_DescriptionList_Hopping(p_MA_Number:B4;p_mAIO:B6;p_TS_Allocation:B8) Group : Structured Type : PCCCH_DescriptionList Derivation Path : Encoding Variation : Comments : The definition of this type is <PCCCH Description Lists struct> ::= {1 <PCCCH Description struct>}**0, so the prefix bit and following structure may repeat infinite times. This TTCN definition shall be modified to include more pCCCHDescription if more than 1 pCCCHDescription are required in the constraint.			
Element Name	Element Value	Element Encoding	Comments
prefix1	'1'B		value = 1 if present
pCCCHDescription1	c_PCCCHDescription_Hopping(p_MA_Number,p_mAIO,p_TS_Allocation)		
endingRepetition	'0'B		the value of this bit is always zero to indicate the end of the structure
Detailed Comments : 3GPP TS 44.060 clause 11.2.19			

Structured Type Constraint Declaration			
Constraint Name : c_PCCCHDescription_Hopping(p_MA_Number:B4;p_mAIO:B6;p_TS_Allocation:B8) Group : Structured Type : PCCCHDescription Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
tSC	'101'B		
nonHoppingPCCCHCarriersMask	'1'B		
nonHoppingPCCCHCarriers	OMIT		not present if nonHoppingPCCCH_Carriers = 1
mA_NUNBER	p_MA_Number		not present if nonHoppingPCCCH_Carriers = 0
hoppingPCCCHCarriers	c_HoppingPCCCHCarrierList(p_mAIO,p_TS_Allocation)		not present if nonHoppingPCCCH_Carriers = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCCCH_Info(p_BS_PBCCH_BLKs : B2; p_BS_PAG_BLKs_RES: B4; p_BS_PRACH_BLKs : B4) Group : Structured Type : PCCCH_Info Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
bS_PBCCH_BLKs	p_BS_PBCCH_BLKs		
bS_PAG_BLKs_RES	p_BS_PAG_BLKs_RES		
bS_PRACH_BLKs	p_BS_PRACH_BLKs		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PCCCHParams Group : Structured Type : PCCCH_OrganisationParameters Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
bS_PCC_REL	'0'B		
bS_PBCCH_BLKs	'10'B		
bS_PAG_BLKs_RES	'0010'B		
bS_PRACH_BLKs	'0001'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PktDownlinkAss_IARO(p_TLLI :O4; p_Gamma : B5) Group : Structured Type : PacketDownlinkAssign Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
tLLI	p_TLLI		TLLI
mask	'1'B		
tFI_Assignment	tsc_downlinkTFI		temporary flow identifier
			not present if mask = 0
rLC_Mode	'0'B		RLC mode
			not present if mask = 0
alphaMask	'1'B		not present if mask = 0.
aLPHA	'0101'B		not present if mask = 0 or alphaMask = 0
gAMMA	p_Gamma		not present if mask = 0
pOLLING	'0'B		not present if mask = 0
tA_VALID	'1'B		not present if mask = 0
taIndexMask	'0'B		
tIMING_ADVANCE_INDEX	–		not present if mask = 0 or taIndexMask = 0
startingTimeMask	'0'B		not present if mask = 0
tBF_STARTING_TIME	OMIT		not present if mask = 0 or startingTimeMask = 0
pwrCtrlMask	'0'B		not present if mask = 0
p0	–		not present if mask = 0 or pwrCtrlMask = 0
spareBit	–		not present if mask = 0 or pwrCtrlMask = 0
pR_MODE	–		not present if mask = 0 or pwrCtrlMask = 0
egprsMask	'0'B		L
eGPRSWindowSize	–		not present if egprsMask = L
linkQualityMeasMode	–		not present if egprsMask = L
bepPriod2Mask	–		not present if egprsMask = L
BepPeriod2	–		not present if egprsMask = L or bepPriod2Mask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PktUplinkAss_IARO(p_Gamma : B5; p_StartTime : B16) Group : Structured Type : PacketUplinkAssign Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
allocMask	'1'B		0 -> indicating single block allocation
tFI_Assignment	tsc_uplinkTFI		temporary flow identifier
pOLLING	'1'B		not present if allocMask = 0
spareBit	'0'B		not present if allocMask = 0
uSF	tsc_DefUSF		not present if allocMask = 0 or fixedAllocMask = 1
uSFGranularity	'0'B		not present if allocMask = 0 or fixedAllocMask = 1
p0Mask	'0'B		not present if allocMask = 0 or fixedAllocMask = 1
p0	–		not present if allocMask = 0 or fixedAllocMask = 1 or p0Mask = 0
pR_MODE	–		not present if allocMask = 0 or fixedAllocMask = 1 or p0Mask = 0
ChannelCodingCommand	'00'B		not present if allocMask = 0
tLLI_BlockChannelCodeing	'1'B		not present if allocMask = 0
alphaMask	'1'B		not present if allocMask = 0
aLPHA	'0101'B		not present if allocMask = 0 or alphaMask = 0
gMMA	p_Gamma		not present if allocMask = 0
taMask	'0'B		not present if allocMask = 0
tIMING_ADVANCE_INDEX	–		not present if allocMask = 0 or taMask = 0
startingTimeMask	'1'B		not present if allocMask = 0
tBF_STARTING_TIME	p_StartTime		not present if allocMask = 0 or startingTimeMask = 0
alpha1Mask	–		present if allocMask = 0
aLPHA1	–		single block allocation not present if allocMask = 1 or alpha1Mask = 0
gMMA1	–		not present if allocMask = 1
prefixBits	–		not present if allocMask = 1
tBF_STARTING_TIME1	–		the value is 01 if present not present if allocMask = 1
p02Mask	–		not present if allocMask = 1
p02	–		not present if allocMask = 1 or p02Mask = L
spareBit2	–		not present if allocMask = 1 or p02Mask = L

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
pR_MODE2	–		not present if allocMask = 1 or p02Mask = L
r99Mask	'0'B		
extRAMask	–		not present if r99Mask = L
extRA	–		not present if r99Mask = L or extRAMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PowerControlParams(p_Gamma : B5) Group : Structured Type : PowerControlParam Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
aLPHA	'0101'B		
gmmaMask0	'0'B		
gMMA_TN0	–		not present if maskTN0 = 0
gmmaMask1	'0'B		
gMMA_TN1	–		not present if maskTN1 = 0
gmmaMask2	'0'B		
gMMA_TN2	–		not present if maskTN2 = 0
gmmaMask3	'0'B		
gMMA_TN3	–		not present if maskTN3 = 0
gmmaMask4	'1'B		
gMMA_TN4	p_Gamma		not present if maskTN4 = 0
gmmaMask5	'0'B		
gMMA_TN5	–		not present if maskTN5 = 0
gmmaMask6	'0'B		
gMMA_TN6	–		not present if maskTN6 = 0
gmmaMask7	'0'B		
gMMA_TN7	–		not present if maskTN7 = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PRACHCtrlParams Group : Structured Type : PRACH_ControlParameters Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
aCC_CONTR_CLASS	'0000000000000000'B		
mAX_RETRANS1	'00'B		
mAX_RETRANS2	'00'B		
mAX_RETRANS3	'00'B		
mAX_RETRANS4	'00'B		
sParameter	'0001'B		
tX_INT	'0010'B		
persistenceLevelMask	'0'B		
pERSISTENCE_LEVEL1	–		not present if persistenceLevelMask = 0
pERSISTENCE_LEVEL2	–		not present if persistenceLevelMask = 0
pERSISTENCE_LEVEL3	–		not present if persistenceLevelMask = 0
pERSISTENCE_LEVEL4	–		not present if persistenceLevelMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PSI2_Instance2_GSM Group : Structured Type : PSI2Info Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
rFL_Contents_Len	tsc_RFLContentsLen_3		Length of RFL contents
rFL_Contents	tsc_PSI2_INST2_RFL_Contents_GSM		Reference : 3GPP TS 44.060 clause 11.2.19 RFL contents
mALen	tsc_MALen_5		Length of GPRS MA contents
mABitmap	tsc_PSI2_MABitmap_GSM		Reference: 3GPP TS 44.060 clause 12.10a GPRS MA bitmap
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RACH_ControlParam(p_MaxRetx: B2; p_TxInteger: B4; p_CellBarAccess: B1; p_Re: B1; p_Acc2: B5;p_EmergCall: B1; p_Acc1:B10) Group : Structured Type : RACHControlParam Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
maxretx	p_MaxRetx		maximum retransmissions
txInteger	p_TxInteger		Tx integer, number of slots to spread transmission
cellBarAccess	p_CellBarAccess		cell barred for access
re	p_Re		call reestablishment allowed
acc_2	p_Acc2		access control class 15–11
ec	p_EmergCall		emergency call allowed
acc_1	p_Acc1		access control class 9–0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ReferenceFreq(p_rFL_NUMBER:B4;p_rFL_Contents_Len:B4;p_rFL_Contents: OCTETSTRING) Group : Structured Type : ReferenceFreq Derivation Path : Encoding Variation : Comments : Reference : 3GPP TS 44.060 clause 11.2.19 rFL_Contents is the value part of "Frequency List" information element, the allowed formats are bit map 0, 1024 range, 512 range, 256 range, 128 range and variable bit map			
Element Name	Element Value	Element Encoding	Comments
rFL_NUMBER	p_rFL_NUMBER		identification of the RFL
lengthOfRFLContents	p_rFL_Contents_Len		IE length = 3
rFL_Contents	p_rFL_Contents		the value part of "Frequency List" information element defined in 3GPP TS 44.018 clause 10.5.2.13
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ReferenceFreqLists(p_rFL_NUMBER:B4;p_rFL_Contents_Len:B4;p_rFL_Contents: OCTETSTRING) Group : Structured Type : ReferenceFreqLists Derivation Path : Encoding Variation : Comments : The definition in CSN.1 is {1 < Reference Frequency struct >}**0, so the prefix bit and following structure may repeat infinite times, this TTCN definition shall be modified to include more ReferenceFreq if more than 5 ReferenceFreq are required in the Constraint. Reference : 3GPP TS 44.060 clause 11.2.19			
Element Name	Element Value	Element Encoding	Comments
prefix1	'1'B		value = 1 if present
referenceFreq1	c_ReferenceFreq(p_rFL_NUMBER,p_rFL_Contents_Len,p_rFL_Contents)		
endingRepetition	'0'B		Value always ZERO, indicates the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RefFreqListNone Group : Structured Type : ReferenceFreqLists Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
prefix1	–		value = 1 if present
referenceFreq1	–		
endingRepetition	'0'B		Value always ZERO, indicates the end of the structure
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RFN_0 Group : Structured Type : RFN Derivation Path : Encoding Variation : Comments : Assign some arbitrary values to the RFN.			
Element Name	Element Value	Element Encoding	Comments
t1_	'00000'B		(FN div 1326) mod 32
t3	'000000'B		FN mod 26
t2	'00000'B		FN mod 51
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_RFN_Omit Group : Structured Type : RFN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
t1_	'11111'B		(FN div 1326) mod 32
t3	'111111'B		FN mod 51
t2	'11111'B		Results in ignoring of RFN by the lower Layer.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_RR_CauNormalevent Group : Structured Type : RR_Cause Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
cause	'00000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_ReqRef (p_RR_RA : INTEGER ; p_RR_RFN : RFN) Group : Structured Type : ReqRef Derivation Path : Encoding Variation : Comments : Request reference 3GPP TS 44.018 clause 10.5.2.30			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
radoAccessInfo	INT_TO_BIT (p_RR_RA , 8)		
fn	p_RR_RFN		ER1978
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH4_Ch(p_CipherMode: CipherModeSetting; p_CipherKey : B64; p_PowerLevel : B5; p_TimingAdvance : B7) Group : Structured Type : DedCH_Info Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
chMode	c_ChMode(tsc_SignallingOnly)		channel mode see 3GPP TS 44.018 section 10.5.2.6
cipherMode	p_CipherMode		cipher mode setting see 3GPP TS 44.018 section 10.5.2.9
cipherKey	p_CipherKey		
powerLevel	p_PowerLevel		power level value used in L1 header
timingAdvance	p_TimingAdvance		timing advance value used in L1 header
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SDCCH8_FreqGSM900 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN =50			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000110010'B		absolute RF channel number = 50
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ServingCellParams Group : Structured Type : ServingCellParams Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cELL_BAR_ACCESS_2	'0'B		Normal reselection
eXC_ACC	'0'B		
gPRS_RXLEV_ACCESS_MIN	'011111'B		-80 dBm
gPRS_MS_TXPWR_MAX_CCH	'01010'B		
hCS_ServingCellParametersMask	'1'B		
hCS_ServingCellParameters	c_HCS('001'B,'00000'B)		not present if hCS_ServingCellParametersMask = 0
mULTIBAND_REPORTING	'00'B		Normal Reporting of six strongest cells
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.20			

Structured Type Constraint Declaration			
Constraint Name : c_SI1_RO(p_BandInd : B1) Group : Structured Type : SI1RO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
mask	'0'B		
nCH_Position	OMIT		not present if mask = L
bandIndicator	p_BandInd		L= DCS1800; H=PCS1900
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI2quaterMeasParams3G_ISHO Group : Structured Type : SI2quaterRO_MeasParamDescr3G Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
qsearch_I	'0111'B		
qsearch_C_Initial	'0'B		
fDDMask	'1'B		
fDD_Qoffset	'1000'B		not present if fDDMask = 0
fDD_REP_QUANT	'0'B		not present if fDDMask = 0
fDD_MULTIRAT_REPORTI NG	'01'B		not present if fDDMask = 0
fDD_Qmin	'000'B		not present if fDDMask = 0
tDDMask	'0'B		
tDD_Qoffset	–		not present if tDDMask = 0
tDD_MULTIRAT_REPORTI NG	–		not present if tDDMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI2quater_3G_1NCell(p_ARFCN: B14; p_ScrnCode : BITSTRING) Group : Structured Type : NeighCellDescr3G Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
indexMask	'0'B		
indexStart3G	–		not present if indexMask = 0
absoluteIndexMask	'0'B		
absoluteIndexStartEMR	–		not present if absoluteIndexMask = 0
fDDMask	'1'B		
uTRAN_FDD_Description	c_G_FDD_Descr(p_ARFCN , p_ScrnCode)		not present if fDDMask = 0
tDDMask	'0'B		
uTRAN_TDD_Description	–		not present if tDDMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI13PBCCH_Location_SI13 Group : Structured Type : SI13PBCCH_Location Derivation Path : Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.37b			
Element Name	Element Value	Element Encoding	Comments
sl13LocationMask	'0'B		SI13 Location
sl13_LOCATION	'0'B		SI13 on BCCH Norm
PBCCH_LOCATION	OMIT		not present if sl13LocationMask = 1
pSI1_REPEAT_PERIOD	OMIT		not present if sl13LocationMask = 0
			not present if sl13LocationMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI3_RO_SI2quater(p_SI2ter : B1) Group : Structured Type : SI3RO Derivation Path : Encoding Variation : Comments : Indicates SI2quater sent on BCCH Norm			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		Cell select parameter mask
cbq	OMIT		not present if cellSelectMask = 0, Cell bar qualify
cellReselectOffset	OMIT		not present if cellSelectMask = 0
temporaryOffset	OMIT		not present if cellSelectMask = 0
penaltyTime	OMIT		not present if cellSelectMask = 0
powerOffsetMask	'0'B		Power offset mask
powerOffset	OMIT		not present if powerOffsetMask = 0
sl2terIndicator	p_SI2ter		no SI 2ter
earlyClassMarkSendingControl	'0'B		
mask3	'0'B		mask bit for scheduling info
schedulingWhere	OMIT		not present if mask3 = 0
mask4	'0'B		mask bit for GPRS indicator
rA_Colour	OMIT		not present if mask4 = 0
sl13Position	OMIT		not present if mask4 = 0
earlyClassMarksendingRestriction3G	'0'B		
mask5	'1'B		mask bit for SI2quaterPosition
sl2quaterPosition	'0'B		not present if mask5 = L
SI13altPosition	OMIT		only present if lu supported in cell
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI3_RO_SI2ter Group : Structured Type : SI3RO Derivation Path : Encoding Variation : Comments : all bits are spare, except SI2ter			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		Cell select parameter mask
cbq	OMIT		not present if cellSelectMask = 0, Cell bar qualify
cellReselectOffset	OMIT		not present if cellSelectMask = 0
temporaryOffset	OMIT		not present if cellSelectMask = 0
penaltyTime	OMIT		not present if cellSelectMask = 0
powerOffsetMask	'0'B		Power offset mask
powerOffset	OMIT		not present if powerOffsetMask = 0
sl2terIndicator	'1'B		SI 2ter
earlyClassMarkSendingControl	'0'B		no ECMS
mask3	'0'B		mask bit for scheduling info
schedulingWhere	OMIT		not present if mask3 = 0
mask4	'0'B		mask bit for GPRS indicator
rA_Colour	OMIT		not present if mask4 = 0
sl13Position	OMIT		not present if mask4 = 0
earlyClassMarksendingRestriction3G	'0'B		
mask5	'0'B		mask bit for SI2quaterPosition
sl2quaterPosition	OMIT		not present if mask5 = 0
SI13altPosition	OMIT		only present if lu supported in cell
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI3_RO_GPRS Group : Structured Type : SI3RO Derivation Path : Encoding Variation : Comments : indicating SI13 is broadcasted. 3GPP TS 51.010 clause 40.2.1.1.1 GPRS supported			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		no optional selection parameters (L= no optional parameter)
cbq	OMIT		not present
cellReselectOffset	OMIT		not present
temporaryOffset	OMIT		not present
penaltyTime	OMIT		not present
powerOffsetMask	'0'B		no optional power offset (L= no power offset)
powerOffset	OMIT		not present
sl2terIndicator	'0'B		no SI 2ter (L=no SI2ter)
earlyClassMarkSendingControl	'1'B		perform early classmark sending (H=allowed)
mask3	'0'B		no system information type 9 (L=no SI9)
schedulingWhere	OMIT		not present
mask4	'1'B		GPRS supported (H=support GPRS)
rA_Colour	'001'B		RA colour
sl13Position	'0'B		SI13 is on BCCH Norm
earlyClassMarkSendingRestriction3G	'1'B		UTRAN classmark change message shall be sent with the Early classmark sending (L= no)
mask5	'0'B		L=no SI2ter
sl2quaterPosition	OMIT		
SI13altPosition	OMIT		only present if lu supported in cell
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI3_RO_Spare Group : Structured Type : SI3RO Derivation Path : Encoding Variation : Comments : all bits are spare, 3GPP TS 51.010 clause 26.6.14.			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		Cell select parameter mask
cbq	OMIT		not present if cellSelectMask = 0, Cell bar qualify
cellReselectOffset	OMIT		not present if cellSelectMask = 0
temporaryOffset	OMIT		not present if cellSelectMask = 0
penaltyTime	OMIT		not present if cellSelectMask = 0
powerOffsetMask	'0'B		Power offset mask
powerOffset	OMIT		not present if powerOffsetMask = 0
sl2terIndicator	'0'B		no SI 2ter
earlyClassMarkSendingControl	'0'B		no ECMS
mask3	'0'B		mask bit for scheduling info
schedulingWhere	OMIT		not present if mask3 = 0
mask4	'0'B		mask bit for GPRS indicator
rA_Colour	OMIT		not present if mask4 = 0
sl13Position	OMIT		not present if mask4 = 0
earlyClassMarksendingRestriction3G	'0'B		
mask5	'0'B		mask bit for SI2quaterPosition
sl2quaterPosition	OMIT		not present if mask5 = 0
SI13altPosition	OMIT		only present if lu supported in cell
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI4_RO_GPRS Group : Structured Type : SI4RO Derivation Path : Encoding Variation : Comments : 3GPP TS 51.010 clause 40.2.1.1.1			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		no optional Cell selection parameter
cbq	OMIT		not present
cellReselectOffset	OMIT		not present
temporaryOffset	OMIT		not present
penaltyTime	OMIT		not present
powerOffsetMask	'0'B		no optional power offset
powerOffset	OMIT		not present if powerOffsetMask = 0
raColourMask	'1'B		GPRS indicator (H)
rA_Colour	'001'B		
sl13Position	'0'B		on BCCH Norm
breakMask	'0'B		L
breakIndicator	'0'B		present if breakMask = L,
			SI4 Rest Octets_S, is not sent in SYSTEM INFORMATION TYPE 7 and 8
IsaParamMask	OMIT		not present
pRIO_THR	OMIT		not present
ISA_OFFSET	OMIT		not present
mccMask	OMIT		not present
mCC	OMIT		not present
nMC	OMIT		not present
cellIDMask	OMIT		not present
cellIdentity	OMIT		not present
IsaMask	OMIT		not present
sl4RO_LSA_ID_Info	OMIT		not present
cBQ3Mask	OMIT		not present if breakMask = L
cBQ3	OMIT		not present if breakMask = L or cBQ3Mask = L
si13altMask	OMIT		not present if breakMask = L or cBQ3Mask = L
si13altPosition	OMIT		not present if breakMask = L or cBQ3Mask = L or si13altMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI4_RO_Spare Group : Structured Type : SI4RO Derivation Path : Encoding Variation : Comments : all bits are set to spare, 3GPP TS 51.010 clause 26.6.14			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		no optional Cell selection parameter
cbq	OMIT		not present
cellReselectOffset	OMIT		not present
temporaryOffset	OMIT		not present
penaltyTime	OMIT		not present
powerOffsetMask	'0'B		no optional power offset
powerOffset	OMIT		not present
raColourMask	'0'B		no GPRS indicator
rA_Colour	OMIT		not present
sl13Position	OMIT		not present
breakMask	'0'B		break
breakIndicator	'0'B		SI4 Rest Octets_S, is not sent in SYSTEM INFORMATION TYPE 7 and 8
IsaParamMask	OMIT		not present
pRIO_THR	OMIT		not present
ISA_OFFSET	OMIT		not present
mccMask	OMIT		not present
mCC	OMIT		not present
nMC	OMIT		not present
cellIDMask	OMIT		not present
cellIdentity	OMIT		not present
IsaMask	OMIT		not present
sl4RO_LSA_ID_Info	OMIT		not present
cBQ3Mask	OMIT		not present
cBQ3	OMIT		not present if breakMask = L or cBQ3Mask = L
si13altMask	OMIT		not present if breakMask = L or cBQ3Mask = L
si13altPosition	OMIT		not present if breakMask = L or cBQ3Mask = L or si13altMask = 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI3RO_GPRS_SI2quater Group : Structured Type : SI3RO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cellSelectMask	'0'B		no optional selection parameters (L= no optional parameter)
cbq	OMIT		not present
cellReselectOffset	OMIT		not present
temporaryOffset	OMIT		not present
penaltyTime	OMIT		not present
powerOffsetMask	'0'B		no optional power offset (L= no power offset)
powerOffset	OMIT		not present
sl2terIndicator	'0'B		no SI 2ter (L=no SI2ter)
earlyClassMarkSendingControl	'1'B		perform early classmark sending (H=allowed)
mask3	'0'B		no system information type 9 (L=no SI9)
schedulingWhere	OMIT		not present
mask4	'1'B		GPRS supported (H=support GPRS)
rA_Colour	'001'B		RA colour
sl13Position	'0'B		SI13 is on BCCH Norm
earlyClassMarksendingRestriction3G	'1'B		UTRAN classmark change message shall be sent with the Early classmark sending (L= no)
mask5	'1'B		SI2quater broadcasted (L=no SI2ter)
sl2quaterPosition	'0'B		
SI13altPosition	OMIT		only present if lu supported in cell
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SI6_RO_Spare(p_Band : B1) Group : Structured Type : SI6RO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
pchNchMask	'0'B		PCH, NCH info mask
pagingChRestructuring	–		not present if pchNchMask = 0
nLN_SACCH	–		not present if pchNchMask = 0
prioMask	–		not present if pchNchMask = 0
callPriority	–		not present if pchNchMask = 0 or prioMask = 0
nLN_Status	–		not present if pchNchMask = 0
inbandMask	'0'B		
inbandNotifications	–		not present if inbandMask = 0
inbandPagings	–		not present if inbandMask = 0
dTM_Supported	'0'B		
rAC	–		
mAX_LAPDm	–		
bandIndicator	p_Band		L = 1800 band supported, H = 1900 band supported
txPwrMask	'0'B		@R5s0500239 sic@
gPRS_MS_TXPWT_MAX_CH	–		not present if txPwrMask = L
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_SplitPGCycleInitial Group : Structured Type : DRXparamter Derivation Path : Encoding Variation : Comments : DRX paramter 3GPP 24.008 / 10.5.5.6. This is just to initialise the tcv and should be overwritten by what is received from the UE			
Element Name	Element Value	Element Encoding	Comments
splitPGcycleCode	'00000000'B		Split PG cycle code
cnDRXcoef	'0000'B		CN specific DRX cycle length coefficient
splitOnCCCCH	'0'B		Split on CCCCH
nonDRXtimer	'000'B		non-DRX timer
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_G_TA Group : Structured Type : TA Derivation Path : Encoding Variation : Comments : Timing advance GSM 04.08, 10.5.2.40			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		'01111101'B
sprb	'00'B		'00'B
value	'000000'B		Note 1 one unit = 48/13 microseconds (in 1 bit periods)
Detailed Comments : Note 1. the value of 0 for Timing advance will be used, until the primitive support to inform SS of Timing advance desired to be simulated. Once this support is available default value of 20 for GSM cell and 30 for GPRS cell shall be used.			

Structured Type Constraint Declaration			
Constraint Name : c_G_TBFFMode(p_downlink : B1) Group : Structured Type : DedicatedModeOrTBF Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		information element identifier
spareBit	'0'B		always = 0
twoMsgAssig	'0'B		two message assignment
downlink	p_downlink		down link assignement
tBForDedicated	'1'B		TBF or dedicated mode
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TCH_FreqGSM900 Group : Structured Type : FreqInfo Derivation Path : Encoding Variation : Comments : no hopping ARFCN = 30			
Element Name	Element Value	Element Encoding	Comments
h	'0'B		non-hopping channel
spr	'000'B		'000'B
spr1	'00'B		'00'B
maio	OMIT		mobile allocation index offset OMIT
hsn	OMIT		hopping sequence number OMIT
arfcn	'0000011110'B		absolute RF channel number = 30
hoppingFreqList	OMIT		hopping frequency list OMIT.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TimeSlotAllocation_TN4(p_PhyChId : PhysicalChId) Group : Structured Type : TimeSlotAllocation Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
physicalChId	p_PhyChId		Single PDCH or multi-slot configured PDCHs
tN0	FALSE		TRUE – time slot 0 is allocated; FALSE -- not allocated
tN1	FALSE		TRUE – time slot 1 is allocated; FALSE -- not allocated
tN2	FALSE		TRUE – time slot 2 is allocated; FALSE -- not allocated
tN3	FALSE		TRUE – time slot 3 is allocated; FALSE -- not allocated
tN4	TRUE		TRUE – time slot 4 is allocated; FALSE -- not allocated
tN5	FALSE		TRUE – time slot 5 is allocated; FALSE -- not allocated
tN6	FALSE		TRUE – time slot 6 is allocated; FALSE -- not allocated
tN7	FALSE		TRUE – time slot 7 is allocated; FALSE -- not allocated
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_UtranPreConfigInfo Group : Structured Type : UTRANPreConfigInfo Derivation Path : Encoding Variation : Comments : 3GPP TS 44.018 clause 10.5.2.7a			
Element Name	Element Value	Element Encoding	Comments
iei	OMIT		
iel	?		
value	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AuthFailParamGmmAny Group : Structured Type : AuthenticationFailureParameter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00110000'B		
iel	'0E'O		
auts	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AC_RefNum3 Group : Structured Type : AC_ReferenceNumber Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
value	'0011'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AttachTypeAny Group : Structured Type : AttachType Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
for	?		Follow-on request
type	?		Type of attach
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AuthCiphRspExtAny			
Group :			
Structured Type : AuthRspExt			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00101001'B		IEI is 0x29 (see 24.008 / 9.4.10)
iel	?		
rES	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AuthFailParamAny Group : Structured Type : AuthenticationFailureParameter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00100010'B		
iel	'0E'O		
auts	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AuthRspAny_tv			
Group :			
Structured Type : AuthRsp_tv			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00100010'B		'00100010'B (22 hex)
value	?		Authentication Parameter RES
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AuthRspExtAny			
Group :			
Structured Type : AuthRspExt			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00100001'B		'00100001'B
iel	?		
rES	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_AUTN(p_AUTN: BITSTRING) Group : Structured Type : AUTN Derivation Path : Encoding Variation : Comments : Authentication Parameter AUTN 3G TS 24.008 cl. 10.5.3.1.1			
Element Name	Element Value	Element Encoding	Comments
iei	'00100000'B		Length of 16 octets value of Authentication Parameter AUTN
iel	'10'O		
aUTN	p_AUTN		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellIndInfoDef Group : Structured Type : CellIndependantInfo Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cs_cipheringStarted	FALSE		the domain on which security was recently started, and hence the SRB are ciphered and Integrity protected with this domain.
ps_cipheringStarted	FALSE		
recentSecureDomain	cs_domain		
dL_CipherMode	cs_Null_CipheringModeCommand		
uL_CipherMode	–		
cipheringAlgorithmCapability	'000000000000000001'B		
integrityStarted	FALSE		
dL_Integrity	cs_IntegrityProtectStart (px_FRESH)		
uL_Integrity	–		
dL_IntegrityCheckInfo	–		
start_CS	'000000000000000000000000'B		Default new key
start_PS	'000000000000000000000000'B		Default new key
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CellInfoDef (p_CellId : INTEGER; p_priScrmCode : PrimaryScramblingCode; p_URA_Id : BITSTRING; p_tCell : Tcell; p_sfnOffset : INTEGER; p_FreqInfo : FrequencyInfo; p_UL_ScramblingCode : UL_ScramblingCode) Group : Structured Type : CellInfoCfg Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cellId	p_CellId		
frequencyInfo	p_FreqInfo		
attenuationLevel	tsc_AttenuationServingCell		
priScrmCode	p_priScrmCode		
powerpCPICH	tsc_PowerpCPICH		
powerpSCH	tsc_PowerpSCH		
powersSCH	tsc_PowersSCH		
powerpCCPCH	tsc_PowerpCCPCH		
powersCCPCH	tsc_PowersCCPCH1		
powersCCPCH1	tsc_PowersCCPCH1		
timingsCCPCH1	tsc_TimingsCCPCH1		
powerAICH	tsc_PowerAICH		
powerPICH	tsc_PowerPICH		
cellTxPowerLevel	defaultCellTxPowerLvl : NULL		
tCell	p_tCell		
sfnOffset	p_sfnOffset		
puncLimit	tsc_PuncLimit		
sf_PRACH	tsc_PRACH1_SF		
slotFormatsCCPCH1	tsc_SlotFormatsCCPCH1		
mcc	tsc_MCC_Def		
mnc	tsc_MNC_Def		
lac	tsc_LAC_Def		
rac	tsc_RAC_Def		
attFlag	tsc_AttOn		
nmo	tsc_NMO_I		
ura_Identity	p_URA_Id		
t3212	tsc_T3212_Def		
cRNTI	tsc_CRNTI		
uRNTI	c_U_RNTI_Def		
cellConfig	cell_NotConfigured		
dRX_CycleLength	c_DRX_CycleLengthStrucDef		
uL_ScramblingCode	p_UL_ScramblingCode		
DL_DPCH_SHO	FALSE		
UL_DPCH_SHO	FALSE		
dl_DPCH_2ndScrCode	tsc_DL_DPCH1_2ndScrC		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CiphAlgorithm (p_alg : B3) Group : Structured Type : CiphAlgorithm Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare1	'0'B		
algorithm	p_alg		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_CiphKeySeqNum(p_KeySeq: KeySeq) Group : Structured Type : CiphKeySeqNum Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare1	'0'B		
keySeq	p_KeySeq		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_DetachType(p_pow : B1; p_type : B3) Group : Structured Type : DetachType Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
powOff	p_pow		
type	p_type		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_DetachTypeReAttNotRequiredGPRS Group : Structured Type : DetachType Derivation Path : Encoding Variation : Comments : 'normal detach, re-attach not required'			
Element Name	Element Value	Element Encoding	Comments
powOff	'0'B		
type	'001'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_DRX_CycleLengthStrucDef Group : Structured Type : DRX_CycleLengthStructure Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cN_CS_DRX_CycleLength	7		
cN_PS_DRX_CycleLength	7		
uTRAN_DRX_CycleLength	9		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_DRX_ParamterAny Group : Structured Type : DRXparamter Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
splitPGcycleCode	?		Split PG cycle code
cnDRXcoef	?		CN specific DRX cycle length coefficient
splitOnCCCH	?		Split on CCCCH
nonDRXtimer	?		non-DRX timer
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ForceToStandby(p_val : B3) Group : Structured Type : ForceToStandby Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare value	'0'B p_val		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_AttachResult(p_result : B3) Group : Structured Type : AttachResult Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare result	'0'B p_result		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_AuthAUTN (p_autn : B128) Group : Structured Type : GMM_AUTN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei iel aUTN	'00101000'B '10'O p_autn		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_AuthRAND (p_rand : BITSTRING) Group : Structured Type : AuthenticationParamterRAND Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei randValue	'00100001'B p_rand		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_KeySeq_tv (p_key : KeySeq) Group : Structured Type : CiphKeySeqNum_tv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei spare1 keySeq	'1000'B '0'B p_key		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_MobileIdTMSI (p_tmsi : OCTETSTRING) Group : Structured Type : GMM_MS_Identity Derivation Path : Encoding Variation : Comments : Default TMSI			
Element Name	Element Value	Element Encoding	Comments
iei iel iDigit1 oddEvenInd typeOfId otherDigits	'00100011'B '05'O '1111'B '0'B '100'B p_tmsi		TMSI consists of 4 octets special coding for TMSI even TMSI
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_UpdateResult_v(p_result : B3) Group : Structured Type : UpdateResult_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare value	'0'B p_result		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GMM_UpdateType_v(p_for : B1; p_type : B3) Group : Structured Type : UpdateType_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
for value	p_for p_type		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_Timer_v(p_unit : B3; p_value : B5) Group : Structured Type : GPRS_Timer_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
unit value	p_unit p_value		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_GPRS_TimerAny Group : Structured Type : GPRS_Timer Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		00010111'B (17 hex)
unit	?		Unit
value	?		Timer value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LB_SetupRB_IE(p_LB_Size, p_RB_Identity: INTEGER) Group : Structured Type : LB_SetupRB_IE Derivation Path : Encoding Variation : Comments : This constraint is used as an LB entry in an LB setup list. Parameters: p_LB_Size: The uplink RLC SDU size in bits. This value will be represented as a 14 bit value in the LB Setup IE, so the valid range is from 0..16383. p_RB_Identity: The RB Id of the radio bearer that loopback is to be setup for. Valid range is 5..31, since RB 0-4 are used for signalling radio bearers.			
Element Name	Element Value	Element Encoding	Comments
rLC_SDU_Size	INT_TO_BIT(p_LB_Size, 16)		
spare_2	'000'B		
rB_Identity	INT_TO_BIT(p_RB_Identity, 5)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LocAreald_v(p_MCC: HEXSTRING; p_MNC: HEXSTRING; p_LAC: OCTETSTRING) Group : Structured Type : LocAreald_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
plmn	o_ConvtPLMN(p_MCC, p_MNC)		
lac	p_LAC		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LocArealdAny_v Group : Structured Type : LocAreald_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
plmn	?		
lac	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_LocUpdTypeAny Group : Structured Type : LocUpdType Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
fOR	?		
spare1	'0'B		
IUT	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MobileIdAny_lv Group : Structured Type : MS_Identity_lv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iel	?		
iDigit1	?		
oddEvenInd	?		
typeOfId	?		
otherDigits	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MobileIdPTMSI (p_ptmsi : O0_8)			
Group :			
Structured Type : GMM_MS_IdentityPTMSI			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011000'B		TMSI consists of 4 octets special coding for TMSI even TMSI / P-TMSI
iel	'05'O		
iDigit1	'1111'B		
oddEvenInd	'0'B		
typeOfId	'100'B		
otherDigits	p_ptmsi		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MobileIdPTMSI_Any			
Group :			
Structured Type : GMM_MS_IdentityPTMSI			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011000'B		TMSI consists of 4 octets special coding for TMSI even TMSI / P-TMSI Any value
iel	'05'O		
iDigit1	'1111'B		
oddEvenInd	'0'B		
typeOfId	'100'B		
otherDigits	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MobileIdTMSI_Def			
Group :			
Structured Type : MM_MS_Identity			
Derivation Path :			
Encoding Variation :			
Comments : Default TMSI			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		TMSI consists of 4 octets special coding for TMSI even TMSI
iel	'05'O		
iDigit1	'1111'B		
oddEvenInd	'0'B		
typeOfId	'100'B		
otherDigits	px_TMSI_Def		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MobileIdTMSI_lv			
Group :			
Structured Type : MS_Identity_lv			
Derivation Path :			
Encoding Variation :			
Comments : Default TMSI			
Element Name	Element Value	Element Encoding	Comments
iel	'05'O		TMSI consists of 4 octets special coding for TMSI even TMSI
iDigit1	'1111'B		
oddEvenInd	'0'B		
typeOfId	'100'B		
otherDigits	px_TMSI_Def		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MS_Clsmk1_Any Group : Structured Type : MS_Clsmk1 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare1	'0'B		
revLvl	?		
eSIND	?		
a5_1	?		
rFPwrCap	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MS_Clsmk1_Def Group : Structured Type : MS_Clsmk1 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare1	'0'B		
revLvl	px_MS_ClsmkRevLvl		
eSIND	px_MS_ClsmkESIND		
a5_1	pc_MS_ClsmkA5_1		
rFPwrCap	px_MS_ClsmkRF_PwrCap		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MS_Clsmk2_Any Group : Structured Type : MS_Clsmk2 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00110011'B		
iel	'03'O		
spare1_1	'0'B		
revLvl	?		
eSIND	?		
a5_1	?		
rFPwrCap	?		
spare1_2	'0'B		
pSCap	?		
sSSI	?		
sMCap	?		
vBS	?		
vGCS	?		
fC	?		
cM3	?		
spare1_3	'0'B		
ICSVA	?		
uCS2	?		
soLSA	?		
cMSP	?		
a5_3	?		
a5_2	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MS_Clsmk2_Any_Iv Group : Structured Type : MS_Clsmk2_Iv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iel	'03'O		
spare1_1	'0'B		
revLvl	?		
eSIND	?		
a5_1	?		
rFPwrCap	?		
spare1_2	'0'B		
pSCap	?		
sSSI	?		
sMCap	?		
vBS	?		
vGCS	?		
fC	?		
cM3	?		
spare1_3	'0'B		
ICSVA	?		
uCS2	?		
soLSA	?		
cMSP	?		
a5_3	?		
a5_2	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_MS_RadioAccessCapAny_Iv Group : Structured Type : MSRadioAccessCap_Iv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iel	?		
value	?		MS radio access capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PLMN_List1 (p_Plmn1 : OCTETSTRING) Group : Structured Type : PLMN_List Derivation Path : Encoding Variation : Comments : equivalent PLMN list containing 1 PLMN (OCTETSTRING[3])			
Element Name	Element Value	Element Encoding	Comments
iei	'01001010'B		'01001010'B
iel	'03'O		
plmn1	p_Plmn1		PLMN 1
plmn2	–		PLMN 2
plmn3	–		PLMN 3
plmn4	–		PLMN 4
plmn5	–		PLMN 5
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PTMSI_Signature (p_ptmsi : OCTETSTRING) Group : Structured Type : PTMSI_Signature Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011001'B		
value	p_ptmsi		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PTMSI_Signature_tlv (p_ptmsi : OCTETSTRING) Group : Structured Type : PTMSI_Signature_tlv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011001'B		
iel	'03'O		
value	p_ptmsi		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_PTMSI_SignatureAny Group : Structured Type : PTMSI_Signature Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei value	'00011001'B ?		'00011001'B (19 hex) P-TMSI signature value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RadioPriority(p_val : B3) Group : Structured Type : RadioPriority_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare value	'0'B p_val		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RadioPriority2(p_val : B3) Group : Structured Type : RadioPriority2_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare value	'0'B p_val		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RAI_Any_v Group : Structured Type : RAI_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
plmn	?		MCC + MNC 3 digits each
lac	?		LAC
rac	?		RAC
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RAI_v (p_mcc : HEXSTRING; p_mnc : HEXSTRING; p_lac : OCTETSTRING; p_rac : OCTETSTRING) Group : Structured Type : RAI_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
plmn	o_ConvtPLMN(p_mcc, p_mnc)		
lac	p_lac		
rac	p_rac		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RepeatIndAny Group : Structured Type : RepeatInd Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'1101'B		'D'H
repeatInd	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_ServiceType_v(p_type : B3) Group : Structured Type : ServiceType_v Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare1	'0'B		
type	p_type		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_TMSI_StatusAny Group : Structured Type : TMSI_Status Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		'1001'B
spare3	'000'B		
flag	?		Flag
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_UE_TestLoopMode1_LB_Setup(p_LB_Size, p_RB_Identity: INTEGER) Group : Structured Type : UE_TestLoopMode1LB_Setup Derivation Path : Encoding Variation : Comments : This constraint is used as a complete UE test loop mode 1 setup IE, with a single LB entity in the LB setup list. Parameters: p_LB_Size: The uplink RLC SDU size in bits. This value will be represented as a 14 bit value in the LB Setup IE, so the valid range is from 0..16383. p_RB_Identity: The RB Id of the radio bearer that loopback is to be setup for. Valid range is 5..31, since RB 0–4 are used for signalling radio bearers.			
Element Name	Element Value	Element Encoding	Comments
iel	'03'O		
IB_SetupRB_IE1	c_LB_SetupRB_IE(p_LB_Size, p_RB_Identity)		
IB_SetupRB_IE2	–		
IB_SetupRB_IE3	–		
IB_SetupRB_IE4	–		
IB_SetupRB_IE5	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cb_IMEISV_Request(p_value: B3) Group : Structured Type : IMEISVRequest Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spare1	'0'B		
value	p_value		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_AccessPtNameAny Group : Structured Type : AccessPtName Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00101000'B		
length	?		
accessPtName	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_Bcap3aEtcAny Group : Structured Type : Bcap3aEtc Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extBit	?		
coding	?		
spare2	?		
speechVersion	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_BcapAnyMO Group : Structured Type : Bcap Derivation Path : Encoding Variation : Comments : Any bearer capability for direction n <- ue			
Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		
iel	?		
extBit3	*		
radioChRequi	*		
codingStd	*		
transferMode	*		
itc	*		
bcap3aEtc1	cr_Bcap3aEtcAny IF_PRESENT		
bcap3aEtc2	cr_Bcap3aEtcAny IF_PRESENT		
bcap3aEtc3	cr_Bcap3aEtcAny IF_PRESENT		
bcap3aEtc4	cr_Bcap3aEtcAny IF_PRESENT		
bcap3aEtc5	cr_Bcap3aEtcAny IF_PRESENT		
bcap3aEtc6	cr_Bcap3aEtcAny IF_PRESENT		
extBit4	*		
compress	*		
structure	*		
duplexMode	*		
cfg	*		
nirr	*		
establish	*		
extBit5	*		
accessId	*		
rateAdapt	*		
sacp	*		
extBit5a	*		
OtherItc	*		
OtherRateAdapt	*		
spare3	*		
extBit5b	*		
rateAdaptHeader	*		
multiFrame	*		
mode	*		
logLinkId	*		
assignorAssignee	*		
inBandOutBand	*		
spare1	*		
extBit6	*		

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
layer1Id	*		
userInfoLayer1	*		
syncAsync	*		
extBit6a	*		
numStopBits	*		
nego	*		
numDataBits	*		
userRate	*		
extBit6b	*		
intermRate	*		
nicTx	*		
nicRx	*		
parity	*		
extBit6c	*		
connectElem	*		
modemType	*		
extBit6d	*		
OtherModemType	*		
FixedNtwUserRate	*		
extBit6e	*		
acceptChCoding	*		
maxNumTrafficCh	*		
extBit6f	*		
uIMI	*		
wAIUR	*		
extBit6g	*		
acceptChCodingExt	*		
asymInd	*		
spare2	*		
extBit7	*		
layer2Id	*		
userInfoLayer2	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_CC_CapabilitiesAny Group : Structured Type : CC_Capabilities Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00010101'B		
iel	?		
maxNumBearer	?		
spare2	?		
pcp	?		
dtmf	?		
spare4	?		
maxNumSpeechBearer	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_CDPN_Any Group : Structured Type : CDPN Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01011110'B		information element identifier
iel	?		length
typeOfNumPlan	cr_TypeOfNumPlanAny		type of number and numbering plan identification
digits	*		BCD numbers
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_CDPS_Any Group : Structured Type : CDPS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01101101'B		
iel	?		
subadrs	cr_SubadrsAny		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_CGPS_Any Group : Structured Type : CGPS Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01011101'B		information element identifier
iel	?		length
subadrs	cr_SubadrsAny		Subaddress
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_CodecAny Group : Structured Type : Codec Derivation Path : Encoding Variation : Comments : Codec 3G TS 24.008 cl. 10.5.4.32			
Element Name	Element Value	Element Encoding	Comments
sysId	?		system identification
len	?		length
bitMap1to8	?		codec bitmap bits 1–8
bitMap9to16	*		codec bitmap bits 9–16
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_CodecListAny Group : Structured Type : CodecList Derivation Path : Encoding Variation : Comments : Supported Codec List 3G TS 24.008 cl. 10.5.3.32			
Element Name	Element Value	Element Encoding	Comments
iei	'01000000'B		'01000000'B (40 hex)
iel	?		length
codec1	cr_CodecAny IF_PRESENT		Codec
codec2	cr_CodecAny IF_PRESENT		Codec
codec3	cr_CodecAny IF_PRESENT		Codec
codec4	cr_CodecAny IF_PRESENT		Codec
codec5	cr_CodecAny IF_PRESENT		Codec
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_DRXparamter_tv_Any Group : Structured Type : DRXparamter_tv Derivation Path : Encoding Variation : Comments : to be used in ROUTINGAREAUPDATEREQUEST constraints			
Element Name	Element Value	Element Encoding	Comments
iei	'00100111'B		'00100111'B (hex 27)
splitPGcycleCode	?		Split PG cycle code
cnDRXcoef	?		CN specific DRX cycle length coefficient
splitOnCCCCH	?		Split on CCCCH
nonDRXtimer	?		non-DRX timer
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_Facility_Any Group : Structured Type : Facility Derivation Path : Encoding Variation : Comments : Facility information element 3G TS 24.008 cl. 10.5.4.15			
Element Name	Element Value	Element Encoding	Comments
iei	'00011100'B		information element identifier '00011100'B
iel	?		length
comps	*		Component
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_FacilityAdvRecall Group : Structured Type : Facility Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011101'B		information element identifier
iel	?		length
comps	*		Component
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_GPRS_TimerAny Group : Structured Type : GPRS_Timer Derivation Path : Encoding Variation : Comments : to be used in ROUTINGAREAUPDATEREQUEST constraints			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		00010111'B (17 hex)
unit	?		Unit
value	?		Timer value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_HLC_Any			
Group :			
Structured Type : HLC			
Derivation Path :			
Encoding Variation :			
Comments : High layer compatibility			
Element Name	Element Value	Element Encoding	Comments
iei	'01111101'B		information element identifier
iel	?		
extBit3	*		
codingStd	*		
interpretation	*		
presentModeProtocolProfile	*		
extBit4	*		
hlcd	*		
extBit4a	*		
exteHlcd	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_LLC_Any Group : Structured Type : LLC Derivation Path : Encoding Variation : Comments : Low layer compatibility (CC information element)			
Element Name	Element Value	Element Encoding	Comments
iei	'01111100'B		
iel	?		
extBit3	*		
codingStd	*		
itc	*		
extBit3a	*		
negoInd	*		
spare6	*		
extBit4	*		
transferMode	*		
infoTransferRate	*		
extBit4_1	*		
rateMultiplier	*		
extBit5	*		
layer1Id	*		
userInfoLayer1	*		
extBit5a	*		
syncAsync	*		
nego	*		
userRate	*		
extBit5b1	*		
intermRate	*		
nicTx	*		
nicRx	*		
flowCtrlTx	*		
flowCtrlRx	*		
spare1	*		
extBit5b2	*		
rateAdaptHeader	*		
multiFrame	*		
mode	*		
logLinkId	*		
assignorAssignee	*		
inBandOutBand	*		
spare1_5b2	*		
extBit5c	*		
numStopBits	*		
numDataBits	*		
parity	*		
extBit5d	*		
duplexMode	*		

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
modemType	*		
extBit6	*		
layer2id	*		
userInfoLayer2	*		
extBit6a1	*		
modeLayer2	*		
spare3	*		
q933	*		
extBit6a2	*		
userSpecifLayer2	*		
extBit6b	*		
windowSize	*		
extBit7	*		
layer3id	*		
userInfoLayer3	*		
extBit7a1	*		
OptionUserSpecifLayer3	*		
extBit7a2	*		
modeLayer3	*		
spare5	*		
extb7b	*		
spare3_7b	*		
defaultPacketSize	*		
extBit7c	*		
packetWindowSize	*		
extBit7a3	*		
spare3_7a3	*		
addLayer3ProtocolInfo	*		
extBit7a4	*		
spare3_7a4	*		
addLayer3ProtocolInfoL	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_LLC_SAPI_v Group : Structured Type : LLC_SAPI_v Derivation Path : Encoding Variation : Comments : LLC SAPI value assigned as SAPI 3 in order to ensure that there are no problems at the time of handover from UMTS to GSM			
Element Name	Element Value	Element Encoding	Comments
spare ILC_SAPI_Value	'0000'B ('0000'B, '0011'B, '0101'B, '1001'B, '1011'B)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_MS_NetworkCap_tlv_Any Group : Structured Type : MS_NetworkCap_tlv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei iel value	'00110001'B ? ?		'00110001'B (hex 31) MS network capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_MS_NetworkCapAss_lv Group : Structured Type : MS_NetworkCap_lv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iel value	? ?		MS network capability value (CSN.1 coding)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_NSAPI_v Group : Structured Type : NSAPI_v Derivation Path : Encoding Variation : Comments : Received value of NSAPI			
Element Name	Element Value	Element Encoding	Comments
spare nSAPI_Value	'0000'B ('0101'B, '0110'B, '0111'B, '1000'B, '1001'B, '1010'B, '1011'B, '1100'B, '1101'B, '1110'B, '1111'B)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_PDP_ContextStatusAny Group : Structured Type : PDP_ContextStatus Derivation Path : Encoding Variation : Comments : to be used in ROUTINGAREAUPDATEREQUEST constraints			
Element Name	Element Value	Element Encoding	Comments
iei iel nSAPI	'00110010'B ? ?		'00110010'B Unit Timer value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_ProtoCfgOptAny Group : Structured Type : ProtoCfgOpt Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei length ext spare configprotocol protocolIdContents	'00100111'B ? ? ? ? *		270
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_PS_LCS_CapabilityAny Group : Structured Type : PS_LCS_Capability Derivation Path : Encoding Variation : Comments : PS LCS Capability 3GPP 24.008 / 10.5.5.22			
Element Name	Element Value	Element Encoding	Comments
iei	'00110011'B		'00110011'B (33 hex)
iel	'01'O		
spare	'000'B		
oTD_A	?		
oTD_B	?		
gPS_A	?		
gPS_B	?		
gPS_C	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_QualityOfService_Iv_Any Group : Structured Type : QualityOfService_Iv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	?		
spare	?		
dlyClass	?		
reliabilityClass	?		
peakThroughput	?		
spare1	?		
precedenceClass	?		
spare2	?		
meanThroughput	?		
trafficClass	?		
deliveryOrder	?		
deliveryErrorSDU	?		
maxSDUSize	?		
maxBitRateUplink	?		
maxBitRateDnlink	?		
residualBER	?		
sduErrRatio	?		
transDly	?		
trafficHandpro	?		
bitRateUplink	?		
bitRateDnlink	?		
spare3	*		
signallingInd	*		
srcStatsDescr	*		
maxBitRateDnlinkExt	*		
bitRateDnlinkExt	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_SS_VersionIndAny Group : Structured Type : SS_VersionInd Derivation Path : Encoding Variation : Comments : SS version indicator IE with AnyOrOmit values			
Element Name	Element Value	Element Encoding	Comments
iei	'01111111'B		
iel	?		
sS_VersionInfo	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_StaticPDP_AddressAny Group : Structured Type : PktDataProtoAddr_Iv Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
length	?		
spare	'0000'B		
pDP_TypeOrg	?		
pDP_TypeNo	?		
addrInfo	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_StreamIdAny Group : Structured Type : StreamId Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00101101'B		
iel	?		
val	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_SubadrsAny Group : Structured Type : Subadrs Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extBit	?		extension bit
typrOfSubadrs	?		Type of subaddress
oddEven	?		odd/even indicator
spare3	?		3 spare bits
subadrsInfo	*		subaddress information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_TearDwnInd_tv			
Group :			
Structured Type : TearDwnInd_tv			
Derivation Path :			
Encoding Variation :			
Comments : Tear down indicator used for the direction ue -> n			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		TDI Flag = 0, Tear down of all PDP Context not requested. TDI Flag = 1, Tear down of all PDP Context requested.
spare	'000'B		
tdiflag	'?'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_TI_Any			
Group :			
Structured Type : TI			
Derivation Path :			
Encoding Variation :			
Comments : Transaction identifier – used for MO calls			
Element Name	Element Value	Element Encoding	Comments
tiFlag	?		from network to MS
tiVal	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_TI_MO			
Group :			
Structured Type : TI			
Derivation Path :			
Encoding Variation :			
Comments : Transaction identifier – used for MO calls			
Element Name	Element Value	Element Encoding	Comments
tiFlag	'0'B		from network to MS
tiVal	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_TypeOfNumPlanAny Group : Structured Type : TypeOfNumPlan Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
extBit	?		extension bit
typeOfNum	?		Type of number
numbPlanId	?		Numbering plan id.
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_UserUserAny Group : Structured Type : UserUser Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		information element identifier
iel	?		length
userUserProtocolDiscr	?		user–user protocol discriminator
userUserInfo	*		user user information
Detailed Comments : In SETUP, ALERTING, CONNECT, DISCONNECT, RELEASE and RELEASE COMPLETE messages the userUserInfo length is of 0 – 32 bytes. In USER INFORMATION messages the userUserInfo length is of 1 – 128.			

Structured Type Constraint Declaration			
Constraint Name : cs_TI_MT			
Group :			
Structured Type : TI			
Derivation Path :			
Encoding Variation :			
Comments : Transaction identifier – used for MT calls			
Element Name	Element Value	Element Encoding	Comments
tiFlag	'0'B		from network to MS
tiVal	'000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_HSDPA_CfgDef Group : Structured Type : HSDPA_ConfigType Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
hRNTI	tsc_NewHRNTI		
numberOfProcesses	1		
phyLayCategory	pc_HSDSCH_UE_Category		
hs_SCCH_TxPo	tsc_DL_hs_SCCH_TxPower		
ul_DataRate	r384		
tfrC_ConfigType	explicit		
modulationScheme	qpsk		1.
channelisationCodeOffset	1		
noOfChannelisationCodes	1		1.
tbSizeIndexOnHS_SCCH	19		1.
minimumInterTTIinterval	3		2.
redundancyVersion	0		
hs_PDSCH_TxPower	5		
maxSDU_Size	320		
cqi_RepetitionFactor	1		
ackNackRepetitionFactor	1		
Detailed Comments : 1. Values selected such that all categories of UE support it, and one RLC PDU(AM 320 bits)can be sent in one TTI (21 bit MAC–HS fixed header, 0 Bit MAC–D H+ 16 Bit RLC AM header + 320 bit payload= 357. The lowest TF size satisfying this is 365 => kt =20 => as Ki,o =1, ki =19) The maximum value of this is 3, hence this is taken			

Structured Type Constraint Declaration			
Constraint Name : cr_QoS_InterOrBackgrdMO_HS_Ext (p_DlyClass, p_trafficClass : B3; p_maxBitRateUL , p_maxBitRateDL : MaxBitRate; p_maxSDUSize : MaxSDU_Size; p_maxBitRate15: BitRate)			
Group :			
Structured Type : QualityOfService_Iv			
Derivation Path :			
Encoding Variation :			
Comments : The QoS for PDP CONTEXT REQUEST – the extended bit rate 15 is checked			
Element Name	Element Value	Element Encoding	Comments
length	'0E'O		
spare	'00'B		
dlyClass	p_DlyClass		Best effort
reliabilityClass	'011'B		
peakThroughput	'0100'B		
spare1	'0'B		
precedenceClass	'000'B		Subscribed class
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		Interactive
deliveryOrder	'01'B		Without delivery order
deliveryErrorSDU	'010'B		Erroneour SDU are delivered
maxSDUSize	p_maxSDUSize		320 octets
maxBitRateUplink	p_maxBitRateUL		
maxBitRateDnlink	p_maxBitRateDL		
residualBER	'0111'B		1 x 10E (–5)
sduErrRatio	'0100'B		1 X 10 E(–4)
transDly	?		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
trafficHandpro	?		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
bitRateUplink	?		The guaranteed bit rate is set equal to requested bit rate.
bitRateDnlink	?		This will be neglected by UE as the class is interactive
spare3	?		
signallingInd	?		
srcStatsDescr	?		
maxBitRateDnlinkExt	p_maxBitRate15		
bitRateDnlinkExt	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_QoS_InteractiveOrBackgroundMT_HS_Ext (p_DlyClass, p_trafficClass : B3; p_maxBitRateUL , p_maxBitRateDL : MaxBitRate; p_maxSDUSize : MaxSDU_Size; p_BitRateExt: BitRate) Group : Structured Type : QualityOfService_lv Derivation Path : Encoding Variation : Comments : The QoS for interactive RAB at 384 kbps uplink and 14 Mbps down link, sent to the UE. This is set same as the one received by the nw			
Element Name	Element Value	Element Encoding	Comments
length	'0E'O		
spare	'00'B		
dlyClass	p_DlyClass		
reliabilityClass	'011'B		Unacknowledged GTP, LLC, and acknowledged RLC; Protected Data
peakThroughput	'0100'B		64 kbps
spare1	'0'B		
precedenceClass	'011'B		class 3
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		
deliveryOrder	'01'B		
deliveryErrorSDU	'010'B		
maxSDUSize	p_maxSDUSize		
maxBitRateUplink	p_maxBitRateUL		
maxBitRateDnlink	p_maxBitRateDL		
residualBER	'0111'B		1 x 10E (-5)
sduErrRatio	'0100'B		1 X 10 E(-4)
transDly	'111111'B		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
bitRateUplink	'10'O		The guaranteed bit rate is set equal to 16 kbps
bitRateDnlink	'10'O		The guaranteed bit rate is set equal to 16 kbps
spare3	'000'B		
signallingInd	'0'B		not optimised for signalling
srcStatsDescr	'0000'B		unknown
maxBitRateDnlinkExt	p_BitRateExt		
bitRateDnlinkExt	p_BitRateExt		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cs_QoS_InteractiveOrBackgroundMT_HS_Iv (p_DlyClass, p_trafficClass : B3; p_BitRateUL , p_BitRateDL : MaxBitRate; p_maxSDUSize : MaxSDU_Size) Group : Structured Type : QualityOfService_Iv Derivation Path : Encoding Variation : Comments : The QoS for interactive RAB			
Element Name	Element Value	Element Encoding	Comments
length	'0C'O		
spare	'00'B		
dlyClass	p_DlyClass		
reliabilityClass	'011'B		Unacknowledged GTP, LLC, and acknowledged RLC; Protected Data
peakThroughput	'0100'B		64 kbps
spare1	'0'B		
precedenceClass	'011'B		class 3
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		
deliveryOrder	'01'B		
deliveryErrorSDU	'010'B		
maxSDUSize	p_maxSDUSize		
maxBitRateUplink	p_BitRateUL		
maxBitRateDnlink	p_BitRateDL		
residualBER	'0111'B		1 x 10E (–5)
sduErrRatio	'0100'B		1 X 10 E(–4)
transDly	'111111'B		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
bitRateUplink	'10'O		The guaranteed bit rate is set equal to 16 kbps
bitRateDnlink	'10'O		The guaranteed bit rate is set equal to 16 kbps
spare3	'000'B		
signallingInd	'0'B		
srcStatsDescr	'0000'B		
maxBitRateDnlinkExt	–		
bitRateDnlinkExt	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : c_RAB_HSDPA_Info Group : Structured Type : RAB_HSDPA_Info Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
receivingWindowSize	rw512		DL RLC window
transmissionWindowSize	tw128		UL RLC window
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : cr_QoS_InterOrBackgrdMO_Iv_r5 (p_DlyClass, p_trafficClass : B3; p_maxBitRateUL , p_maxBitRateDL : MaxBitRate; p_maxSDUSize : MaxSDU_Size) Group : Structured Type : QualityOfService_Iv Derivation Path : Encoding Variation : Comments : The QoS for interactive RAB			
Element Name	Element Value	Element Encoding	Comments
length	('0C'O,'0E'O)		
spare	'00'B		
dlyClass	p_DlyClass		Best effort
reliabilityClass	'011'B		
peakThroughput	?		
spare1	'0'B		
precedenceClass	'000'B		Subscribed class
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		Interactive
deliveryOrder	'01'B		Without delivery order
deliveryErrorSDU	'010'B		Erroneour SDU are delivered
maxSDUSize	p_maxSDUSize		320 octets
maxBitRateUplink	p_maxBitRateUL		
maxBitRateDnlink	p_maxBitRateDL		
residualBER	'0111'B		1 x 10E (−5)
sduErrRatio	'0100'B		1 X 10 E(−4)
transDly	?		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
trafficHandpro	?		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
bitRateUplink	?		The guaranteed bit rate is set equal to requested bit rate.
bitRateDnlink	?		This will be neglected by UE as the class is interactive
spare3	'000'B		
signallingInd	?		
srcStatsDescr	?		
maxBitRateDnlinkExt	'00'O IF_PRESENT		
bitRateDnlinkExt	'00'O IF_PRESENT		
Detailed Comments :			

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PowerOffsetInfoBelow64k
Group	:
ASN1 Type	: PowerOffsetInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ gainFactorInformation signalledGainFactors:{ modeSpecificInfo fdd:{ gainFactorBetaC tsc_GainFactorBetaC_Below64k }, gainFactorBetaD tsc_GainFactorBetaD, referenceTFC_ID 0 }, powerOffsetPp_m OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PowerOffsetInfoComputed
Group	:
ASN1 Type	: PowerOffsetInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ gainFactorInformation computedGainFactors : 0, powerOffsetPp_m OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PowerOffsetInfoHigher64k
Group	:
ASN1 Type	: PowerOffsetInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ gainFactorInformation signalledGainFactors:{ modeSpecificInfo fdd:{ gainFactorBetaC tsc_GainFactorBetaC_Higher64k }, gainFactorBetaD tsc_GainFactorBetaD, referenceTFC_ID 0 }, powerOffsetPp_m OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MAC_hs_AddReconfQueue336
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ mac_hsQueueId 0, mac_dFlowId 0, reorderingReleaseTimer rt50, mac_hsWindowSize mws16, mac_d_PDU_SizeInfo_List { { mac_d_PDU_Size 336, mac_d_PDU_Index 0 } } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_DL_ActTime(p_ActivationTime : ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActivationTime, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL} }, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoHigher64k) --- sent to SS } </pre>	
Detailed Comments : For DCH1 (34.108 cl. 6.10.2.4.26): TTI = 20 ms; 5 transport formats: TransportBlocks = 0,1,2,3 and 4; all TB sizes = 336 bits; coding = turbo; CRCsize = 16; RateMatching = 130 For DCH5 (34.108 cl. 6.10.2.4.26): TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 155.	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_TTI_10_DL_InfoActNow
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activateNow : NULL, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TTI_10_TFS } }, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoHigher64k) --- sent to SS } </pre>	
Detailed Comments : For DCH5 (34.108 cl. 6.10.2.4.1.3): TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 155.	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AM_RLC_DCH_HSENH
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_RLC_PDU_size sizeType2 : {part1 2, part2 OMIT}, --- 336 (320 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AM_RLC_HS_Cfg2
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_RLC_PDU_size sizeType2 : {part1 2, part2 OMIT}, -- 336 (320 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize rw2047, dl_RLC_StatusInfo { timerStatusProhibit tsp50, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListHS_Stop
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	: The MAC–HS queue Id is deleted.
Constraint Value	
<pre>{ { dl_TransportChannelType hsdSCH : NULL, tfs_SignallingMode hsdSCH : { harqInfo OMIT, addOrReconfMAC_dFlow { mac_hs_AddReconfQueue_List OMIT, mac_hs_DelQueue_List {{ mac_hsQueueId 0 }} } }, dch_QualityTarget OMIT }, { dl_TransportChannelType dch : tsc_DL_DCH1, tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_336_TFS_UE, dch_QualityTarget { bler_QualityValue -20 -- Actual Value = IE Value * 0.1 } } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DPCH_PS_NewDPCH_FrameOffset (<p> p_DL_CommonInformation : DL_CommonInformation_r5 ; p_Tm : Tcell ; p_SecScramCode : SecondaryScramblingCode ; p_Sf : SF512_AndCodeNumber ; p_ScrCodeChange : ScramblingCodeChange) </p>
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((p_Tm+128) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecScramCode, sf_AndCodeNumber p_Sf, scramblingCodeChange p_ScrCodeChange }}, tpc_CombinationIndex 1, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, powerOffsetOfTFCL_PO1 tsc_DPCH_PowerOffsetTFCL, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DeletedTransChInfoListDCH_Stop_HSENH (p_DL_DCH_Id : INTEGER)
Group	:
ASN1 Type	: DL_DeletedTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> {{ dl_TransportChannelType dch : p_DL_DCH_Id }} </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DeletedTransChInfoListHS_Stop
Group	:
ASN1 Type	: DL_DeletedTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	: MAC-d flow Id 0 is deleted
Constraint Value	
<pre> {{ dl_TransportChannelType hdsch : 0 }}</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InfoPerRL_2_HSENH (p_ScrmbCode: PrimaryScramblingCode; p_Sf: SF512_AndCodeNumber; p_SecScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_InformationPerRL_List_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode}, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator TRUE }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecScramblingCode , sf_AndCodeNumber p_Sf, scramblingCodeChange OMIT }}, tpc_CombinationIndex 0, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT, cell_id OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_DL_InfoPerRL_HS_SHO (<p style="margin-left: 40px;">p_ScrmbCode1, p_ScrmbCode2: PrimaryScramblingCode ; p_Sf : SF512_AndCodeNumber ; p_SecondScrmbCode : SecondaryScramblingCode ; p_Tm : Tcell)</p> Group : ASN1 Type : DL_InformationPerRL_List_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { { modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode1 }, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator TRUE }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondScrmbCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex 0, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT, cell_id OMIT }, { modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode2 }, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator FALSE }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((p_Tm+128) MOD 38400) / 256), secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondScrmbCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex 1, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT, </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> cell_id OMIT } } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration
Constraint Name : c_MeasFeedbackInfoCfg2 Group : ASN1 Type : Measurement_Feedback_Info Derivation Path : Encoding Variation : Comments :
Constraint Value
<pre> { modeSpecificInfo fdd : { measurementPowerOffset 18, -- Actual measurement power offset value = IE value * 0.5 feedback_cycle fc10, --feedback cycle cqi_RepetitionFactor 1, --cqi repetition factor deltaCQI 3 } } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration
Constraint Name : c_PowerOffsetInfoHigher64k_Cfg2 Group : ASN1 Type : PowerOffsetInformation Derivation Path : Encoding Variation : Comments :
Constraint Value
<pre> { gainFactorInformation signalledGainFactors:{ modeSpecificInfo fdd:{ gainFactorBetaC 8 }, gainFactorBetaD tsc_GainFactorBetaD, referenceTFC_ID 0 }, powerOffsetPp_m OMIT } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_InfoReconfigListDCH_ToFACH_HSENH
Group	:
ASN1 Type	: RB_InformationReconfigList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { rb_Identity tsc_RB2, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_DCH_ToFACH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB3, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_DCH_ToFACH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB4, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { </pre>	

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ASN.1 Type Constraint Declaration	
	Constraint Value
	<pre> ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_DCH_ToFACH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB25, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_DCH_ToFACH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType2 : { part1 2, part2 OMIT }, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType rach : NULL, logicalChannelIdentity tsc_UL_DTCH1, rlc_SizeList explicitList : { { rlc_SizeIndex 2 } }, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType fach : NULL, logicalChannelIdentity tsc_DL_DTCH1 }} } }, rb_StopContinue OMIT } } </pre>
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_InfoReconfigListFACH_ToDCH_HSENH
Group	:
ASN1 Type	: RB_InformationReconfigList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { rb_Identity tsc_RB2, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_FACH_ToDCH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB3, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_FACH_ToDCH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB4, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_FACH_ToDCH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB25, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_HS, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType2 : { part1 2, part2 OMIT }, inSequenceDelivery TRUE, receivingWindowSize rw768, dl_RLC_StatusInfo { timerStatusProhibit tsp100, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType hsdSCH : 0, logicalChannelIdentity OMIT }} }}, rb_StopContinue OMIT } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RLC_InfoAM_Def_DCH_HSENH
Group	:
ASN1 Type	: RLC_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_RLC_Mode ul_AM_RLC_Mode : cb_UL_AM_RLC, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_DCH_HSENH, rlc_OneSidedReEst FALSE }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RLC_InfoAM_HS_Cfg2
Group	:
ASN1 Type	: RLC_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_RLC_Mode ul_AM_RLC_Mode : c_UL_AM_RLC_HS_Cfg2, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_HS_Cfg2, rlc_OneSidedReEst FALSE }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_To11_Rx_32k_restriction
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for receiver 384kbps UL DCH with 10ms TTI restricted to 32kbps (34.108 clause 6.10.2.4.1.34).
Constraint Value	
<pre>normalTFCL_Signalling: complete: { ctfcSize ctfc6Bit: { { ctfc6 0, powerOffsetInformation OMIT }, { ctfc6 1, powerOffsetInformation OMIT }, { ctfc6 6, powerOffsetInformation OMIT }, { ctfc6 7, powerOffsetInformation OMIT } } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_To11_Rx_64k_Restriction
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for receiver 384kbps UL DCH with 10ms TTI restricted to 64kbps (34.108 clause 6.10.2.4.1.34).
Constraint Value	
normalTFCL_Signalling: complete: { ctfcSize ctfc6Bit: { { ctfc6 0, powerOffsetInformation OMIT }, { ctfc6 1, powerOffsetInformation OMIT }, { ctfc6 2, powerOffsetInformation OMIT }, { ctfc6 6, powerOffsetInformation OMIT }, { ctfc6 7, powerOffsetInformation OMIT }, { ctfc6 8, powerOffsetInformation OMIT } }} 	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_To11_Tx_32k_restriction (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter 384kbps UL DCH with 10ms TTI restricted to 32kbps (34.108 clause 6.10.2.4.1.34).
Constraint Value	
normalTFCL_Signalling: complete: { ctfcSize ctfc6Bit: { { ctfc6 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 6, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 7, powerOffsetInformation p_PowerOffsetInformation } }} 	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_To11_Tx_64k_restriction (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter 384kbps UL DCH with 10ms TTI restricted to 64kbps (34.108 clause 6.10.2.4.1.34).
Constraint Value	
normalTFCL_Signalling: complete: { ctfcSize ctfc6Bit: { { ctfc6 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 2, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 6, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 7, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 8, powerOffsetInformation p_PowerOffsetInformation } }} 	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrCHInfo_UL_2_DCH (p_DchTFS5, p_DchTFS1 : CommonOrDedicatedTFS ; p_TFCS : TFCS)
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ ulconnectedTrCHList { { trchid tsc_UL_DCH1, transportChannelInfo p_DchTFS1 }, { trchid tsc_UL_DCH5, transportChannelInfo p_DchTFS5 }}, ulTFCS p_TFCS } 	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AM_RLC_HS_Cfg2
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { transmissionRLC_Discard noDiscard : dat10, transmissionWindowSize tw256, timerRST tr1000, max_RST rst12, pollingInfo { timerPollProhibit tpp50, timerPoll tp400, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw80, timerPollPeriodic OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfo_AM0To11_32k_restriction_HSENH (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	: 384kbps UL DCH with 10ms TTI restricted to 32kbps (34.108 clause 6.10.2.4.1.34).
Constraint Value	
<pre> { tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_To11_Tx_32k_restriction (p_PowerOffsetInformation) } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfo_AM0To11_64k_restriction_HSENH (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	: 384kbps UL DCH with 10ms TTI restricted to 64kbps (34.108 clause 6.10.2.4.1.34).
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_To11_Tx_64k_restriction (p_PowerOffsetInformation) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfo_AM0To11_r4 (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_To11_Tx (p_PowerOffsetInformation) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_UL_DPCH_InfoACK_Ack6_HSENH (p_SprdFct: SpreadingFactor; p_PuncLimit: PuncturingLimit; p_UL_ScramblingCode : UL_ScramblingCode) Group : ASN1 Type : UL_DPCH_Info_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { ul_DPCH_PowerControlInfo fdd:{ dpcch_PowerOffset -3, -- Actual Value ==-6 pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1 : tsc_TpcStepSize, deltaACK 6, deltaNACK 6, ack_NACK_repetition_factor 1 }, modeSpecificInfo fdd :{ scramblingCodeType longSC, scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor p_SprdFct, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit p_PuncLimit } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_AddReconfTransChInfoListHS
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { dl_TransportChannelType hsdSCH : NULL, tfs_SignallingMode hsdSCH : { harqInfo { numberOfProcesses 6, memoryPartitioning implicit : NULL }, addOrReconfMAC_dFlow { mac_hs_AddReconfQueue_List {{ mac_hsQueueId 0, mac_dFlowId 0, reorderingReleaseTimer rt50, mac_hsWindowSize mws16, mac_d_PDU_SizeInfo_List {{ mac_d_PDU_Size 336, mac_d_PDU_Index 0 }} }}, mac_hs_DelQueue_List OMIT } }, dch_QualityTarget OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : cb_DL_DPCH_PS_Offset_HSENH (p_DL_CommonInformation : DL_CommonInformation_r5 ; p_SecondaryScramblingCode : SecondaryScramblingCode ; p_Sf : SF512_AndCodeNumber) Group : ASN1 Type : DL_DPCHInfo_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber p_Sf }}, tpc_CombinationIndex 0 }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH_64k, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : cd_MeasFeedbackInfoCfg3 (p_HSDPA_ConfigType : HSDPA_ConfigType) Group : ASN1 Type : Measurement_Feedback_Info Derivation Path : c_Measurement_Feedback_Info. Encoding Variation : Comments :	
Constraint Value	
REPLACE modeSpecificInfo.fdd.deltaCQI BY 2	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_RAB_InfoSetupDCH_PS_HS_A10_NoPDCP (p_Reestimer : Re_EstablishmentTimer; p_RAB_Id : BITSTRING; p_RLC_Info : RLC_Info_r5)
Group	:
ASN1 Type	: RAB_InformationSetup_r5
Derivation Path	: c_RAB_InfoSetupDCH_PS_HS_A10.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE rb_InformationSetupList.[0].pdcp_Info BY OMIT	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_RAB_InfoSetupDCH_PS_HS_NoPDCP (p_Reestimer : Re_EstablishmentTimer; p_RAB_Id : BITSTRING; p_RLC_Info : RLC_Info_r5)
Group	:
ASN1 Type	: RAB_InformationSetup_r5
Derivation Path	: c_RAB_InfoSetupDCH_PS_HS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE rb_InformationSetupList.[0].pdcp_Info BY OMIT	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_TrLogMappingDL_4DCCH_1DTCH_HS
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	: cb_TrLogMappingDL_4DCCH_1DTCH_PS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dlconnectedTrCHList.[0]. trCH_LogCHMappingList.[0]. rB_Identity BY tsc_RB25	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_AM_RLC_DCH_ToFACH
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	: cb_UL_AM_RLC.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE timerRST BY tr600, REPLACE pollingInfo.timerPollProhibit BY tpp250, REPLACE pollingInfo.timerPoll BY tp250	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_AM_RLC_FACH_ToDCH
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	: cb_UL_AM_RLC.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE timerRST BY tr400, REPLACE pollingInfo.timerPollProhibit BY tpp150, REPLACE pollingInfo.timerPoll BY tp150	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_InfoReconfigList_AM
Group	:
ASN1 Type	: RB_InformationReconfigList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { rb_Identity tsc_RB1, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info OMIT, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB2, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : { transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize tw128, timerRST tr600, max_RST rst4, pollingInfo { timerPollProhibit tpp250, timerPoll tp250, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } }, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT --- periodic RLC Status PDU omitted } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB3, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : { transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize tw128, </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> timerRST tr600, max_RST rst4, pollingInfo { timerPollProhibit tpp250, timerPoll tp250, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } }, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT -- periodic RLC Status PDU omitted } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB4, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : { transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize tw128, timerRST tr600, max_RST rst4, pollingInfo { timerPollProhibit tpp250, timerPoll tp250, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } } }, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType1 : 16, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT -- periodic RLC Status PDU omitted } } } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB25, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : { transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize tw128, timerRST tr600, max_RST rst4, pollingInfo { timerPollProhibit tpp250, timerPoll tp250, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } }, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType2 : {part1 2, part2 OMIT}, -- 336 (320 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT -- periodic RLC Status PDU omitted } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT } } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MAC_hs_AddReconfQueue (p_MAC_Size : INTEGER)
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { mac_hsQueueId 0, mac_dFlowId 0, reorderingReleaseTimer rt50, mac_hsWindowSize mws16, mac_d_PDU_SizeInfo_List { { mac_d_PDU_Size p_MAC_Size, mac_d_PDU_Index 0 } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DeITransCHInfo_HS
Group	:
ASN1 Type	: DL_DeletedTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { dl_TransportChannelType hsdSCH : 0 } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Measurement_Feedback_Info_Rep2 (p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
ASN1 Type	: Measurement_Feedback_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ modeSpecificInfo fdd : { measurementPowerOffset 12, -- Actual measurement power offset value = IE value * 0.5 feedback_cycle fc8, --feedback cycle cqi_RepetitionFactor p_HSDPA_ConfigType.cqi_RepetitionFactor, --cqi repetition factor deltaCQI 4 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_DPCH_InfoACK_PowMod_HSENH (p_SprdFct: SpreadingFactor; p_PuncLimit: PuncturingLimit; p_UL_ScramblingCode : UL_ScramblingCode ; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
ASN1 Type	: UL_DPCH_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_DPCH_PowerControlInfo fdd:{ dpcch_PowerOffset -40, -- Actual Value ==-80 pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1 : tsc_TpcStepSize, deltaACK 6, deltaNACK 6, ack_NACK_repetition_factor p_HSDPA_ConfigType.ackNackRepetitionFactor }, modeSpecificInfo fdd :{ scramblingCodeType longSC, scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor p_SprdFct, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit p_PuncLimit } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InfoPerRL_Cpich_Info_HSENH (p_ScrmbCode: PrimaryScramblingCode)
Group	:
ASN1 Type	: DL_InformationPerRL_List_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode}, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator FALSE }, dl_DPCH_InfoPerRL OMIT, sccpch_InfoforFACH OMIT, cell_id OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_DPCH_SRB_HS_TimInitDiff (p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf: SF512_AndCodeNumber)
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	: c_DL_DPCH_SRB_HS_TimInit.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_CommonInformation BY cd_DL_CommonInformationDCH_DPCH_Offset_Diff_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k)	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RLC_InfoAM_Def_HSENH_656
Group	:
ASN1 Type	: RLC_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_RLC_Mode ul_AM_RLC_Mode : c_UL_AM_RLC_HSENH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_HSENH_656, rlc_OneSidedReEst FALSE }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_AM_RLC_RW_PDUsize_HSENH
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	: c_DL_AM_RLC_HSENH.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_RLC_PDU_size BY sizeType1 : 16, --- 144 (128 Payload + 16 bit header) REPLACE receivingWindowSize BY rw128, REPLACE dl_RLC_StatusInfo.timerStatusProhibit BY tsp200	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AM_RLC_HSENH_656
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_RLC_PDU_size sizeType2 : {part1 12, part2 OMIT}, --- 656 (640 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize rw768, dl_RLC_StatusInfo { timerStatusProhibit tsp100, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_AM_RLC_RST_HSENH
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	: c_UL_AM_RLC_HSENH.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE timerRST BY tr600, REPLACE pollingInfo.timerPollProhibit BY tpp250, REPLACE pollingInfo.timerPoll BY tp250	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_AM_RLC_RW_HSENH
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	: c_DL_AM_RLC_HSENH.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE receivingWindowSize BY rw128, REPLACE dl_RLC_StatusInfo.timerStatusProhibit BY tsp200	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AM_RLC_rw_PDU_Size656_HSENH(p_rw:ReceivingWindowSize)
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_RLC_PDU_size sizeType2 : {part1 12, part2 OMIT}, -- 656 (640 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize p_rw, dl_RLC_StatusInfo { timerStatusProhibit tsp100, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoList_2DCH_HS_PS_2Size_HSENH (p_NumOfProcess : INTEGER;p_MAC_Queue :MAC_hs_AddReconfQueue)
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_NumOfProcess), c_AddOrReconfMAC_dFlow (p_MAC_Queue))) }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DeletedTransChInfo_HS (p_MAC_d_FlowIdentity : MAC_d_FlowIdentity)
Group	:
ASN1 Type	: DL_DeletedTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ { dl_TransportChannelType hdsch : p_MAC_d_FlowIdentity } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MAC_hs_AddReconfQueue656
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	:
Encoding Variation	:
Comments	: to Configure SS with MAC-D PDU size of 656
Constraint Value	
<pre> { mac_hsQueueId 0, mac_dFlowId 0, reorderingReleaseTimer rt50, mac_hsWindowSize mws16, mac_d_PDU_SizeInfo_List { { mac_d_PDU_Size 656, mac_d_PDU_Index 0 } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoSetupDCH_PS_HS_NoPDCP (p_Reesttimer : Re_EstablishmentTimer; p_RAB_Id : BITSTRING; p_RLC_Info : RLC_Info_r5) Group : ASN1 Type : RAB_InformationSetup_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity : p_RAB_Id, cn_DomainIdentity ps_domain, nas_Synchronisation_Indicator OMIT, re_EstablishmentTimer p_Reesttimer }, rb_InformationSetupList {{ rb_Identity tsc_RB25, pdcp_Info OMIT, rlc_InfoChoice rlc_Info_r5 : p_RLC_Info, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType hsdSCH : 0, logicalChannelIdentity OMIT }} }} }} } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_RLC_InfoAM_twrw_HSENH(p_UL_AM_RLC_Mode:UL_AM_RLC_Mode;p_DL_AM_RLC_Mode:DL_AM_RLC_Mode_r5) Group : ASN1 Type : RLC_Info_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { ul_RLC_Mode ul_AM_RLC_Mode : p_UL_AM_RLC_Mode, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : p_DL_AM_RLC_Mode, rlc_OneSidedReEst FALSE } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFC_Allowed_0_1_2_5_7
Group	:
ASN1 Type	: TFC_Subset
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
allowedTFC_List: { 0, 1, 2, 5, 7 }	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFC_Allowed_0_1_3_5_8
Group	:
ASN1 Type	: TFC_Subset
Derivation Path	:
Encoding Variation	:
Comments	: For speech combination with 2 RBs + DCCH
Constraint Value	
allowedTFC_List: { 0, 1, 3, 5, 8 }	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFC_Allowed_0_1_4_5_9
Group	:
ASN1 Type	: TFC_Subset
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
allowedTFC_List: { 0, 1, 4, 5, 9 }	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MAC_hs_AddReconfQueue1974
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ mac_hsQueueId 0, mac_dFlowId 0, reorderingReleaseTimer rt50, mac_hsWindowSize mws16, mac_d_PDU_SizeInfo_List { { mac_d_PDU_Size 1974, mac_d_PDU_Index 0 } } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_TrLogMappingUL_4DCCH_1DTCH_HS_NoMacHeader
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	: cb_TrLogMappingUL_4DCCH_1DTCH_PS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE ulconnectedTrCHList.[0]. trCH_LogCHMappingList.[0].logicalChannel_Mapping.ul_LogicalChannelMapping.macHeaderManipulation BY omitMacHeader, REPLACE ulconnectedTrCHList.[0]. trCH_LogCHMappingList.[0]. rB_Identity BY tsc_RB_MAC_HS	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_RLC_InfoAM_Def_NoTPoll_NoTPollProh_HSENH
Group	:
ASN1 Type	: RLC_Info_r5
Derivation Path	: c_RLC_InfoAM_Def_HSENH.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE ul_RLC_Mode.ul_AM_RLC_Mode BY cd_UL_AM_RLC_NoTPoll_NoTPollProh_HSENH	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_AM_RLC_NoTPoll_NoTPollProh_HSENH
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	: c_UL_AM_RLC_HSENH.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE pollingInfo.timerPoll BY OMIT, REPLACE pollingInfo.timerPollProhibit BY OMIT	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_MAC_hs_AddReconfQueue365_Special_SS
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	: c_MAC_hs_AddReconfQueue336.
Encoding Variation	:
Comments	: This Constraint is
Constraint Value	
REPLACE reorderingReleaseTimer BY rt400, REPLACE mac_hsWindowSize BY mws32, REPLACE mac_d_PDU_SizeInfo_List BY { { mac_d_PDU_Size tsc_Payload_365, mac_d_PDU_Index 0 } }	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_MAC_hs_AddReconfQueue136_328_Special
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	: c_MAC_hs_AddReconfQueue336.
Encoding Variation	:
Comments	: This Constraint is
Constraint Value	
REPLACE reorderingReleaseTimer BY rt400, REPLACE mac_hsWindowSize BY mws32, REPLACE mac_d_PDU_SizeInfo_List BY { { mac_d_PDU_Size 136, mac_d_PDU_Index 0 }, { mac_d_PDU_Size 328, mac_d_PDU_Index 0 } } }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_MAC_hs_AddReconfQueue336_Special
Group	:
ASN1 Type	: MAC_hs_AddReconfQueue
Derivation Path	: c_MAC_hs_AddReconfQueue336.
Encoding Variation	:
Comments	: This Constraint is
Constraint Value	
REPLACE reorderingReleaseTimer BY rt400, REPLACE mac_hsWindowSize BY mws32	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingDL_MAC_HS_NoMacHeader
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList OMIT, dlconnectedMACdFlows { { mac_dFlowId 0, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation omitMacHeader, dl_TransportChannelType hsdSCH, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList explicitList : { {rlc_SizeIndex 1} }, mac_LogicalChannelPriority 8 }, rB_Identity tsc_RB_MAC_HS, cn_DomainIdentity ps_domain } } } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_UM_RLC_HSENH
Group	:
ASN1 Type	: DL_UM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_UM_RLC_LI_size size7 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_UM_RLC_HSENH
Group	:
ASN1 Type	: UL_UM_RLC_Mode
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ transmissionRLC_Discard timerBasedNoExplicit : dt100 }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RLC_InfoUM_Def_HSENH
Group	:
ASN1 Type	: RLC_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_RLC_Mode ul_UM_RLC_Mode : c_UL_UM_RLC_HSENH, dl_RLC_Mode_r5 dl_UM_RLC_Mode_r5 : c_DL_UM_RLC_HSENH, rlc_OneSidedReEst FALSE }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoSetupDCH_PS_MAC_HS_NoPDCP (p_Reestimer : Re_EstablishmentTimer; p_RAB_Id : BITSTRING; p_RLC_Info : RLC_Info_r5) Group : ASN1 Type : RAB_InformationSetup_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity : p_RAB_Id, cn_DomainIdentity ps_domain, nas_Synchronisation_Indicator OMIT, re_EstablishmentTimer p_Reestimer }, rb_InformationSetupList {{ rb_Identity tsc_RB25, pdcp_Info OMIT, rlc_InfoChoice rlc_Info_r5 : p_RLC_Info, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType hsdSCH : 0, logicalChannelIdentity OMIT }} }} }} }} } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_148_UL_InfoActNow
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activateNow : NULL, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_336_TFS}, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL} }, ulTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx, -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	<p>: For DCH1 (34.108 cl. 6.10.2.4.1.26.1.1.1):</p> <p>TTI = 20 ms;</p> <p>5 transport formats: TB size always=336 bits; TransportBlocks = 0,1,2,3 and 4 ;</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 130</p> <p>For DCH5 (34.108 cl. 6.10.2.4.1.26.1.1.2):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MIB_DefLongNeighCellInfo (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: MasterInformationBlock
Derivation Path	:
Encoding Variation	:
Comments	: Default setting of MIB. 3GPP TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre> { mib_ValueTag 1, plmn_Type gsm_MAP : { plmn_Identity { mcc o_HexToDigitsMCC (p_CellInfo.mcc), mnc o_HexToDigitsMNC (p_CellInfo.mnc) } }, sibSb_ReferenceList { { sibSb_Type sysInfoTypeSB1 : 1, scheduling {scheduling { sib_Pos rep16 : 1 }} }, { sibSb_Type sysInfoType1 : 1, scheduling {scheduling { sib_Pos rep64 : 10 }} }, { sibSb_Type sysInfoType2 : 1, scheduling {scheduling { sib_Pos rep64 :10 }} }, { sibSb_Type sysInfoType3 : 1, scheduling {scheduling { sib_Pos rep64 : 7 }} }, { sibSb_Type sysInfoType4 : 1, scheduling {scheduling { sib_Pos rep64 : 31 }} }, { sibSb_Type sysInfoType5 : 1, scheduling {scheduling { segCount 4, sib_Pos rep64 : 18, sib_PosOffsetInfo {so2, so4, so2} }} } } } </pre>	
Detailed Comments	<p>: Assum no segmentation for SIB1, SIB2, SIB3, SIB4.</p> <p>Contains scheduling informations for SIB1, SIB2, SIB3, SIB4, SIB5 and SB1 only, the scheduling information for other SIBs are in SysInfoTypeSB1.</p> <p>The value 1 of valueTags is a place holder. actual values of them will be non-zero and assigned dynamically in various SendSystemInformation test Steps.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SB1_DefLongNeighCellInfo
Group	:
ASN1 Type	: SysInfoTypeSB1
Derivation Path	:
Encoding Variation	:
Comments	: Default setting of SB1. scheduling is defined in 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre> { sib_ReferenceList { { sib_Type sysInfoType6 : 1, scheduling {scheduling { segCount 4, sib_Pos rep64 : 2, sib_PosOffsetInfo {so2, so4, so2} }} }, { sib_Type sysInfoType7 : NULL, scheduling {scheduling { sib_Pos rep16 : 7 }} }, { sib_Type sysInfoType11 : 1, scheduling { scheduling { segCount 4, sib_Pos rep64 : 26, sib_PosOffsetInfo {so2, so4, so2} }} }, { sib_Type sysInfoType12 : 1, scheduling { scheduling { segCount 4, sib_Pos rep64 : 11, sib_PosOffsetInfo {so4, so2, so2} }} }, { sib_Type sysInfoType18 : 1, scheduling { scheduling { sib_Pos rep64 : 23 }} } }, nonCriticalExtensions OMIT } </pre>	
Detailed Comments	<p>: Assum no segmentation for SIB7.</p> <p>Contains scheduling informations for SIB6, SIB7, SIB11, SIB12, SIB18 only, the scheduling information for other SIBs may be added later.</p> <p>The value 1 of valueTags is a place holder. actual values of them will be non–zero and assigned dynamically in various SendSystemInformation test Steps.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul1_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of one segment, 3GPP TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 :26 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul2_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of two segments, 3GPP TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 :26, sib_PosOffsetInfo {so2} } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul3_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of three segments, 3GPP TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :26, sib_PosOffsetInfo {so2, so4} } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul4_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of four segments, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 4, sib_Pos rep64 :26, sib_PosOffsetInfo {so2, so4, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul1_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of one segment, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 :11 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul2_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of two segments, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 : 11, sib_PosOffsetInfo {so4} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul3_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of three segments, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :11, sib_PosOffsetInfo {so4, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul4_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of four segments, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 4, sib_Pos rep64 :11, sib_PosOffsetInfo {so4, so2, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul1_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of one segment, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 :18 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul2_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of two segments, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 :18, sib_PosOffsetInfo {so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul3_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of three segments, 3GPP TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :18, sib_PosOffsetInfo {so2, so4} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul4_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of four segments, 3GPP TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 4, sib_Pos rep64 :18, sib_PosOffsetInfo {so2, so4, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul1_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of one segment, scheduling defined in TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 : 2 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul2_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of two segments, scheduling defined in TS 34.123-3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 :2, sib_PosOffsetInfo {so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul3_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of three segments, scheduling defined in TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :2, sib_PosOffsetInfo {so2, so4} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul4_LongNeighCellInfo
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of four segments, scheduling defined in TS 34.123–3 clause 8.4.3.1
Constraint Value	
<pre>{ scheduling { segCount 4, sib_Pos rep64 :2, sib_PosOffsetInfo {so2, so4, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFC_Restriction_UL(p_TFC:TFC_Subset)
Group	:
ASN1 Type	: TFC_Restriction
Derivation Path	:
Encoding Variation	:
Comments	: This type is used to specify the allowed TFCs within the current TFCS. A TFC restriction is applicable until a subsequent TFC restriction is applied. TFC restrictions are not cumulative, so each TFC restriction completely replaces the previous TFC restriction. The downlink restriction can be used to ensure that the SS uses a specific TFC for transmission of data, by only allowing the 'No data' TFC, and the 'desired' TFC. It may also be necessary to include one or more 'signalling only' TFCs to allow signalling to occur. The uplink restriction can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.
Constraint Value	
<pre>{ ulTFCI_Restriction p_TFC, dlTFCI_Restriction OMIT }</pre>	
Detailed Comments	: SS requirements for downlink. 1. The SS MAC layer shall not use a restricted non-allowed TFC for DL. 2. The SS MAC layer shall not use a TFC that requires the SS RLC layer to provide padding PDUs (Ref 3G TS 25.322) 3. In the case that there is data pending on one or more RLC entities, but not enough to use one of the allowed TFCs: a. The SS MAC layer shall use the 'No data' TFC until there is enough data in the RLC to use another allowed TFC. b. The SS RLC layer shall buffer the data until there is enough data in the RLC entities for the MAC layer to use an allowed TFC other than the 'No data' TFC for transmission of the data. NB: The TTCN author is responsible for ensuring: 1. The SDU discard function is not configured for TM and UM entities in the UE, and is configured to no_discard for AM entities in the UE. 2. That RLC SDUs that are expected to be sent in the same TTI (due to a TFC restriction) are sent as quickly as possible to minimise the number of 'no data' TFCs used by the MAC layer, and the amount of buffering that must be performed by the RLC layer. SS requirements for uplink: The SS shall discard all data received using a restricted non-allowed TFC.

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChConfigTypeDCH_SHO
Group	:
ASN1 Type	: TrChConfigType
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
dch : softHO	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoDL_34_StandAlone
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dlconnectedTrCHList { { trchid tsc_DL_DCH5, transportChannelInfo c_DCH_148_TFS_DL }, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_103_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#2 on dedicated channel
Constraint Value	
<pre>{ tti tti20 :{ { tb_Size 103, numberOfTbSizeList { zero : NULL, one : NULL }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 190, crc_Size crc0 } }</pre>	
Detailed Comments	: TS 34.108 cl. 6.10.2.4.1.4: TTI = 20 ms; two transport formats: TransportBlocks = 0, TB size = 103 bits; TransportBlock = 1, Size = 103. coding = convolutional; coding rate = 1/3; CRCsize = N/A; RateMatching = 190

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_103_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#2 on dedicated channel used in message sent to UE
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size bitMode : sizeType1 : 103, numberOfTbSizeList { zero : NULL, one : NULL }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 190, crc_Size crc0 } } </pre>	
Detailed Comments	: TS 34.108 cl. 6.10.2.4.1.4: TTI = 20 ms; two transport formats: TransportBlocks = 0, TB size = 103 bits; TansportBlock = 1, Size = 103. rlc_Size = TB_Size (DCH, w/o MUX) coding = convolutional; coding rate = 1/3; CRCsize = N/A; RateMatching = 190

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DCH_336_148_DL_Info (p_ActTime : ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH1, dl_TransportChannelType dch, transportChannelInfo c_DCH_336_TFS}, { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL } }, dlTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) -- sent to SS } </pre>	
<p>Detailed Comments : For DCH1 (34.108 cl. 6.10.2.4.26):</p> <p>TTI = 20 ms;</p> <p>5 transport formats: TransportBlocks = 0,1,2,3 and 4; all TB sizes = 336 bits;</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 130</p> <p>For DCH5 (34.108 cl. 6.10.2.4.26):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155.</p>	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DCH_336_148_UL_Info (p_ActTime : ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_336_TFS}, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL } }, ulTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx, -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	<p>: For DCH1 (34.108 cl. 6.10.2.4.1.26.1.1.1):</p> <p>TTI = 20 ms;</p> <p>5 transport formats: TB size always=336 bits; TransportBlocks = 0,1,2,3 and 4 ;</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 130</p> <p>For DCH5 (34.108 cl. 6.10.2.4.1.26.1.1.2):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_64kPS_RAB_SRB
Constraint Value	
<pre> { tti tti20 :{{ tb_Size 336, numberOfTbSizeList { zero : NULL, one : NULL, small : 2, small : 3, small : 4}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 150, crc_Size crc16 } } </pre>	
Detailed Comments	: TTI = 20 ms; 5 transport formats: TB size always=336 bits; TransportBlocks = 0,1,2,3 and 4 ; coding = turbo; CRCsize = 16; RateMatching = 150

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_576_148_DL_Info(p_ActTime: ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH1, dl_TransportChannelType dch, transportChannelInfo c_DCH_576_TFS}, { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL } }, dlTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) } </pre>	
Detailed Comments	<p>: For DCH1 (34.108 cl. 6.10.2.4.17):</p> <p>TTI = 40 ms;</p> <p>five transport formats: TransportBlocks = 0, TB size = 576 bits; TansportBlock = 1, Size = 576 bits; TransportBlocks = 2, TB size = 576 bits; TansportBlock = 3, Size = 576 bits; TransportBlocks = 4, TB size = 576 bits.</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 125</p> <p>For DCH5 (34.108 cl. 6.10.2.4.17):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_576_148_UL_Info(p_ActTime: ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_576_TFS}, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL } }, ulTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx , -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	<p>: For DCH1 (34.108 cl. 6.10.2.4.17):</p> <p>TTI = 40 ms;</p> <p>five transport formats: TransportBlocks = 0, TB size = 576 bits; TansportBlock = 1, Size = 576 bits; TransportBlocks = 2, TB size = 576 bits; TansportBlock = 3, Size = 576 bits; TransportBlocks = 4, TB size = 576 bits.</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 125</p> <p>For DCH2 (34.108 cl. 6.10.2.4.17):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155..</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_576_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_57_6kCS_RAB_SRB
Constraint Value	
<pre> { tti tti40 :{{tb_Size 576, numberOfTbSizeList { zero : NULL, one : NULL, small : 2, small : 3, small : 4}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 145, crc_Size crc16 } } </pre>	
Detailed Comments	: 3GPP TS 34.108 clause 6.10.2.4.17 TTI = 40 ms; five transport formats: TransportBlocks = 0, TB size = 576 bits; TansportBlock = 1, Size = 576 bits; TransportBlocks = 2, TB size = 576 bits; TansportBlock = 3, Size = 576 bits; TransportBlocks = 4, TB size = 576 bits. coding = turbo; CRCsize = 16; RateMatching = 125

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_576_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_57_6kCS_RAB_SRB for message sent to UE
Constraint Value	
<pre> { tti tti40 : { { rlc_Size octetModeType1 : sizeType2 : {part1 9, part2 2}, numberOfTbSizeList { zero : NULL, one : NULL, small : 2, small : 3, small : 4}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 145, crc_Size crc16 } } </pre>	
Detailed Comments : 3GPP TS 34.108 clause 6.10.2.4.17 TTI = 40 ms; five transport formats: TransportBlocks = 0, TB size = 576 bits; TansportBlock = 1, Size = 576 bits; TransportBlocks = 2, TB size = 576 bits; TansportBlock = 3, Size = 576 bits; TransportBlocks = 4, TB size = 576 bits. rlc_Size = TB_Size (DCH, w/o MUX) coding = turbo; CRCsize = 16; RateMatching = 125	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_60_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#3 on dedicated channel
Constraint Value	
<pre> { tti tti20 : { { tb_Size 60, numberOfTbSizeList { zero : NULL, one : NULL }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 235, crc_Size crc0 } } </pre>	
Detailed Comments : TS 34.108 subcl. 6.10.2.4.1.4: TTI = 20 ms; two transport formats: TransportBlocks = 0, TB size = 60 bits; TansportBlock = 1, Size = 60. coding = convolutional; coding rate = 1/2; CRCsize = N/A; RateMatching = 235	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_60_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#3 on dedicated channel used in message sent to UE
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size bitMode : sizeType1: 60, numberOfTbSizeList { zero : NULL, one : NULL }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 235, crc_Size crc0 } } </pre>	
Detailed Comments	: TS 34.108 subcl. 6.10.2.4.1.4: TTI = 20 ms; two transport formats: TransportBlocks = 0, TB size = 60 bits; TansportBlock = 1, Size = 60. rlc_Size = TB_Size (DCH, w/o MUX) coding = convolutional; coding rate = 1/2; CRCsize = N/A; RateMatching = 235

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_640_148_DL_Info(p_ActTime: ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH1, dl_TransportChannelType dch, transportChannelInfo c_DCH_640_TFS}, { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL} }, dlTFCS c_TFCS_Cmpl0_1_2_3_Tx (c_PowerOffsetInfoHigher64k) --- sent to SS } </pre>	
Detailed Comments	<p>: For DCH1 (34.108 cl. 6.10.2.4.13):</p> <p>TTI = 20 ms;</p> <p>two transport formats: TransportBlocks = 0, TB size = 640 bits; TransportBlocks = 2, TB size = 640 bits.</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 150</p> <p>For DCH5 (34.108 cl. 6.10.2.4.13):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_640_148_UL_Info(p_ActTime: ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_640_TFS}, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL} }, ulTFCS c_TFCS_Cmpl0_1_2_3_Rx , -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	<p>: For DCH1 (34.108 cl. 6.10.2.4.13):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 0, TB size = 640 bits; TansportBlock = 2, Size = 640 bits.</p> <p>coding = turbo;</p> <p>CRCsize = 16;</p> <p>RateMatching = 150</p> <p>For DCH5 (34.108 cl. 6.10.2.4.13):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_640_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_64kCS_RAB_SRB
Constraint Value	
<pre> { tti tti20 :{ { tb_Size 640, numberOfTbSizeList { zero : NULL, small : 2}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 172, crc_Size crc16 } } </pre>	
Detailed Comments : For DCH1 (34.108 cl. 6.10.2.4.13): TTI = 20 ms; two transport formats: TransportBlocks = 2, TB size = 640 bits; TansportBlock = 0, Size = 640. coding = turbo; CRCsize = 16; RateMatching = 172	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_640_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_64kCS_RAB_SRB for message sent to UE
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size octetModeType1 : sizeType2 : {part1 11, part2 2}, numberOfTbSizeList { zero : NULL, small : 2}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 172, crc_Size crc16 } } </pre>	
Detailed Comments : For DCH1 (34.108 cl. 6.10.2.4.13): TTI = 20 ms; two transport formats: TransportBlocks = 2, TB size = 640 bits; TansportBlock = 0, Size = 640. rlc_Size = TB_Size (DCH, w/o MUX) coding = turbo; CRCsize = 16; RateMatching = 172	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_81_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#1 on dedicated channel
Constraint Value	
<pre> { tti tti20 :{ { tb_Size 81, numberOfTbSizeList { zero : NULL }, logicalChannelList allSizes : NULL }, { tb_Size 39, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL }, { tb_Size 81, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL } }, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 200, crc_Size crc12 } } </pre>	
Detailed Comments	: TS 34.108 cl. 6.10.2.4.1.4: TTI = 20 ms; three transport formats: TransportBlocks = 0, TB size = 81 bits; TransportBlocks = 1, TB size = 39 bits; TransportBlock = 1, Size = 81. coding = convolutional; coding rate = 1/3; CRCsize = 12; RateMatching = 200

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_81_TFS_DL
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#1 on dedicated channel
Constraint Value	
<pre> { tti tti20 :{ { tb_Size 0, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL }, { tb_Size 39, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL }, { tb_Size 81, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL } }, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 200, crc_Size crc12 } } </pre>	
Detailed Comments	: TS 34.108 cl. 6.10.2.4.1.4: TTI = 20 ms; three transport formats: TransportBlocks = 1, TB size = 0 bits; TransportBlocks = 1, TB size = 39 bits; TransportBlock = 1, Size = 81. coding = convolutional; coding rate = 1/3; CRCsize = 12; RateMatching = 200

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_81_TFS_DL_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#1 on dedicated channel
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size bitMode : sizeType1: 0, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL }, { rlc_Size bitMode : sizeType1 : 39, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL }, { rlc_Size bitMode : sizeType1 : 81, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL } }, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 200, crc_Size crc12 } } </pre>	
Detailed Comments	: TS 34.108 cl. 6.10.2.4.1.4: TTI = 20 ms; three transport formats: TransportBlocks = 1, TB size = 0 bits; TransportBlocks = 1, TB size = 39 bits; TransportBlock = 1, Size = 81. coding = convolutional; coding rate = 1/3; CRCsize = 12; RateMatching = 200

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_81_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RAB subflow#1 on dedicated channel used in message sent to UE
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size bitMode : sizeType1: 81, numberOfTbSizeList { zero : NULL }, logicalChannelList allSizes : NULL }, { rlc_Size bitMode : sizeType1 : 39, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL }, { rlc_Size bitMode : sizeType1: 81, numberOfTbSizeList { one : NULL }, logicalChannelList allSizes : NULL } }, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 200, crc_Size crc12 } } </pre>	
Detailed Comments	: TS 34.108 cl. 6.10.2.4.1.4: TTI = 20 ms; three transport formats: TransportBlocks = 0, TB size = 81 bits; TransportBlocks = 1, TB size = 39 bits; TansportBlock = 1, Size = 81. rlc_Size = TB_Size (DCH, w/o MUX) coding = convolutional; coding rate = 1/3; CRCsize = 12; RateMatching = 200

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfo_WithoutQuality (p_DITrChId:TransportChannelIdentity; p_UITrChId:TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch, dl_transportChannelIdentity p_DITrChId, tfs_SignallingMode sameAsULTrCH : { ul_TransportChannelType dch, ul_TransportChannelIdentity p_UITrChId }, dch_QualityTarget OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListTM_12_2k
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ { dl_TransportChannelType dch, dl_transportChannelIdentity tsc_DL_DCH1, tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_81_TFS_DL_UE, dch_QualityTarget OMIT }, c_DL_AddReconfTransChInfo_WithoutQuality(tsc_DL_DCH2, tsc_UL_DCH2), c_DL_AddReconfTransChInfo_WithoutQuality(tsc_DL_DCH3, tsc_UL_DCH3), c_DL_AddReconfTransChInfo(tsc_DL_DCH5, tsc_UL_DCH5) }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListTM_57_6k
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfo(tsc_DL_DCH1, tsc_UL_DCH1), c_DL_AddReconfTransChInfo(tsc_DL_DCH5, tsc_UL_DCH5) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListTM_64k
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfo(tsc_DL_DCH1, tsc_UL_DCH1), c_DL_AddReconfTransChInfo(tsc_DL_DCH5, tsc_UL_DCH5) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationRB_SetUpSpeech (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon{ cfnHandling maintain :NULL, modeSpecificInfo fdd:{ dl_DPCH_PowerControlInfo { modeSpecificInfo fdd:{ dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible fixed, tfci_Existence FALSE } }, modeSpecificInfo fdd:{ defaultDPCH_OffsetValue OMIT, dpch_CompressedModelInfo OMIT , tx_DiversityMode noDiversity, ssdt_Information OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoListTM_57_6k (p_Reestimer: Re_EstablishmentTimer; p_RAB_Id: BITSTRING; p_RLC_Info: RLC_Info) Group : ASN1 Type : RAB_InformationSetupList Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { { rab_Info { rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id, cn_DomainIdentity cs_domain, re_EstablishmentTimer p_Reestimer }, rb_InformationSetupList {{ rb_Identity tsc_RB10, pdcp_Info OMIT, rlc_InfoChoice rlc_Info : p_RLC_Info, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel:{ ul_TransportChannelType dch: tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured :NULL, mac_LogicalChannelPriority 7 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch: tsc_DL_DCH1, logicalChannelIdentity OMIT }} }} }} } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoListTM_64k (p_Reestimer: Re_EstablishmentTimer; p_RAB_Id: BITSTRING; p_RLC_Info: RLC_Info) Group : ASN1 Type : RAB_InformationSetupList Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { { rab_Info { rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id, cn_DomainIdentity cs_domain, re_EstablishmentTimer p_Reestimer }, rb_InformationSetupList {{ rb_Identity tsc_RB10, pdcp_Info OMIT, rlc_InfoChoice rlc_Info : p_RLC_Info, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel:{ ul_TransportChannelType dch: tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured :NULL, mac_LogicalChannelPriority 7 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch: tsc_DL_DCH1, logicalChannelIdentity OMIT }} }} }} } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoSetupDCH_PS_64k (p_Reestimer: Re_EstablishmentTimer; p_RAB_Id: BITSTRING; p_RLC_Info: RLC_Info) Group : ASN1 Type : RAB_InformationSetup Derivation Path : Encoding Variation : Comments : –	
Constraint Value	
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id, cn_DomainIdentity ps_domain, re_EstablishmentTimer p_Reestimer }, rb_InformationSetupList {{ rb_Identity tsc_RB20, pdcp_Info { losslessSRNS_RelocSupport notSupported : NULL, pdcp_PDU_Header absent, headerCompressionInfoList OMIT }, rlc_InfoChoice rlc_Info : p_RLC_Info, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch : tsc_DL_DCH1, logicalChannelIdentity OMIT }} }} }, { --RB_MappingInfo ul_LogicalChannelMappings oneLogicalChannel:{ --UL_LogicalChannelMapping, ul_TransportChannelType rach: NULL, logicalChannelIdentity tsc_UL_DTCH1, rlc_SizeList explicitList : { { rlc_SizeIndex 2 } }, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType fach:NULL, logicalChannelIdentity tsc_DL_DTCH1 }} }} }} } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RAB_InfoSetupTM_12_2k (p_ReEstTimer : Re_EstablishmentTimer ; p_RAB_Id : BITSTRING)
Group	:
ASN1 Type	: RAB_InformationSetup
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id, cn_DomainIdentity cs_domain, re_EstablishmentTimer p_ReEstTimer }, rb_InformationSetupList {{ --RB_InformationSetupList rb_Identity tsc_RB10, pdcp_Info OMIT, rlc_InfoChoice rlc_Info : c_RLC_InfoTM_Def, rb_MappingInfo {{ --RB_MappingOption ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 6 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch : tsc_DL_DCH1, logicalChannelIdentity OMIT }} }} }, { rb_Identity tsc_RB11, pdcp_Info OMIT, rlc_InfoChoice rlc_Info : c_RLC_InfoTM_Def, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel:{ ul_TransportChannelType dch: tsc_UL_DCH2, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 6 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch: tsc_DL_DCH2, logicalChannelIdentity OMIT }} }} }, { rb_Identity tsc_RB12, pdcp_Info OMIT, rlc_InfoChoice rlc_Info : c_RLC_InfoTM_Def, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel:{ ul_TransportChannelType dch: tsc_UL_DCH3, logicalChannelIdentity OMIT, rlc_SizeList configured :NULL, mac_LogicalChannelPriority 6 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch: tsc_DL_DCH3, </pre>	

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre>logicalChannelIdentity OMIT }} }} }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_ReEstTimerT314	
Group :	
ASN1 Type : Re_EstablishmentTimer	
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
useT314	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_RLC_InfoTM_Def	
Group :	
ASN1 Type : RLC_Info	
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre>{ ul_RLC_Mode ul_TM_RLC_Mode:{ transmissionRLC_Discard OMIT, segmentationIndication FALSE }, dl_RLC_Mode dl_TM_RLC_Mode:{ segmentationIndication FALSE } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_11_12_13_23_Rx
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information without power offset information – for receiver
Constraint Value	
<pre> normalTFCl_Signalling : complete : { ctfcSize ctfc6Bit:{ { ctfc6 0, powerOffsetInformation OMIT }, { ctfc6 1, powerOffsetInformation OMIT }, { ctfc6 11, powerOffsetInformation OMIT }, { ctfc6 12, powerOffsetInformation OMIT }, { ctfc6 13, powerOffsetInformation OMIT }, { ctfc6 23, powerOffsetInformation OMIT } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_11_12_13_23_Tx (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter
Constraint Value	
<pre> normalTFCl_Signalling : complete : { ctfcSize ctfc6Bit:{ { ctfc6 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 11, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 12, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 13, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 23, powerOffsetInformation p_PowerOffsetInformation } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoDL_122_AMR
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dlconnectedTrCHList { { trchid tsc_DL_DCH1, transportChannelInfo c_DCH_81_TFS_DL }, { trchid tsc_DL_DCH2, transportChannelInfo c_DCH_103_TFS }, { trchid tsc_DL_DCH3, transportChannelInfo c_DCH_60_TFS }, { trchid tsc_DL_DCH5, transportChannelInfo c_DCH_148_TFS_DL } }, dlTFCS c_TFCS_Cmpl0_1_11_12_13_23_Tx (c_PowerOffsetInfoBelow64k) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_TrChInfoDL_336_148
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dlconnectedTrCHList { { trchid tsc_DL_DCH1, transportChannelInfo c_DCH_336_TFS}, { trchid tsc_DL_DCH5, transportChannelInfo c_DCH_148_TFS_DL}}, dlTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoDL_576_148
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dlconnectedTrCHList { { trchid tsc_DL_DCH1, transportChannelInfo c_DCH_576_TFS}, { trchid tsc_DL_DCH5, transportChannelInfo c_DCH_148_TFS_DL }}, dlTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) --- sent to SS }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoDL_640_148
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dlconnectedTrCHList { { trchid tsc_DL_DCH1, transportChannelInfo c_DCH_640_TFS}, { trchid tsc_DL_DCH5, transportChannelInfo c_DCH_148_TFS_DL }}, dlTFCS c_TFCS_Cmpl0_1_2_3_Tx (c_PowerOffsetInfoHigher64k) --- sent to SS }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoUL_122_AMR
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_UL_DCH1, transportChannelInfo c_DCH_81_TFS }, { trchid tsc_UL_DCH2, transportChannelInfo c_DCH_103_TFS }, { trchid tsc_UL_DCH3, transportChannelInfo c_DCH_60_TFS }, { trchid tsc_UL_DCH5, transportChannelInfo c_DCH_148_TFS_UL } }, ulTFCS c_TFCS_Cmpl0_1_11_12_13_23_Rx -- sent to SS } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_TrChInfoUL_336_148
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_UL_DCH1, transportChannelInfo c_DCH_336_TFS }, { trchid tsc_UL_DCH5, transportChannelInfo c_DCH_148_TFS_UL }}, ulTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx -- sent to SS } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoUL_576_148
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ulconnectedTrCHList { { trchid tsc_UL_DCH1, transportChannelInfo c_DCH_576_TFS }, { trchid tsc_UL_DCH5, transportChannelInfo c_DCH_148_TFS_UL }}, ulTFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx -- sent to SS }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoUL_640_148
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ulconnectedTrCHList { { trchid tsc_UL_DCH1, transportChannelInfo c_DCH_640_TFS }, { trchid tsc_UL_DCH5, transportChannelInfo c_DCH_148_TFS_UL }}, ulTFCS c_TFCS_Cmpl0_1_2_3_Rx -- sent to SS }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingDL_4DCCH_1DTCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 7 }, rB_Identity tsc_RB10 } }, }, { trchid tsc_DL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH1, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB1 }, }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH2, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 2 }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH3, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 3 }, rB_Identity tsc_RB3 }, }, }, } </pre>	

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre>{ logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH4, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 4 }, rB_Identity tsc_RB4 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_TrLogMappingDL_4DCCH_1DTCH_PS
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, rB_Identity tsc_RB20 } }, }, { trchid tsc_DL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH1, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB1 }, }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH2, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 2 }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH3, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 3 }, rB_Identity tsc_RB3 }, }, }, } </pre>	

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre>{ logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH4, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 4 }, rB_Identity tsc_RB4 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingDL_4DCCH_3DTCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 6 }, rB_Identity tsc_RB10 } } }, { trchid tsc_DL_DCH2, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH2, logicalChannelType dTCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 6 }, rB_Identity tsc_RB11 } } }, { trchid tsc_DL_DCH3, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH3, logicalChannelType dTCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 6 }, rB_Identity tsc_RB12 } } }, { trchid tsc_DL_DCH5, trCH_LogCHMappingList { { </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH1, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB1 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH2, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 2 }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH3, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 3 }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH4, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 4 }, rB_Identity tsc_RB4 } } } } } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingUL_4DCCH_1DTCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_UL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DTCH1, logicalChannelType dTCH }, rB_Identity tsc_RB10 } }, { trchid tsc_UL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH1, logicalChannelType dCCH }, rB_Identity tsc_RB1 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH2, logicalChannelType dCCH }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH3, logicalChannelType dCCH }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH4, logicalChannelType dCCH }, rB_Identity tsc_RB4 } } } } } </pre>	

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre>} } } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_TrLogMappingUL_4DCCH_1DTCH_PS
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_UL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DTCH1, logicalChannelType dTCH }, rB_Identity tsc_RB20 } }, { trchid tsc_UL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH1, logicalChannelType dCCH }, rB_Identity tsc_RB1 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH2, logicalChannelType dCCH }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH3, logicalChannelType dCCH }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH4, logicalChannelType dCCH }, rB_Identity tsc_RB4 } } } } } </pre>	

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre>} } } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingUL_4DCCH_3DTCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_UL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DTCH1, logicalChannelType dTCH }, rB_Identity tsc_RB10 } } }, { trchid tsc_UL_DCH2, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DTCH2, logicalChannelType dTCH }, rB_Identity tsc_RB11 } } }, { trchid tsc_UL_DCH3, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DTCH3, logicalChannelType dTCH }, rB_Identity tsc_RB12 } } }, { trchid tsc_UL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH1, logicalChannelType dCCH }, rB_Identity tsc_RB1 } } } } } </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH2, logicalChannelType dCCH }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH3, logicalChannelType dCCH }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH4, logicalChannelType dCCH }, rB_Identity tsc_RB4 } } }, dlconnectedTrCHList OMIT } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListTM_12_2k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH1, transportFormatSet dedicatedTransChTFS: c_DCH_81_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH2, transportFormatSet dedicatedTransChTFS: c_DCH_103_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH3, transportFormatSet dedicatedTransChTFS: c_DCH_60_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListTM_57_6k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> {{ ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH1, transportFormatSet dedicatedTransChTFS: c_DCH_576_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListTM_64k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH1, transportFormatSet dedicatedTransChTFS: c_DCH_640_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoTM_12_2k
Group	:
ASN1 Type	: UL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_1_11_12_13_23_Tx (c_PowerOffsetInfoBelow64k) } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoTM_57_6k
Group	:
ASN1 Type	: UL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoBelow64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoTM_64k
Group	:
ASN1 Type	: UL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_1_2_3_Tx (c_PowerOffsetInfoHigher64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_DPCH_122_AMR (p_DL_CommonInformation : DL_CommonInformation; p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_DPCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList { { secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber tsc_DL_DPCH1_ChC_Speech } }, tpc_CombinationIndex 0 }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_BSIC(p_NCC : NCC; p_BCC : BCC)
Group	:
ASN1 Type	: BSIC
Derivation Path	:
Encoding Variation	:
Comments	: Used to set the BSIC value of GPRS cell configuration.
Constraint Value	
<pre> { ncc p_NCC, bcc p_BCC } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_InterRAT_TargetCellDescription(p_BSIC: BSIC; p_Freq_Band: Frequency_Band; p_BCCH_ARFCN: BCCH_ARFCN; p_NC_Mode: NC_Mode)
Group	:
ASN1 Type	: InterRAT_TargetCellDescription
Derivation Path	:
Encoding Variation	:
Comments	: Includes the cell descption of target GSM cell for InterRAT Cell Change Order procedure.
Constraint Value	
<pre> { technologySpecificInfo gsm:{ bsic p_BSIC, frequency_band p_Freq_Band, bcch_ARFCN p_BCCH_ARFCN, ncMode p_NC_Mode } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_3_Intra3_Inter2_InterRAT_Def (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg ; p_InterRAT_1, p_InterRAT_2 : G_CellConfigInfo)
Group	:
ASN1 Type	: SysInfoType11
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 11. To be used by cell A,B,C,G and H (3 intra, 3 inter, 3InterRAT)
Constraint Value	
<pre> { sib12indicator TRUE, measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removeNoIntraFreqCells in SIB11 is not used and ignored by the UE newIntraFreqCellList { intraFreqCellID p_ActiveCellInfo.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellInfo.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT } }, }, { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo2.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { intraFreqCellID p_IntraCellInfo3.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo3.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }, intraFreqMeasQuantity { filterCoefficient OMIT, -- default value modeSpecificInfo fdd : { </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> intraFreqMeasQuantity_FDD cpich_RSCP } }, reportingInfoForCellDCH { intraFreqReportingQuantity { activeSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator FALSE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } }, monitoredSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator TRUE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } }, measurementReportingMode { measurementReportTransferMode acknowledgedModeRLC, periodicalOrEventTrigger eventTrigger }, reportCriteria intraFreqReportingCriteria : { eventCriteriaList {{ event e1a : { triggeringCondition monitoredSetCellsOnly, reportingRange 5, w 1, reportDeactivationThreshold t2, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1b : { triggeringCondition activeSetCellsOnly, reportingRange 5, forbiddenAffectCellList OMIT, w 1}, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1c : { replacementActivationThreshold t3, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 } } } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }} } }, interFreqMeasurementSysInfo { interFreqCellInfoSI_List { removedInterFreqCellList OMIT, newInterFreqCellList { { interFreqCellID p_InterCellInfo6.cellId, frequencyInfo p_InterCellInfo6.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo6.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo7.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo7.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo8.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo8.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } } }} }, interRATMeasurementSysInfo { interRATCellInfoList { removedInterRATCellList removeNoInterRATCells : NULL, newInterRATCellList { { interRATCellID o_OctToInt (p_InterRAT_1.cellIdentity), technologySpecificInfo gsm : { cellSelectionReselectionInfo OMIT, interRATCellIndividualOffset 0, bsic { ncc BIT_TO_INT (p_InterRAT_1.ncc), bcc BIT_TO_INT (p_InterRAT_1.bcc) }, </pre>

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ASN.1 Type Constraint Declaration	
	Constraint Value
	<pre>frequency_band p_InterRAT_1.bandIndicatorAsn1, bcch_ARFCN BIT_TO_INT (p_InterRAT_1.bCCH_Freq) } }, { interRATCellID o_OctToInt (p_InterRAT_2.cellIdentity), technologySpecificInfo gsm : { cellSelectionReselectionInfo OMIT, interRATCellIndividualOffset 0, bsic { ncc BIT_TO_INT (p_InterRAT_2.ncc), bcc BIT_TO_INT (p_InterRAT_2.bcc) }, frequency_band p_InterRAT_2.bandIndicatorAsn1, bcch_ARFCN BIT_TO_INT (p_InterRAT_2.bCCH_Freq) } } } } } } --nonCriticalExtensions OMIT }</pre>
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_3_Intra3_Inter2_InterRAT_Def (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo1, p_InterCellInfo2, p_InterCellInfo3 : CellInfoCfg ; p_InterRAT_1, p_InterRAT_2 : G_CellConfigInfo)
Group	:
ASN1 Type	: SysInfoType12
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 11. To be used by cell A,B,C,G and H (5 intra and 3 inter)
Constraint Value	
<pre> { measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList removeNoIntraFreqCells : NULL, newIntraFreqCellList { { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo2.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell }, }, { intraFreqCellID p_IntraCellInfo3.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo3.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell }, } }, }, }, }, intraFreqMeasQuantity { filterCoefficient OMIT, -- default value modeSpecificInfo fdd : { intraFreqMeasQuantity_FDD cpich_RSCP }, }, reportingInfoForCellDCH { intraFreqReportingQuantity { activeSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator FALSE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } }, }, }, }, }, } </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> monitoredSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator TRUE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } }, measurementReportingMode { measurementReportTransferMode acknowledgedModeRLC, periodicalOrEventTrigger eventTrigger }, reportCriteria intraFreqReportingCriteria : { eventCriteriaList {{ event e1a : { triggeringCondition monitoredSetCellsOnly, reportingRange 5, w 1, reportDeactivationThreshold t2, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger tt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1b : { triggeringCondition activeSetCellsOnly, reportingRange 5, forbiddenAffectCellList OMIT, w 1}, hysteresis 0, timeToTrigger tt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1c : { replacementActivationThreshold t3, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger tt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 } }} }, interFreqMeasurementSysInfo { interFreqCellInfoSI_List { removedInterFreqCellList OMIT, newInterFreqCellList { { interFreqCellID p_InterCellInfo1.cellId, frequencyInfo p_InterCellInfo1.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre>--nonCriticalExtensions OMIT }</pre>
Detailed Comments :

ASN.1 Type Constraint Declaration
Constraint Name : c_AICH_Info Group : ASN1 Type : AICH_Info Derivation Path : Encoding Variation : Comments : no transmission diversity, AICH timing = e0
Constraint Value
<pre>{ channelisationCode256 tsc_AICH1_ChC, sttd_Indicator FALSE, aich_TransmissionTiming e0 }</pre>
Detailed Comments :

ASN.1 Type Constraint Declaration
Constraint Name : c_DCH_148_TFS_DL Group : ASN1 Type : CommonOrDedicatedTFS Derivation Path : Encoding Variation : Comments : transport format set for signalling bearer on dedicated channel
Constraint Value
<pre>{ tti tti40 :{{ tb_Size 148, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 170, crc_Size crc16 } }</pre>
Detailed Comments : TS 34.108 cl. 6.10.2.4.1.2: TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU size =148 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 170

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_TFS_UE_UL
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for signalling bearer on dedicated channel used in message sent to UE
Constraint Value	
<pre> { tti40 :{{ rlc_Size bitMode : sizeType2 : {part1 2, part2 OMIT}, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 170, crc_Size crc16 } } </pre>	
Detailed Comments : TS 34.108 cl. 6.10.2.4.1.2: TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU size = TB_Size -4 =144 bits.(DCH, w/ MUX) coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 170	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_TFS_UL
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for signalling bearer on dedicated channel
Constraint Value	
<pre> { tti40 :{{ tb_Size 148, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 170, crc_Size crc16 } } </pre>	
Detailed Comments : TS 34.108 cl. 6.10.2.4.1.2: TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU size =148 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 170	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_TTI_10_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for signalling bearer on dedicated channel
Constraint Value	
<pre> { tti10 :{{ tb_Size 148, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 192, -- dummy value, value is not needed for 13.6 kbps crc_Size crc16 } } </pre>	
Detailed Comments : TS 34.108 cl. 6.10.2.4.1.3: TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU size =148 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 192 (dummy value, value is not needed for 13.6 kbps)	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_TTI_10_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for signalling bearer on dedicated channel used in message sent to UE
Constraint Value	
<pre> { tti10 :{{ rlc_Size bitMode : sizeType2 : {part1 2, part2 OMIT}, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional :third, rateMatchingAttribute 192, -- dummy value, value is not needed for 13.6 kbps crc_Size crc16 } } </pre>	
Detailed Comments : TS 34.108 cl. 6.10.2.4.1.3: TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU size = TB_Size -4 =144 bits.(DCH, w/ MUX) coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 192	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_TFS_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_64kPS_RAB_SRB for message sent to UE
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size octetModeType1 : sizeType2 : {part1 2, part2 OMIT}, numberOfTbSizeList { zero : NULL, one : NULL, small : 2, small : 3, small : 4 }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 150, crc_Size crc16 } } </pre>	
Detailed Comments	: 3GPP TS 34.108 clause 6.10.2.4.1.24 TTI = 20 ms; 5 transport formats: TB size always=336 bits; TransportBlocks = 0,1,2,3 and 4 ; rlsc_Size = TB_Size (DCH, w/o MUX) coding = turbo; CRCsize = 16; RateMatching = 150

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfo (<p>p_DITrChId:TransportChannelIdentity;</p> <p>p_UITrChId:TransportChannelIdentity</p>)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_TransportChannelType dch, dl_transportChannelIdentity p_DITrChId, tfs_SignallingMode sameAsULTrCH : { ul_TransportChannelType dch, ul_TransportChannelIdentity p_UITrChId }, dch_QualityTarget{ bler_QualityValue -20 } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListDCCH_SRB
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfo(tsc_DL_DCH5,tsc_UL_DCH5) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListDCH_PS_64k
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfo (tsc_DL_DCH1 , tsc_UL_DCH1), c_DL_AddReconfTransChInfo (tsc_DL_DCH5, tsc_UL_DCH5) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationDCH_DPCH_Offset (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon{ cfnHandling initialise : { cfnTargetsfnframeoffset OMIT }, modeSpecificInfo fdd:{ dl_DPCH_PowerControlInfo { modeSpecificInfo fdd:{ dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible flexible, tfci_Existence TRUE } }, modeSpecificInfo fdd:{ defaultDPCH_OffsetValue tsc_DefaultDPCH_OffsetValue, dpch_CompressedModelInfo OMIT, tx_DiversityMode noDiversity, ssdt_Information OMIT } } </pre>	
Detailed Comments	: NOTE : not aligned with 34.108. Reason:The value 'inactive' in 34.018 is not valid with asn.1 definition v360

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationRB_SetUp (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon{ cfnHandling maintain :NULL, modeSpecificInfo fdd:{ dl_DPCH_PowerControlInfo { modeSpecificInfo fdd:{ dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible flexible, tfci_Existence TRUE } }, modeSpecificInfo fdd:{ defaultDPCH_OffsetValue OMIT, dpch_CompressedModeInfo OMIT , tx_DiversityMode noDiversity, ssdt_Information OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonTransChInfoDCH(p_Tfcs:TFCS)
Group	:
ASN1 Type	: DL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { sccpch_TFCS OMIT, modeSpecificInfo fdd: { dl_Parameters dl_DCH_TFCS : p_Tfcs } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonTransChInfoSameAsUL
Group	:
ASN1 Type	: DL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ sccpch_TFCS OMIT, modeSpecificInfo fdd:{ dl_Parameters sameAsUL: NULL } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InfoPerRL_DPCH_Offset (p_ScrambCode : PrimaryScramblingCode ; p_SecScrambCode : SecondaryScramblingCode ; p_Sf : SF512_AndCodeNumber)
Group	:
ASN1 Type	: DL_InformationPerRL_List
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{{ modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrambCode } , pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecScrambCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex tsc_TPC_CombinationIndex, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT }}</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InformationPerRL (p_ScrambCode: PrimaryScramblingCode; p_Sf: SF512_AndCodeNumber; p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_InformationPerRL_List
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> {{ modeSpecificInfo fdd: { primaryCPICH_Info { primaryScramblingCode p_ScrambCode }, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber p_Sf, scramblingCodeChange OMIT }}, tpc_CombinationIndex tsc_TPC_CombinationIndex, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT }} </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_FACH_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for FACH
Constraint Value	
<pre> { tti tti10 :{ { tb_Size 168, numberOfTbSizeList { zero : NULL, one : NULL, small : 2 }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 220, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; three transport formats: TransportBlocks = 2, TB size = 168 bits; TransportBlocks = 1, TB size = 168 bits; TransportBlock = 0, Size = 168. coding = convolutional; rate = 1/2; CRCsize = 16; RateMatching = 220	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_FACH_TFS_PS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for FACH (PS) used for SS configuration
Constraint Value	
<pre> { tti tti10 :{ { tb_Size 360, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo : NULL, rateMatchingAttribute 130, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 360 bits; TransportBlock = 0, Size = 360. coding = turbo; CRCsize = 16; RateMatching = 130	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_FACH_TFS_PS_UE
Group	:
ASN1 Type	: CommonTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for FACH (PS)
Constraint Value	
<pre> { tti tti10 :{ { rlc_Size fdd : {octetModeRLC_SizeInfoType2 sizeType2: 3}, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo : NULL, rateMatchingAttribute 130, crc_Size crc16 } } </pre>	
Detailed Comments	: TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 360 bits; TansportBlock = 0, Size = 360. rlc_Size = TB_Size (FACH) coding = turbo; CRCsize = 16; RateMatching = 130

ASN.1 Type Constraint Declaration	
Constraint Name	: c_FACH_TFS_UE
Group	:
ASN1 Type	: CommonTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for FACH
Constraint Value	
<pre> { tti10 : { { rlc_Size fdd : {octetModeRLC_SizeInfoType2 sizeType1: 15}, numberOfTbSizeList { zero : NULL, one : NULL, small : 2}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 220, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; three transport formats: TransportBlocks = 2, TB size = 168 bits; TransportBlocks = 1, TB size = 168 bits; TransportBlock = 0, Size = 168. rlc_Size = TB_Size (FACH) coding = convolutional; rate = 1/2; CRCsize = 16; RateMatching = 220	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_FreqInfo (p_uarfcnUL , p_uarfcnDL : UARFCN)
Group	:
ASN1 Type	: FrequencyInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { modeSpecificInfo fdd: { uarfcn_UL p_uarfcnUL , uarfcn_DL p_uarfcnDL } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MAC_PagingCfg(p_E18: B18; p_dRX : INTEGER)
Group	:
ASN1 Type	: CmacPagingConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ pl_BitMapInfo e18: p_E18, dRX_CycleLength p_dRX, iMSI o_ConvertIMSI(px_IMSI_Def), t_pich_T_sccpch FALSE }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_MIB_Def (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: MasterInformationBlock
Derivation Path	:
Encoding Variation	:
Comments	: Default setting of MIB. 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre> { mib_ValueTag 1, plmn_Type gsm_MAP : { plmn_Identity { mcc o_HexToDigitsMCC (p_CellInfo.mcc), mnc o_HexToDigitsMNC (p_CellInfo.mnc) } }, sibSb_ReferenceList { { sibSb_Type sysInfoTypeSB1 : 1, scheduling {scheduling { sib_Pos rep16 : 1 }} }, { sibSb_Type sysInfoType1 : 1, scheduling {scheduling { sib_Pos rep64 : 11 }} }, { sibSb_Type sysInfoType2 : 1, scheduling {scheduling { sib_Pos rep64 : 11 }} }, { sibSb_Type sysInfoType3 : 1, scheduling {scheduling { sib_Pos rep64 : 10 }} }, { sibSb_Type sysInfoType4 : 1, scheduling {scheduling { sib_Pos rep64 : 26 }} }, { sibSb_Type sysInfoType5 : 1, scheduling {scheduling { segCount 4, sib_Pos rep64 : 19, sib_PosOffsetInfo {so4, so2, so2} }} } } } </pre>	
Detailed Comments	<p>: Assum no segmentation for SIB1, SIB2, SIB3, SIB4.</p> <p>Contains scheduling informations for SIB1, SIB2, SIB3, SIB4, SIB5 and SB1 only, the scheduling information for other SIBs are in SysInfoTypeSB1.</p> <p>The value 1 of valueTags is a place holder. actual values of them will be non-zero and assigned dynamically in various SendSystemInformation test Steps.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PCH_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for PCH
Constraint Value	
<pre> { tti tti10 :{ { tb_Size 240, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 230, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 240 bits; TansportBlock = 0, Size = 240. coding = convolutional; rate = 1/2; CRCsize = 16; RateMatching = 230	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PCH_TFS_UE
Group	:
ASN1 Type	: CommonTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for PCH
Constraint Value	
<pre> { tti tti10 :{ { rlc_Size fdd : {octetModeRLC_SizeInfoType2 sizeType1: 24}, numberOfTbSizeList { zero : NULL, one : NULL}, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 230, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 240 bits; TansportBlock = 0, Size = 240. rlc_Size = TB_Size (PCH) coding = convolutional; rate = 1/2; CRCsize = 16; RateMatching = 230	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PagingType1_P_TMSI (p_PagCause : PagingCause; p_P_Tmsi : P_TMSI_GSM_MAP; p_Domain : CN_DomainIdentity)
Group	:
ASN1 Type	: PagingType1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ pagingRecordList { cn_Identity:{ pagingCause p_PagCause, cn_DomainIdentity p_Domain, cn_pagedUE_Identity p_TMSI_GSM_MAP : p_P_Tmsi } }, bcch_ModificationInfo OMIT, laterNonCriticalExtensions OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PagingType1_TMSI (p_PagCause: PagingCause; p_Tmsi: TMSI_GSM_MAP; p_Domain : CN_DomainIdentity)
Group	:
ASN1 Type	: PagingType1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ pagingRecordList { cn_Identity:{ pagingCause p_PagCause, cn_DomainIdentity p_Domain, cn_pagedUE_Identity tmsi_GSM_MAP: p_Tmsi } }, bcch_ModificationInfo OMIT, laterNonCriticalExtensions OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_PichInfo
Group	:
ASN1 Type	: PICH_Info
Derivation Path	:
Encoding Variation	:
Comments	: value for pi_CountPerFrame FFS
Constraint Value	
<pre>fdd :{ channelisationCode256 tsc_PICH1_ChC, pi_CountPerFrame e18, sttd_Indicator FALSE }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoListFACH_PS (p_Reestimer: Re_EstablishmentTimer; p_RAB_Id: BITSTRING; p_RLC_Info: RLC_Info) Group : ASN1 Type : RAB_InformationSetupList Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { { rab_Info { -- RAB_Info rab_Identity gsm_MAP_RAB_Identity : p_RAB_Id, cn_DomainIdentity ps_domain, re_EstablishmentTimer p_Reestimer }, rb_InformationSetupList {{ --RB_InformationSetupList rb_Identity tsc_RB20, pdcp_Info OMIT, rlc_InfoChoice rlc_Info : p_RLC_Info, rb_MappingInfo { { --RB_MappingInfo ul_LogicalChannelMappings oneLogicalChannel:{ --UL_LogicalChannelMapping, ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch : tsc_DL_DCH1, logicalChannelIdentity OMIT }} }}, { --RB_MappingInfo ul_LogicalChannelMappings oneLogicalChannel:{ --UL_LogicalChannelMapping, ul_TransportChannelType rach : NULL, logicalChannelIdentity tsc_UL_DTCH1, rlc_SizeList explicitList : { { rlc_SizeIndex 2} }, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType fach : NULL, logicalChannelIdentity tsc_DL_DTCH1 }} }} } } } } } } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RACH_TFS
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RACH
Constraint Value	
<pre> { tti tti20 :{{ tb_Size 168, numberOfTbSizeList { one : NULL}, logicalChannelList configured : NULL }, { tb_Size 360, numberOfTbSizeList { one : NULL }, logicalChannelList configured : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 150, crc_Size crc16 } } </pre>	
Detailed Comments	: TTI = 20 ms; two transport formats: TransportBlocks = 1, TB size = 168 bits and TransportBlocks = 1, TB size = 360 bits; coding = convolutional; rate = 1/2; CRCsize = 16

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RACH_TFS_UE
Group	:
ASN1 Type	: CommonTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for RACH used in message sent to UE
Constraint Value	
<pre> { tti tti20 :{{ rlc_Size fdd : {octetModeRLC_SizeInfoType2 sizeType1: 15}, numberOfTbSizeList { one : NULL}, logicalChannelList configured : NULL }, { rlc_Size fdd : { octetModeRLC_SizeInfoType2 sizeType2 : 3}, numberOfTbSizeList { one : NULL }, logicalChannelList configured : NULL }}, semistaticTF_Information { channelCodingType convolutional : half, rateMatchingAttribute 150, crc_Size crc16 } } </pre>	
Detailed Comments	: TTI = 20 ms; two transport formats: TransportBlocks = 1, TB size = 168 bits and TransportBlocks = 1, TB size = 360 bits; rlc_Size = TB_Size (RACH) coding = convolutional; rate = 1/2; CRCsize = 16; RateMatching = 1

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB2_IntegrityProtActivationInfoList(p_RRCSN : RRC_MessageSequenceNumber)
Group	:
ASN1 Type	: IntegrityProtActivationInfoList
Derivation Path	:
Encoding Variation	:
Comments	: To Start Integrity on RB2 in UL
Constraint Value	
<pre> {{ rb_Identity tsc_RB2, rrc_MessageSequenceNumber p_RRCSN }} </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_ActTimeInfo(p_RB_Id: INTEGER; p_N: RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ rb_Identity p_RB_Id, rlc_SequenceNumber p_N }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RLC_InfoAM_Def
Group	:
ASN1 Type	: RLC_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_RLC_Mode ul_AM_RLC_Mode: cb_UL_AM_RLC , dl_RLC_Mode dl_AM_RLC_Mode : cb_DL_AM_RLC }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RestRB_IntegrityProtActivationInfoList(p_SN0, p_SN1, p_SN3, p_SN4: RRC_MessageSequenceNumber)
Group	:
ASN1 Type	: IntegrityProtActivationInfoList
Derivation Path	:
Encoding Variation	:
Comments	: To Start Integrity on RB2 in UL
Constraint Value	
<pre> {{ rb_Identity tsc_RB0, rrc_MessageSequenceNumber p_SN0 }, { rb_Identity tsc_RB1, rrc_MessageSequenceNumber p_SN1 }, { rb_Identity tsc_RB3, rrc_MessageSequenceNumber p_SN3 }, { rb_Identity tsc_RB4, rrc_MessageSequenceNumber p_SN4 }} </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SB1_Def
Group	:
ASN1 Type	: SysInfoTypeSB1
Derivation Path	:
Encoding Variation	:
Comments	: Default setting of SB1. scheduling is defined in 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre> { sib_ReferenceList { { sib_Type sysInfoType6 : 1, scheduling {scheduling { segCount 4, sib_Pos rep64 : 3, sib_PosOffsetInfo {so4, so2, so2} }} }, { sib_Type sysInfoType7 : NULL, scheduling {scheduling { sib_Pos rep16 : 2 }} }, { sib_Type sysInfoType11 : 1, scheduling { scheduling { segCount 3, sib_Pos rep64 : 29, sib_PosOffsetInfo {so2, so2} }} }, { sib_Type sysInfoType12 : 1, scheduling { scheduling { segCount 3, sib_Pos rep64 : 13, sib_PosOffsetInfo {so2, so2} }} }, { sib_Type sysInfoType18 : 1, scheduling { scheduling { sib_Pos rep64 : 18 }} } }, nonCriticalExtensions OMIT } </pre>	
Detailed Comments	<p>: Assum no segmentation for SIB7.</p> <p>Contains scheduling informations for SIB6, SIB7, SIB11, SIB12, SIB18 only, the scheduling information for other SIBs may be added later.</p> <p>The value 1 of valueTags is a place holder. actual values of them will be non-zero and assigned dynamically in various SendSystemInformation test Steps.</p>

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SB1_Schedul1
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SB1 of one segment
Constraint Value	
<pre>{ scheduling { sib_Pos rep16 :1 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul1
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of one segment, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 :29 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul2
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of two segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 :29, sib_PosOffsetInfo {so2} } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB11_Schedul3
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB11 of three segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :29, sib_PosOffsetInfo {so2, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul1
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of one segment, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 :13 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul2
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of two segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 : 13, sib_PosOffsetInfo {so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB12_Schedul3
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB12 of three segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :13, sib_PosOffsetInfo {so2, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB18_2PLMN (p_InterCellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType18
Derivation Path	:
Encoding Variation	:
Comments	: The Cell Info will be of the cell of other PLMN
Constraint Value	
<pre>{ idleModePLMNIdentities { plmnsOfIntraFreqCellsList OMIT, plmnsOfInterFreqCellsList {{ plmn_Identity { mcc o_HexToDigitsMCC (p_InterCellInfo.mcc), mnc o_HexToDigitsMNC (p_InterCellInfo.mnc) } }}, plmnsOfInterRATCellsList OMIT }, connectedModePLMNIdentities OMIT, nonCriticalExtensions OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB18_3PLMN (p_Inter1CellInfo, p_Inter2CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType18
Derivation Path	:
Encoding Variation	:
Comments	: The Cell Info will be of the one cell each of other PLMN's
Constraint Value	
<pre> { idleModePLMNIdentities { plmnsOfIntraFreqCellsList OMIT, plmnsOfInterFreqCellsList {{ plmn_Identity { mcc o_HexToDigitsMCC (p_Inter1CellInfo.mcc), mnc o_HexToDigitsMNC (p_Inter1CellInfo.mnc) } },{ plmn_Identity { mcc o_HexToDigitsMCC (p_Inter1CellInfo.mcc), mnc o_HexToDigitsMNC (p_Inter1CellInfo.mnc) } },{ plmn_Identity { mcc o_HexToDigitsMCC (p_Inter1CellInfo.mcc), mnc o_HexToDigitsMNC (p_Inter1CellInfo.mnc) } },{ plmn_Identity { mcc o_HexToDigitsMCC (p_Inter2CellInfo.mcc), mnc o_HexToDigitsMNC (p_Inter2CellInfo.mnc) } } }}, plmnsOfInterRATCellsList OMIT }, connectedModePLMNIdentities OMIT, nonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB18_Def (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType18
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { idleModePLMNIdentities { plmnsOfIntraFreqCellsList OMIT, plmnsOfInterFreqCellsList OMIT, plmnsOfInterRATCellsList OMIT }, connectedModePLMNIdentities OMIT, nonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB2_Def (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType2
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 2
Constraint Value	
<pre> { ura_IdentityList { p_CellInfo.ura_Identity }, nonCriticalExtensions OMIT } </pre>	
Detailed Comments	: for cell 1 and cell 2.

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul1
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of one segment, 3GPP TS 34.123–3 clause 8.4.3
Constraint Value	
<pre> { scheduling { sib_Pos rep64 :19 } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul2
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of two segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 :19, sib_PosOffsetInfo {so4} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul3
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of three segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :19, sib_PosOffsetInfo {so4, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB5_Schedul4
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB5 of four segments, 3GPP TS 34.123-3 clause 8.4.3
Constraint Value	
<pre>{ scheduling { segCount 4, sib_Pos rep64 :19, sib_PosOffsetInfo {so4, so2, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul1
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of one segment
Constraint Value	
<pre>{ scheduling { sib_Pos rep64 : 3 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul2
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of two segments
Constraint Value	
<pre>{ scheduling { segCount 2, sib_Pos rep64 :3, sib_PosOffsetInfo {so4} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul3
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of three segments
Constraint Value	
<pre>{ scheduling { segCount 3, sib_Pos rep64 :3, sib_PosOffsetInfo {so4, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB6_Schedul4
Group	:
ASN1 Type	: SchedulingInformation
Derivation Path	:
Encoding Variation	:
Comments	: SIB6 of four segments
Constraint Value	
<pre>{ scheduling { segCount 4, sib_Pos rep64 :3, sib_PosOffsetInfo {so4, so2, so2} } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SIB7_Def
Group	:
ASN1 Type	: SysInfoType7
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 7
Constraint Value	
<pre>{ modeSpecificInfo fdd : { ul_Interference -100 }, prach_Information_SIB5_List { 2 }, prach_Information_SIB6_List { 2 }, nonCriticalExtensions OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_SRB_InfoSetupAM_DCH (p_UL_IgchId : LogicalChannelIdentity; p_MAC_Igch_prtDCH , p_MAC_Igch_prtRACH : MAC_LogicalChannelPriority ; p_DL_IgchId : LogicalChannelIdentity) Group : ASN1 Type : SRB_InformationSetup Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { rb_Identity OMIT, rlc_InfoChoice rlc_Info : { ul_RLC_Mode ul_AM_RLC_Mode : cd_UL_AM_RLC_SRB, dl_RLC_Mode dl_AM_RLC_Mode : cd_DL_AM_RLC_SRB }, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType dch: tsc_UL_DCH5, logicalChannelIdentity p_UL_IgchId, rlc_SizeList configured :NULL, mac_LogicalChannelPriority p_MAC_Igch_prtDCH }, dl_LogicalChannelMappingList{{ dl_TransportChannelType dch: tsc_DL_DCH5, logicalChannelIdentity p_DL_IgchId }} }, { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType rach:NULL, logicalChannelIdentity p_UL_IgchId, rlc_SizeList explicitList : { { rlc_SizeIndex 1 } }, mac_LogicalChannelPriority p_MAC_Igch_prtRACH }, dl_LogicalChannelMappingList{{ dl_TransportChannelType fach: NULL, logicalChannelIdentity p_DL_IgchId }} } } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SRB_InfoSetupAM_FACH (p_RB_Id: RB_Identity; p_UL_IgchId: LogicalChannelIdentity; p_MAC_Igch_prtDCH , p_MAC_Igch_prt: MAC_LogicalChannelPriority; p_DL_IgchId: LogicalChannelIdentity)
Group	:
ASN1 Type	: SRB_InformationSetup
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { rb_Identity p_RB_Id, rlc_InfoChoice rlc_Info : { ul_RLC_Mode ul_AM_RLC_Mode: cd_UL_AM_RLC_SRB , dl_RLC_Mode dl_AM_RLC_Mode: cd_DL_AM_RLC_SRB }, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType rach: NULL, logicalChannelIdentity p_UL_IgchId, rlc_SizeList explicitList : { { rlc_SizeIndex 1} }, mac_LogicalChannelPriority p_MAC_Igch_prt }, dl_LogicalChannelMappingList{{ dl_TransportChannelType fach: NULL, logicalChannelIdentity p_DL_IgchId }} }, { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType dch: tsc_UL_DCH5, logicalChannelIdentity p_UL_IgchId, rlc_SizeList configured :NULL, mac_LogicalChannelPriority p_MAC_Igch_prtDCH }, dl_LogicalChannelMappingList{{ dl_TransportChannelType dch: tsc_DL_DCH5, logicalChannelIdentity p_DL_IgchId }} } } } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SRB_InfoSetupUM_DCH (p_UL_IgchId : LogicalChannelIdentity ; p_MAC_Igch_prtDCH, p_MAC_Igch_prtRACH : MAC_LogicalChannelPriority ; p_DL_IgchId : LogicalChannelIdentity)
Group	:
ASN1 Type	: SRB_InformationSetup
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { rb_Identity OMIT, rlc_InfoChoice rlc_Info : { ul_RLC_Mode ul_UM_RLC_Mode: { transmissionRLC_Discard OMIT }, dl_RLC_Mode dl_UM_RLC_Mode: NULL }, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType dch: tsc_UL_DCH5, logicalChannelIdentity p_UL_IgchId, rlc_SizeList configured :NULL, mac_LogicalChannelPriority p_MAC_Igch_prtDCH }, dl_LogicalChannelMappingList{{ dl_TransportChannelType dch: tsc_DL_DCH5, logicalChannelIdentity p_DL_IgchId }} }, { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType rach:NULL, logicalChannelIdentity p_UL_IgchId, rlc_SizeList explicitList : { { rlc_SizeIndex 1 } }, mac_LogicalChannelPriority p_MAC_Igch_prtRACH }, dl_LogicalChannelMappingList{{ dl_TransportChannelType fach: NULL, logicalChannelIdentity p_DL_IgchId }} } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SRB_InfoSetupUM_FACH (p_RB_Id: RB_Identity; p_UL_IgchId: LogicalChannelIdentity; p_MAC_Igch_prtDCH , p_MAC_Igch_prt: MAC_LogicalChannelPriority; p_DL_IgchId: LogicalChannelIdentity)
Group	:
ASN1 Type	: SRB_InformationSetup
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { rb_Identity p_RB_Id, rlc_InfoChoice rlc_Info : { ul_RLC_Mode ul_UM_RLC_Mode: { transmissionRLC_Discard timerBasedNoExplicit : dt50 }, dl_RLC_Mode dl_UM_RLC_Mode: NULL }, rb_MappingInfo { { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType rach:NULL, logicalChannelIdentity p_UL_IgchId, rlc_SizeList explicitList : { { rlc_SizeIndex 1 } }, mac_LogicalChannelPriority p_MAC_Igch_prt }, dl_LogicalChannelMappingList{{ dl_TransportChannelType fach: NULL, logicalChannelIdentity p_DL_IgchId }} }, { ul_LogicalChannelMappings oneLogicalChannel: { ul_TransportChannelType dch: tsc_UL_DCH5, logicalChannelIdentity p_UL_IgchId, rlc_SizeList configured :NULL, mac_LogicalChannelPriority p_MAC_Igch_prtDCH }, dl_LogicalChannelMappingList{{ dl_TransportChannelType dch: tsc_DL_DCH5, logicalChannelIdentity p_DL_IgchId }} } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_StartListCS
Group	:
ASN1 Type	: STARTList
Derivation Path	:
Encoding Variation	:
Comments	: Start list with CS_Domain only
Constraint Value	
<pre>{ { cn_DomainIdentity cs_domain, start_Value '00000000000000000000'B } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0 (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>normalTFCl_Signalling: complete: { ctfcSize ctfc2Bit:{ { ctfc2 0, powerOffsetInformation p_PowerOffsetInformation } } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> normalTFCl_Signalling: complete: { ctfcSize ctfc4Bit:{ { ctfc4 0, powerOffsetInformation OMIT }, { ctfc4 1, powerOffsetInformation OMIT }, { ctfc4 2, powerOffsetInformation OMIT }, { ctfc4 3, powerOffsetInformation OMIT }, { ctfc4 4, powerOffsetInformation OMIT }, { ctfc4 5, powerOffsetInformation OMIT }, { ctfc4 6, powerOffsetInformation OMIT }, { ctfc4 7, powerOffsetInformation OMIT }, { ctfc4 8, powerOffsetInformation OMIT }, { ctfc4 9, powerOffsetInformation OMIT } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> normalTFCL_Signalling: complete: { ctfcSize ctfc4Bit:{ { ctfc4 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 2, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 3, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 4, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 5, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 6, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 7, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 8, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 9, powerOffsetInformation p_PowerOffsetInformation } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_2_3_Rx
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information without power offset information – for receiver
Constraint Value	
<pre> normalTFCl_Signalling: complete: { ctfcSize ctfc4Bit:{ { ctfc4 0, powerOffsetInformation OMIT }, { ctfc4 1, powerOffsetInformation OMIT }, { ctfc4 2, powerOffsetInformation OMIT }, { ctfc4 3, powerOffsetInformation OMIT } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_2_3_Tx (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter
Constraint Value	
<pre> normalTFCl_Signalling: complete: { ctfcSize ctfc4Bit:{ { ctfc4 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 2, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 3, powerOffsetInformation p_PowerOffsetInformation } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_Rx
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information without power offset information – for receiver
Constraint Value	
<pre> normalTFCl_Signalling: complete: { ctfcSize ctfc2Bit:{ { ctfc2 0, powerOffsetInformation OMIT }, { ctfc2 1, powerOffsetInformation OMIT } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_1_Tx (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter
Constraint Value	
<pre> normalTFCl_Signalling: complete: { ctfcSize ctfc2Bit:{ { ctfc2 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc2 1, powerOffsetInformation p_PowerOffsetInformation } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_CmplFACH_Tx (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter
Constraint Value	
<pre> normalTFCl_Signalling: complete: { ctfcSize ctfc4Bit:{ { ctfc4 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 2, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 3, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 4, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 5, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 6, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc4 8, powerOffsetInformation p_PowerOffsetInformation } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChConfigTypeDCH_NoSHO
Group	:
ASN1 Type	: TrChConfigType
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
dch : normal	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoBCH1
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dlconnectedTrCHList { { trchid tsc_BCH1, transportChannelInfo { tti tti20 : {{tb_Size 246, numberOfTbSizeList {one : NULL}, logicalChannelList configured : NULL}}, semistaticTF_Information { channelCodingType convolutional :half, rateMatchingAttribute 1, crc_Size crc16 } } } }, dlTFCS c_TFCS_Cmpl0 (c_PowerOffsetInfoBelow64k) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoDL_13_6_StandAlone
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dlconnectedTrCHList { { trchid tsc_DL_DCH5, transportChannelInfo c_DCH_148_TTI_10_TFS } }, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoPCH_FACH
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	: For FDD mode only
Constraint Value	
<pre> { dlconnectedTrCHList { { trchid tsc_PCH1, transportChannelInfo c_PCH_TFS }, { trchid tsc_FACH1, transportChannelInfo c_FACH_TFS }, { trchid tsc_FACH2, transportChannelInfo c_FACH_TFS_PS } }, dlTFCS c_TFCS_CmplFACH_Tx (c_PowerOffsetInfoBelow64k) --- sent to SS } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoPCH_FACH_PS
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	: For FDD mode only (PS)
Constraint Value	
<pre> { dlconnectedTrCHList { { trchid tsc_PCH1, transportChannelInfo c_PCH_TFS }, { trchid tsc_FACH1, transportChannelInfo c_FACH_TFS }, { trchid tsc_FACH2, transportChannelInfo c_FACH_TFS_PS } }, dlTFCS c_TFCS_CmplFACH_Tx (c_PowerOffsetInfoBelow64k) --- sent to SS } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoUL_13_6_StandAlone
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ulconnectedTrCHList { { trchid tsc_UL_DCH5, transportChannelInfo c_DCH_148_TTI_10_TFS }, ulTFCS c_TFCS_Cmpl0_1_Rx -- sent to SS } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingBCH1
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_BCH1, trCH_LogCHMappingList {{ logicalChannel_Mapping dl_LogicalChannelMapping: { macHeaderManipulation normalMacHeader, dl_TransportChannelType bch, logicalChannelIdentity tsc_BCCH1, logicalChannelType bCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB_BCCH }} } } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingDL_4DCCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH1, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB1 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH2, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 2 }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH3, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 3 }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DCCH4, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 4 }, rB_Identity tsc_RB4 } } } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingPCH_FACH_CellDCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	: For FDD mode only. map PCCH to PCH and CCCH and BCCH(for BCCH_FACH) To be used for the Cell DCH configuration
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_PCH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType pch, logicalChannelIdentity tsc_PCCH1, logicalChannelType pCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB_PCCH } } }, { trchid tsc_FACH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_CCCH5, logicalChannelType cCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB0 } } } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingPCH_FACH_PS
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	: For FDD mode only (PS). map PCCH to PCH and DCCH1, DCCH2, DCCH3, DCCH4, CCCH, BCCH(for BCCH_FACH) to FACH2, and DTCH to FACH1
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { { trchid tsc_PCH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType pch, logicalChannelIdentity tsc_PCCH1, logicalChannelType pCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB_PCCH } } }, { trchid tsc_FACH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_BCCH6, logicalChannelType bCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 6 }, rB_Identity tsc_RB_BCCH_FACH }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_CCCH5, logicalChannelType cCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, rB_Identity tsc_RB0 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_DCCH1, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 1 }, </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> rB_Identity tsc_RB1 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_DCCH2, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 2 }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_DCCH3, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 3 }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_DCCH4, logicalChannelType dCCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 4 }, rB_Identity tsc_RB4 } }, trchid tsc_FACH2, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType fach, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, rB_Identity tsc_RB20 } } } } } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingRACH_DTCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_RACH1, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_CCCH5, logicalChannelType cCCH }, rB_Identity tsc_RB0 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_DCCH1, logicalChannelType dCCH }, rB_Identity tsc_RB1 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_DCCH2, logicalChannelType dCCH }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_DCCH3, logicalChannelType dCCH }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_DCCH4, logicalChannelType dCCH }, rB_Identity tsc_RB4 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_DTCH1, </pre>	

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ASN.1 Type Constraint Declaration	
	Constraint Value
<pre>logicalChannelType dTCH }, rB_Identity tsc_RB20 } }</pre>	
<pre>}, dlconnectedTrCHList OMIT }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingUL_4DCCH
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_UL_DCH5, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH1, logicalChannelType dCCH }, rB_Identity tsc_RB1 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH2, logicalChannelType dCCH }, rB_Identity tsc_RB2 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH3, logicalChannelType dCCH }, rB_Identity tsc_RB3 }, { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType dch, logicalChannelIdentity tsc_UL_DCCH4, logicalChannelType dCCH }, rB_Identity tsc_RB4 } } } }, dlconnectedTrCHList OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UE_IdDefIMSI
Group	:
ASN1 Type	: InitialUE_Identity
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
imsi : o_ConvertIMSI(px_IMSI_Def)	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UE_Info (p_U_RNTI : U_RNTI ; p_CRNTI : BITSTRING)
Group	:
ASN1 Type	: UE_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ u_RNTI p_U_RNTI, c_RNTI p_CRNTI }	
Detailed Comments	: p_SRNCId: BITSTRING (SIZE (12)) p_SRNTI: BITSTRING (SIZE (20)) p_CRNTI: BITSTRING (SIZE (16))

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListDCCH_13_6k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TTI_10_TFS_UE }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListDCCH_3_4k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> {{ ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL }} </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListDCH_PS_64k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> {{ ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH1, transportFormatSet dedicatedTransChTFS: c_DCH_336_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL }} </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoDCCH_13_6k
Group	:
ASN1 Type	: UL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoDCH_PS_64k
Group	:
ASN1 Type	: UL_CommonTransChInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_DPCH_13_6_StandAlone (p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
ASN1 Type	: UL_DPCH_Info
Derivation Path	:
Encoding Variation	:
Comments	: this DPCH is the same as stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH. Used for RLC AM and UM mode testing.
Constraint Value	
<pre> { ul_DPCH_PowerControlInfo fdd:{ dpcch_PowerOffset tsc_DPCCH_PowerOffset, pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1: tsc_TpcStepSize }, modeSpecificInfo fdd :{ scramblingCodeType longSC , scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor tsc_UL_DPDCH_SF_SRB, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit pl1 } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_DeletedTransChInfo (p_TransportChannelIdentity : TransportChannelIdentity)
Group	:
ASN1 Type	: UL_DeletedTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { ul_TransportChannelType dch, ul_TransportChannelIdentity p_TransportChannelIdentity } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_U_RNTI
Group	:
ASN1 Type	: U_RNTI
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ srnc_Identity '000000000001'B, s_RNTI '00000000000000000001'B }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_U_RNTI_Def
Group	:
ASN1 Type	: U_RNTI
Derivation Path	:
Encoding Variation	:
Comments	: Default U_RNTI identity
Constraint Value	
<pre>{ srnc_Identity px_SRNC_Id, s_RNTI px_SRNTI }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_AM_RLC
Group	:
ASN1 Type	: DL_AM_RLC_Mode
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, ---timerEPC OMIT missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : cb_DL_DPCH_64K_CS (p_DL_CommonInformation : DL_CommonInformation; p_SecondaryScramblingCode : SecondaryScramblingCode)	
Group :	
ASN1 Type : DL_DPCHInfo	
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList { {secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber tsc_DL_DPCH1_ChC_64k_CS } }, tpc_CombinationIndex 0 }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : cb_DL_DPCH_64K_PS (p_DL_CommonInformation : DL_CommonInformation; p_SecondaryScramblingCode : SecondaryScramblingCode)	
Group :	
ASN1 Type : DL_DPCHInfo	
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList { {secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber tsc_DL_DPCH1_ChC_64k_PS } }, tpc_CombinationIndex 0 }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH_64k, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_DPCH_SRB_StandAloneDPCH_Offset (p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_DPCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation cd_DL_CommonInformationDCH_DPCH_Offset (tsc_DL_DPCH1_SFP_SRB), dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList { { secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber tsc_DL_DPCH1_ChC_SRB } }, tpc_CombinationIndex 0 }, powerOffsetOfTFCL_PO1 tsc_DPCH_PowerOffsetTFCL, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB11_Def (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_IntraCellInfo4, p_IntraCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType11
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 11. To be used by cell A,B,C,G and H: – 5 intra cells frequency of the same frequency – 3 inter cell frequency of the same frequency.
Constraint Value	
<pre> { sib12indicator TRUE, measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removedIntraFreqCellList in SIB11 is not used and ignored by the UE newIntraFreqCellList {{ intraFreqCellID p_ActiveCellInfo.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellInfo.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT } }, }, { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo2.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { intraFreqCellID p_IntraCellInfo3.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo3.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { intraFreqCellID p_IntraCellInfo4.cellId, cellInfo { cellIndividualOffset OMIT, -- default value } } } } </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo4.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { intraFreqCellID p_IntraCellInfo5.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo5.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }, intraFreqMeasQuantity { filterCoefficient OMIT, -- default value modeSpecificInfo fdd : { intraFreqMeasQuantity_FDD cpich_RSCP } }, reportingInfoForCellDCH { intraFreqReportingQuantity { activeSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator FALSE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } }, monitoredSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator TRUE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } }, measurementReportingMode { measurementReportTransferMode acknowledgedModeRLC, periodicalOrEventTrigger eventTrigger }, reportCriteria intraFreqReportingCriteria : { eventCriteriaList {{ event e1a : { triggeringCondition monitoredSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 w 1, reportDeactivationThreshold t2, reportingAmount ra4, </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1b : { triggeringCondition activeSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 forbiddenAffectCellList OMIT, w 1}, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1c : { replacementActivationThreshold t3, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 } } } }, interFreqMeasurementSysInfo { interFreqCellInfoSI_List { removedInterFreqCellList OMIT, -- removedInterFreqCellList in SIB11 is not used and ignored by the UE newInterFreqCellList { { interFreqCellID p_InterCellInfo6.cellId, frequencyInfo p_InterCellInfo6.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo6.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo7.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo7.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }, } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> { interFreqCellID p_InterCellInfo8.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo8.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }}} -- nonCriticalExtensions OMIT } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB11_Freq2 (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType11
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 11. To be used by cell D,E,F: – 3 intra cells frequency of the same frequency – 5 inter cell frequency of the same frequency.
Constraint Value	
<pre> { sib12indicator TRUE, measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removeNoIntraFreqCells in SIB11 is not used and ignored by the UE newIntraFreqCellList {{ intraFreqCellID p_ActiveCellInfo.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellInfo.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT } }, }, }, { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo2.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { intraFreqCellID p_IntraCellInfo3.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo3.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }, intraFreqMeasQuantity { filterCoefficient OMIT, -- default value modeSpecificInfo fdd : { </pre>	

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ASN.1 Type Constraint Declaration	
	Constraint Value
	<pre> intraFreqMeasQuantity_FDD cpich_RSCP } }, reportingInfoForCellDCH { intraFreqReportingQuantity { activeSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator FALSE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } }, monitoredSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator TRUE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } }, measurementReportingMode { measurementReportTransferMode acknowledgedModeRLC, periodicalOrEventTrigger eventTrigger }, reportCriteria intraFreqReportingCriteria : { eventCriteriaList {{ event e1a : { triggeringCondition monitoredSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 w 1, reportDeactivationThreshold t2, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1b : { triggeringCondition activeSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 forbiddenAffectCellList OMIT, w 1}, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1c : { replacementActivationThreshold t3, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 } } } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }} } }, interFreqMeasurementSysInfo { interFreqCellInfoSI_List { removedInterFreqCellList OMIT, newInterFreqCellList { { interFreqCellID p_InterCellInfo4.cellId, frequencyInfo p_InterCellInfo4.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo4.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo5.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo5.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo6.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo6.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo7.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo7.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } } } } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo8.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo8.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } } }}} --nonCriticalExtensions OMIT } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB11_Freq3_PLMN1Or2 (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType11
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 11. To be used by cell D,E,F: – 3 intra cells frequency of the same frequency – 5 inter cell frequency of the same frequency.
Constraint Value	
<pre> { sib12indicator TRUE, measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removeNoIntraFreqCells in SIB11 is not used and ignored by the UE newIntraFreqCellList {{ intraFreqCellID p_ActiveCellInfo.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellInfo.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT } }}, { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo2.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { intraFreqCellID p_IntraCellInfo3.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo3.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }}, intraFreqMeasQuantity { filterCoefficient OMIT, -- default value } } } </pre>	

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ASN.1 Type Constraint Declaration	
	Constraint Value
	<pre> modeSpecificInfo fdd : { intraFreqMeasQuantity_FDD cpich_RSCP } }, reportingInfoForCellDCH { intraFreqReportingQuantity { activeSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator FALSE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } }, monitoredSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator TRUE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } }, measurementReportingMode { measurementReportTransferMode acknowledgedModeRLC, periodicalOrEventTrigger eventTrigger }, reportCriteria intraFreqReportingCriteria : { eventCriteriaList {{ event e1a : { triggeringCondition monitoredSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 w 1, reportDeactivationThreshold t2, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1b : { triggeringCondition activeSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 forbiddenAffectCellList OMIT, w 1}, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1c : { replacementActivationThreshold t3, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 } } } } } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> } }} } }, interFreqMeasurementSysInfo { interFreqCellInfoSI_List { removedInterFreqCellList OMIT, newInterFreqCellList { { interFreqCellID p_InterCellInfo4.cellId, frequencyInfo p_InterCellInfo4.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo4.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo5.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo5.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo6.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo6.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo7.cellId, frequencyInfo p_InterCellInfo7.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo7.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE } } } } } } </pre>

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre> }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo8.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo8.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }} }}} -- nonCriticalExtensions OMIT }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB11_Freq3_PLMN3 (p_ActiveCellInfo, p_IntraCellInfo2, p_InterCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType11
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 11. To be used by cell D,E,F: – 3 intra cells frequency of the same frequency – 5 inter cell frequency of the same frequency.
Constraint Value	
<pre> { sib12indicator TRUE, measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removeNoIntraFreqCells in SIB11 is not used and ignored by the UE newIntraFreqCellList { intraFreqCellID p_ActiveCellInfo.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellInfo.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT } }, }, { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_IntraCellInfo2.priScrmCode }, readSFN_Indicator TRUE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }, intraFreqMeasQuantity { filterCoefficient OMIT, -- default value modeSpecificInfo fdd : { intraFreqMeasQuantity_FDD cpich_RSCP } }, reportingInfoForCellIDCH { intraFreqReportingQuantity { activeSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator FALSE, modeSpecificInfo fdd : { cpich_Ec_NO_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } } } } } </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }, monitoredSetReportingQuantities { dummy noReport, cellIdentity_reportingIndicator TRUE, cellSynchronisationInfoReportingIndicator TRUE, modeSpecificInfo fdd : { cpich_Ec_N0_reportingIndicator FALSE, cpich_RSCP_reportingIndicator TRUE, pathloss_reportingIndicator FALSE } } }, measurementReportingMode { measurementReportTransferMode acknowledgedModeRLC, periodicalOrEventTrigger eventTrigger }, reportCriteria intraFreqReportingCriteria : { eventCriteriaList {{ event e1a : { triggeringCondition monitoredSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 w 1, reportDeactivationThreshold t2, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1b : { triggeringCondition activeSetCellsOnly, reportingRange 10, -- Actual value ReportingRange = IE value * 0.5 forbiddenAffectCellList OMIT, w 1}, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 }, { event e1c : { replacementActivationThreshold t3, reportingAmount ra4, reportingInterval ri4 }, hysteresis 0, timeToTrigger ttt640, reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3 } }} } }, interFreqMeasurementSysInfo { interFreqCellInfoSI_List { removedInterFreqCellList OMIT, newInterFreqCellList { { interFreqCellID p_InterCellInfo3.cellId, frequencyInfo p_InterCellInfo3.frequencyInfo, cellInfo { </pre>

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ASN.1 Type Constraint Declaration	
	Constraint Value
	<pre> cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo3.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo4.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo4.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo5.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo5.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo6.cellId, frequencyInfo p_InterCellInfo6.frequencyInfo, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo6.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo7.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo7.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE } } } </pre>

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } }, { interFreqCellID p_InterCellInfo8.cellId, frequencyInfo OMIT, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_InterCellInfo8.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT -- value same as the serving cell } } }}} -- nonCriticalExtensions OMIT } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration
Constraint Name : cb_SIB12_Def Group : ASN1 Type : SysInfoType12 Derivation Path : Encoding Variation : Comments : Default system information block type 12, used in connected mode. To be used by cell A,B,C,G and H: – 5 intra cells frequency of the same frequency – 3 inter cell frequency of the same frequency.
Constraint Value
<pre> { measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo OMIT, interFreqMeasurementSysInfo OMIT }, interRATMeasurementSysInfo OMIT } } } -- nonCriticalExtensions OMIT } </pre>
Detailed Comments : Similar to c_SIB11_def except that "detectedSetReportingQuantities" is not present and "timeToTrigger" = 0

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB12_Freq2
Group	:
ASN1 Type	: SysInfoType12
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 12, used in connected mode. To be used by cell D,E,F: – 3 intra cells frequency of the same frequency – 5 inter cell frequency of the same frequency.
Constraint Value	
<pre> { measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo OMIT, interFreqMeasurementSysInfo OMIT }, interRATMeasurementSysInfo OMIT } } --nonCriticalExtensions OMIT } </pre>	
Detailed Comments	: Similar to c_SIB11_def except that "detectedSetReportingQuantities" is not present and "timeToTrigger" = 0

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB1_Def (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { cn_CommonGSM_MAP_NAS_SysInfo p_CellInfo.lac, cn_DomainSysInfoList {{cn_DomainIdentity ps_domain, cn_Type gsm_MAP: o_OctetstringConcat (p_CellInfo.rac, p_CellInfo.nmo), cn_DRX_CycleLengthCoeff p_CellInfo.dRX_CycleLength.cN_PS_DRX_CycleLength }, {cn_DomainIdentity cs_domain, cn_Type gsm_MAP: o_OctetstringConcat (p_CellInfo.t3212, o_IntToOct (p_CellInfo.attFlag,1)), cn_DRX_CycleLengthCoeff p_CellInfo.dRX_CycleLength.cN_CS_DRX_CycleLength } }, ue_ConnTimersAndConstants { t_301 OMIT, n_301 OMIT, t_302 OMIT, n_302 OMIT, t_304 OMIT, n_304 OMIT, t_305 OMIT, t_307 OMIT, t_308 OMIT, t_309 OMIT, t_310 OMIT, n_310 OMIT, t_311 OMIT, t_312 OMIT, n_312 OMIT, t_313 OMIT, n_313 OMIT, t_314 OMIT, t_315 OMIT, n_315 OMIT, t_316 OMIT, t_317 OMIT }, ue_IdleTimersAndConstants { t_300 ms4000, n_300 tsc_N300, t_312 10, n_312 s1 }, v3a0NonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB3_DefUTRAN (p_CellInfoCfg : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType3
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 3 for UTRAN only
Constraint Value	
<pre> { sib4indicator TRUE, cellIdentity INT_TO_BIT (p_CellInfoCfg.cellId , 28) , cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP: NULL, modeSpecificInfo fdd : { s_Intrasearch 8, -- IE value * 2 s_Intersearch 8, -- IE value * 2 s_SearchHCS OMIT, rat_List OMIT, q_QualMin -24, q_RxlevMin -40 -- (IE value * 2) + 1 }, q_Hyst_I_S 1, -- (IE value*2) t_Reselection_S 0, hcs_ServingCellInformation OMIT, maxAllowedUL_TX_Power 21 }, cellAccessRestriction { cellBarred notBarred : NULL, cellReservedForOperatorUse notReserved, cellReservationExtension notReserved, accessClassBarredList { notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred, notBarred } } -- nonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration

Constraint Name : cb_SIB3_DefUTRAN_GERAN (p_CellInfoCfg : CellInfoCfg)

Group :

ASN1 Type : SysInfoType3

Derivation Path :

Encoding Variation :

Comments : Default system information block type 3 for UTRAN/GERAN

Constraint Value

[illegible]**Detailed Comments :**

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB4_DefUTRAN (p_CellInfoCfg : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType4
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 4 for UTRAN only, used in connected mode.
Constraint Value	
<pre> { cellIdentity INT_TO_BIT (p_CellInfoCfg.cellId ,28) , cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP : NULL, modeSpecificInfo fdd : { s_Intrasearch 8, -- IE value * 2 s_Intersearch 8, -- IE value * 2 s_SearchHCS OMIT, rat_List OMIT, q_QualMin -24, q_RxlevMin -40 -- (IE value * 2) + 1 }, q_Hyst_I_S 1, -- (IE value*2) t_Reselection_S 0, hcs_ServingCellInformation OMIT, maxAllowedUL_TX_Power 21 }, cellAccessRestriction { cellBarred notBarred : NULL, cellReservedForOperatorUse notReserved, cellReservationExtension notReserved, accessClassBarredList OMIT } -- nonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB4_DefUTRAN_GERAN (p_CellInfoCfg : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType4
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 4 for UTRAN/GERAN, used in connected mode.
Constraint Value	
<pre> { cellIdentity INT_TO_BIT (p_CellInfoCfg.cellId ,28) , cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP : NULL, modeSpecificInfo fdd : { s_Intrasearch 8, -- IE value * 2 s_Intersearch 8, -- IE value * 2 s_SearchHCS OMIT, rat_List {{ rat_Identifier gsm, s_SearchRAT -16, s_HCS_RAT OMIT, s_Limit_SearchRAT 0 }}, q_QualMin -24, q_RxlevMin -40 -- (IE value * 2) + 1 }, q_Hyst_I_S 1, -- (IE value*2) t_Reselection_S 0, hcs_ServingCellInformation OMIT, maxAllowedUL_TX_Power 21 }, cellAccessRestriction { cellBarred notBarred : NULL, cellReservedForOperatorUse notReserved, cellReservationExtension notReserved, accessClassBarredList OMIT } -- nonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB5_Def (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType5
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 5
Constraint Value	
<pre> { sib6indicator TRUE, pich_PowerOffset p_CellInfo.powerPICH, modeSpecificInfo fdd : { aich_PowerOffset p_CellInfo.powerAICH }, primaryCCPCH_Info OMIT, prach_SystemInformationList {{ prach_RACH_Info { modeSpecificInfo fdd : { availableSignatures tsc_PRACH1_Signatures, availableSF tsc_PRACH1_SF, preambleScramblingCodeWordNumber tsc_PRACH1_ScrC, puncturingLimit pl1, availableSubChannelNumbers '111111111111'B } }, transportChannelIdentity tsc_RACH1, rach_TransportFormatSet commonTransChTFS : c_RACH_TFS_UE, rach_TFCS normalTFCl_Signalling : complete : { ctfcSize ctfc2Bit : {{ ctfc2 0, powerOffsetInformation { gainFactorInformation computedGainFactors : 0, powerOffsetPp_m 0 } }, { ctfc2 1, powerOffsetInformation { gainFactorInformation signalledGainFactors : { modeSpecificInfo fdd : { gainFactorBetaC 11 }, gainFactorBetaD 15, referenceTFC_ID 0 }, powerOffsetPp_m 0 } } }, prach_Partitioning fdd : {{ accessServiceClass_FDD OMIT }, { accessServiceClass_FDD { availableSignatureStartIndex 0, availableSignatureEndIndex 7, assignedSubChannelNumber '1111'B } }, { accessServiceClass_FDD OMIT }, { accessServiceClass_FDD { availableSignatureStartIndex 0, availableSignatureEndIndex 7, </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> assignedSubChannelNumber '1111'B } }, { accessServiceClass_FDD OMIT }, { accessServiceClass_FDD { availableSignatureStartIndex 0, availableSignatureEndIndex 7, assignedSubChannelNumber '1111'B } }, { accessServiceClass_FDD OMIT }, { accessServiceClass_FDD { availableSignatureStartIndex 0, availableSignatureEndIndex 7, assignedSubChannelNumber '1111'B } }}, persistenceScalingFactorList { psf0_9, psf0_9, psf0_9, psf0_9, psf0_9, psf0_9 }, ac_To_ASC_MappingTable { 6, 5, 4, 3, 2, 1, 0 }, modeSpecificInfo fdd : { primaryCPICH_TX_Power 31, constantValue -10, prach_PowerOffset { powerRampStep 3, -- db preambleRetransMax 4 }, rach_TransmissionParameters { mmax 2, nb01Min 3, nb01Max 10 }, aich_Info { channelisationCode256 tsc_AICH1_ChC, sttd_Indicator FALSE, aich_TransmissionTiming e0 } } }}, sCCPCH_SystemInformationList {{ secondaryCCPCH_Info { modeSpecificInfo fdd : { dummy1 mayBeUsed, -- mandatory ie secondaryScramblingCode OMIT, sttd_Indicator FALSE, sf_AndCodeNumber tsc_S_CCPCH1_ChC, pilotSymbolExistence FALSE, tfci_Existence TRUE, positionFixedOrFlexible flexible, timingOffset 0 } }, tfcs normalTFCl_Signalling : complete: {ctfcSize ctfc4Bit : { {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4 }, {ctfc4 5 }, {ctfc4 6 }, {ctfc4 8}}}, fach_PCH_InformationList { { transportFormatSet commonTransChTFS : c_PCH_TFS_UE, transportChannelIdentity tsc_PCH1, -- PCH </pre>

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ASN.1 Type Constraint Declaration	
Constraint Value	
<pre> ctch_Indicator FALSE }, { transportFormatSet commonTransChTFS : c_FACH_TFS_UE, transportChannelIdentity tsc_FACH1, -- FACH ctch_Indicator FALSE }, { transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE, transportChannelIdentity tsc_FACH2, -- FACH ctch_Indicator FALSE } }, pich_Info fdd :{ channelisationCode256 tsc_PICH1_ChC, pi_CountPerFrame e18, sttd_Indicator FALSE } }}, cbs_DRX_Level1Information OMIT -- nonCriticalExtensions OMIT } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_SIB6_Def (p_CellInfo : CellInfoCfg)
Group	:
ASN1 Type	: SysInfoType6
Derivation Path	:
Encoding Variation	:
Comments	: Default system information block type 6, used in connected mode.
Constraint Value	
<pre> { pich_PowerOffset p_CellInfo.powerPICH, modeSpecificInfo fdd : { aich_PowerOffset p_CellInfo.powerAICH }, primaryCCPCH_Info OMIT, prach_SystemInformationList OMIT, sCCPCH_SystemInformationList OMIT, cbs_DRX_Level1Information OMIT } </pre>	
Detailed Comments : Similar to cb_SIB5_Def, except "AC-to-ASC mapping table" not present	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_TrChInfoRACH1
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_RACH1, transportChannelInfo c_RACH_TFS } }, ulTFCS c_TFCS_Cmpl0_1_Rx, -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_TrLogMappingRACH2
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList { { trchid tsc_RACH1, trCH_LogCHMappingList { { logicalChannel_Mapping ul_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, ul_TransportChannelType rach, logicalChannelIdentity tsc_UL_CCCH5, logicalChannelType cCCH }, rB_Identity tsc_RB0 } } } }, dlconnectedTrCHList OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_UL_AM_RLC
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize tw128, timerRST tr500, max_RST rst4, pollingInfo { timerPollProhibit tpp200, timerPoll tp200, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_UL_DPCH_Info (p_SprdFct: SpreadingFactor; p_PuncLimit: PuncturingLimit; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
ASN1 Type	: UL_DPCH_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_DPCH_PowerControlInfo fdd:{ dpcch_PowerOffset tsc_DPCCH_PowerOffset, pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1: tsc_TpcStepSize }, modeSpecificInfo fdd :{ scramblingCodeType longSC , scramblingCode p_UL_ScramblingCode , numberOfDPDCH OMIT, spreadingFactor p_SprdFct, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit p_PuncLimit } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_AM_RLC_SRB
Group	:
ASN1 Type	: DL_AM_RLC_Mode
Derivation Path	: cb_DL_AM_RLC.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE receivingWindowSize BY rw32	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_CommonInformationDCH_DPCH_Offset (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation
Derivation Path	: c_DL_CommonInformationDCH_DPCH_Offset.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.positionFixedOrFlexible BY fixed, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.tfcExistence BY FALSE	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_AM_RLC_SRB
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	: cb_UL_AM_RLC.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE transmissionWindowSize BY tw32, REPLACE max_RST BY rst1	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_CipheringModeCmdOn (p_CipheringAlgorithm : CipheringAlgorithm)
Group	:
ASN1 Type	: CipheringModeCommand
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
startRestart : p_CipheringAlgorithm	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_IntegrityCheckInfo0
Group	:
ASN1 Type	: IntegrityCheckInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ messageAuthenticationCode tsc_MessAuthCode, rrc_MessageSequenceNumber tsc_MSN }	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_IntegrityProtectModify_P(p1,p2,p3,p4,p5 : RRC_MessageSequenceNumber)
Group	:
ASN1 Type	: IntegrityProtectionModelInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ integrityProtectionModeCommand modify : { dl_IntegrityProtActivationInfo { rrc_MessageSequenceNumberList {p1,p2,p3,p4,p5 } -- fixed reasonable value } }, integrityProtectionAlgorithm uia1 }	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_IntegrityProtectStart (p_Integrityprotnumber: BITSTRING)
Group	:
ASN1 Type	: IntegrityProtectionModelInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityProtectionModeCommand startIntegrityProtection :{ integrityProtInitNumber p_Integrityprotnumber }, integrityProtectionAlgorithm uia1 }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_Null_CipheringModeCommand
Group	:
ASN1 Type	: CipheringModeCommand
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
dummy : NULL	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoList20 (p_RLC_SN20 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo(tsc_RB20, p_RLC_SN20) }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoList20_21(p_RLC_SN20, p_RLC_SN21 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo(tsc_RB20, p_RLC_SN20), c_RB_ActTimeInfo(tsc_RB21, p_RLC_SN21) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoList20_22(p_RLC_SN20, p_RLC_SN22 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo(tsc_RB20, p_RLC_SN20), c_RB_ActTimeInfo(tsc_RB22, p_RLC_SN22) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoList20_24(p_RLC_SN20, p_RLC_SN24 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo(tsc_RB20, p_RLC_SN20), c_RB_ActTimeInfo(tsc_RB24, p_RLC_SN24) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoList21(p_RLC_SN21 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo(tsc_RB21, p_RLC_SN21) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoListSRBs (p_RLC_SN1, p_RLC_SN2, p_RLC_SN3, p_RLC_SN4 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo (tsc_RB1, p_RLC_SN1) , c_RB_ActTimeInfo (tsc_RB2, p_RLC_SN2) , c_RB_ActTimeInfo (tsc_RB3, p_RLC_SN3) , c_RB_ActTimeInfo (tsc_RB4, p_RLC_SN4) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoListSRBs_20 (p_RLC_SN1, p_RLC_SN2, p_RLC_SN3, p_RLC_SN4, p_RLC_SN20 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo (tsc_RB1, p_RLC_SN1) , c_RB_ActTimeInfo (tsc_RB2, p_RLC_SN2) , c_RB_ActTimeInfo (tsc_RB3, p_RLC_SN3) , c_RB_ActTimeInfo (tsc_RB4, p_RLC_SN4) , c_RB_ActTimeInfo (tsc_RB20, p_RLC_SN20) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoListSRBs_20_21 (p_RLC_SN1, p_RLC_SN2, p_RLC_SN3, p_RLC_SN4, p_RLC_SN20, p_RLC_SN21 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo (tsc_RB1, p_RLC_SN1) , c_RB_ActTimeInfo (tsc_RB2, p_RLC_SN2) , c_RB_ActTimeInfo (tsc_RB3, p_RLC_SN3) , c_RB_ActTimeInfo (tsc_RB4, p_RLC_SN4) , c_RB_ActTimeInfo (tsc_RB20, p_RLC_SN20) , c_RB_ActTimeInfo (tsc_RB21, p_RLC_SN21) }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoListSRBs_20_22 (p_RLC_SN1, p_RLC_SN2, p_RLC_SN3, p_RLC_SN4, p_RLC_SN20, p_RLC_SN22 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_RB_ActTimeInfo (tsc_RB1, p_RLC_SN1) , c_RB_ActTimeInfo (tsc_RB2, p_RLC_SN2) , c_RB_ActTimeInfo (tsc_RB3, p_RLC_SN3) , c_RB_ActTimeInfo (tsc_RB4, p_RLC_SN4) , c_RB_ActTimeInfo (tsc_RB20, p_RLC_SN20) , c_RB_ActTimeInfo (tsc_RB22, p_RLC_SN22) }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoListSRBs_21 (p_RLC_SN1, p_RLC_SN2, p_RLC_SN3, p_RLC_SN4, p_RLC_SN21 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { c_RB_ActTimeInfo (tsc_RB1, p_RLC_SN1) , c_RB_ActTimeInfo (tsc_RB2, p_RLC_SN2) , c_RB_ActTimeInfo (tsc_RB3, p_RLC_SN3) , c_RB_ActTimeInfo (tsc_RB4, p_RLC_SN4) , c_RB_ActTimeInfo (tsc_RB21, p_RLC_SN21) } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : cs_RRC_SecModeCmdCiphInt (<p> p_RRC_Ti : RRC_TransactionIdentifier; p_CipheringModeCommand : CipheringModeCommand; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList ; p_ActTimeDPCH : INTEGER; p_cn_domain : CN_DomainIdentity; p_integrityMode : IntegrityProtectionModelInfo; p_SecurityCapability:BITSTRING; p_SystemSpecCap: InterRAT_UE_SecurityCapList) </p> Group : ASN1 Type : SecurityModeCommand Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> r3 : { securityModeCommand_r3 { rrc_TransactionIdentifier p_RRC_Ti, securityCapability { cipheringAlgorithmCap p_SecurityCapability, integrityProtectionAlgorithmCap tsc_IntegrProtAlgCap }, cipheringModelInfo { cipheringModeCommand p_CipheringModeCommand, activationTimeForDPCH p_ActTimeDPCH, rb_DL_CiphActivationTimeInfo p_RB_ActivationTimeInfoList }, integrityProtectionModelInfo p_integrityMode, cn_DomainIdentity p_cn_domain, ue_SystemSpecificSecurityCap p_SystemSpecCap }, laterNonCriticalExtensions OMIT } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RRC_SecModeCmdInt (p_RRC_Ti: RRC_TransactionIdentifier; p_cn_domain: CN_DomainIdentity; p_integrityMode : IntegrityProtectionModelInfo; p_SecurityCapability:BITSTRING; p_SystemSpecCap: InterRAT_UE_SecurityCapList)
Group	:
ASN1 Type	: SecurityModeCommand
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> r3 : { securityModeCommand_r3 { rrc_TransactionIdentifier p_RRC_Ti, securityCapability { cipheringAlgorithmCap p_SecurityCapability, integrityProtectionAlgorithmCap tsc_IntegrProtAlgCap }, cipheringModelInfo OMIT, integrityProtectionModelInfo p_integrityMode, cn_DomainIdentity p_cn_domain, ue_SystemSpecificSecurityCap p_SystemSpecCap }, laterNonCriticalExtensions OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_UE_SysSpecCap(p_SysSpecCap : BITSTRING)
Group	:
ASN1 Type	: InterRAT_UE_SecurityCapList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { gsm : { gsmSecurityCapability p_SysSpecCap }} </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_CommonInformationDCH_DPCH_Offset_HS (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	: c_DL_CommonInformationDCH_DPCH_Offset_HS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.positionFixedOrFlexible BY fixed, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.tpci_Existence BY FALSE	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationDCH_DPCH_Offset_HS (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon { cfnHandling initialise : { cfnTargetsInframeoffset OMIT }, modeSpecificInfo fdd : { dl_DPCH_PowerControlInfo { modeSpecificInfo fdd : { dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible flexible, tpci_Existence TRUE } }, modeSpecificInfo fdd : { defaultDPCH_OffsetValue tsc_DefaultDPCH_OffsetValue, dpch_CompressedModelInfo OMIT, tx_DiversityMode noDiversity, ssdt_Information OMIT }, mac_hsResetIndicator true_value } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_AddOrReconfMAC_dFlow (p_MAC_hs_AddReconfQueue : MAC_hs_AddReconfQueue)
Group	:
ASN1 Type	: AddOrReconfMAC_dFlow
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ mac_hs_AddReconfQueue_List {p_MAC_hs_AddReconfQueue}, mac_hs_DelQueue_List OMIT }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_148_DL_InfoActNow
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ activationTime activateNow : NULL, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL} }, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoHigher64k) -- sent to SS }</pre>	
Detailed Comments : For DCH1 (34.108 cl. 6.10.2.4.26): TTI = 20 ms; 5 transport formats: TransportBlocks = 0,1,2,3 and 4; all TB sizes = 336 bits; coding = turbo; CRCsize = 16; RateMatching = 130 For DCH5 (34.108 cl. 6.10.2.4.26): TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 155.	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_148_UL_Info384k (p_ActTime : ActivationTime)
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activationCFN : p_ActTime, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_336_TFS_34_UL_10_TC }, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL } }, ulTFCS c_TFCS_Cmpl0_To11_Rx, -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_148_UL_Info384k_ActNow
Group	:
ASN1 Type	: CphyTrchConfigReq
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { activationTime activateNow : NULL, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_336_TFS_34_UL_10_TC }, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL } }, ulTFCS c_TFCS_Cmpl0_To11_Rx, -- sent to SS dlconnectedTrCHList OMIT, dlTFCS OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_TFS_0_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in CreateCell_DCH_64kPS_RAB_SRB for message sent to UE with 0 TransportBlocks
Constraint Value	
<pre> { tti tti20 :{ { rlc_Size octetModeType1 : sizeType2 : {part1 2, part2 OMIT}, numberOfTbSizeList { zero : NULL }, logicalChannelList allSizes : NULL }}, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 150, crc_Size crc16 } } </pre>	
Detailed Comments	: 3GPP TS 34.108 clause 6.10.2.4.1.24 TTI = 20 ms; 5 transport formats: TB size always=336 bits; TransportBlocks = 0 rlsc_Size = TB_Size (DCH, w/o MUX) coding = turbo; CRCsize = 16; RateMatching = 150

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_TFS_34_UL_10_TC
Group	:
ASN1 Type	: CommonOrDedicatedTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in Interactive or Background /UL:.384kbps This corresponds to 6.10.2.4.1.34.1.1.1 of 34.108
Constraint Value	
<pre> { tti tti10 : { { tb_Size 336, numberOfTbSizeList { zero : NULL, one : NULL, small : 2, small : 4, small : 8, small : 12 }, logicalChannelList allSizes : NULL } }, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 145, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; six transport formats: TransportBlocks = 0, TB size = 336 bits; TansportBlock = 1, Size =336 bits; TransportBlocks = 2, TB size = 336 bits., TransportBlocks = 4, TB size = 336 bits, TransportBlocks = 8, TB size = 336 bits, TransportBlocks = 16, TB size = 336 bits coding = turbo; CRCsize = 16; RateMatching = parameter(110–180)	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DCH_336_TFS_34_UL_10_TC_UE
Group	:
ASN1 Type	: DedicatedTransChTFS
Derivation Path	:
Encoding Variation	:
Comments	: transport format set for transport channel used in Interactive or Background /UL:.384kbps This corresponds to 6.10.2.4.1.34.1.1.1 of 34.108
Constraint Value	
<pre> { tti tti10 : { { rlc_Size octetModeType1 : sizeType2 : {part1 2, part2 OMIT}, numberOfTbSizeList { zero : NULL, one : NULL, small : 2, small : 4, small : 8, small : 12 }, logicalChannelList allSizes : NULL } }, semistaticTF_Information { channelCodingType turbo: NULL, rateMatchingAttribute 145, crc_Size crc16 } } </pre>	
Detailed Comments : TTI = 10 ms; six transport formats: TransportBlocks = 0, TB size = 336 bits; TansportBlock = 1, Size =336 bits; TransportBlocks = 2, TB size = 336 bits., TransportBlocks = 4, TB size = 336 bits, TransportBlocks = 8, TB size = 336 bits, TransportBlocks = 16, TB size = 336 bits coding = turbo; CRCsize = 16; RateMatching = parameter(110–180)	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AM_RLC_HSENH
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_RLC_PDU_size sizeType2 : {part1 2, part2 OMIT}, -- 336 (320 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize rw768, dl_RLC_StatusInfo { timerStatusProhibit tsp100, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AM_RLC_rw_HSENH (p_rw:ReceivingWindowSize)
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_RLC_PDU_size sizeType2 : {part1 2, part2 OMIT}, -- 336 (320 Payload + 16 bit header) inSequenceDelivery TRUE, receivingWindowSize p_rw, dl_RLC_StatusInfo { timerStatusProhibit tsp100, dummy OMIT, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChHSDSCHInfo_HSENH (p_HSDSCH_Info : HSDSCH_Info)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType hdsch : NULL, tfs_SignallingMode hdsch : p_HSDSCH_Info, dch_QualityTarget OMIT }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoDCH_PS_HSENH (p_TrchID : TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch : p_TrchID, tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_336_TFS_UE, dch_QualityTarget { bler_QualityValue -20 -- Actual Value = IE Value * 0.1 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoDCH_PS_TFCS_01_HSENH (p_TrchID : TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch : p_TrchID, tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_336_TFS_0_UE, dch_QualityTarget { bler_QualityValue -20 -- Actual Value = IE Value * 0.1 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListDCH_PS_HSENH
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfoDCH_PS_HSENH (tsc_DL_DCH1) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoList_2DCH_HS_PS_HSENH (p_NumOfProcess : INTEGER)
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChInfoDCH_PS_TFCS_01_HSENH (tsc_DL_DCH1), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_NumOfProcess), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoSameUL_HSENH (p_DITrChId:TransportChannelIdentity; p_UITrChId:TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch : p_DITrChId, tfs_SignallingMode sameAsULTrCH : { ul_TransportChannelType dch, ul_TransportChannelIdentity p_UITrChId }, dch_QualityTarget { bler_QualityValue -20 --- Actual Value = IE Value * 0.1 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_Cell_DCH_HS_DSCH_PS_RAB (p_HSDSCH_physical_layer_category : HSDSCH_physical_layer_category; p_H_RNTI : H_RNTI; p_DL_HSPDSCH_Information : DL_HSPDSCH_Information; p_sttd_Indicator : BOOLEAN; p_DL_TxPower : DL_TxPower)
Group	:
ASN1 Type	: HS_PDSCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ hSDSCHPhysicalLayerCategory p_HSDSCH_physical_layer_category, h_RNTI p_H_RNTI, dlHSPDSCHInformation p_DL_HSPDSCH_Information, sttd_Indicator p_sttd_Indicator, hs_SCCH_TxPower p_DL_TxPower }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationRB_SetUpReset_HSENH (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon { cfnHandling maintain : NULL, modeSpecificInfo fdd : { dl_DPCH_PowerControlInfo { modeSpecificInfo fdd : { dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible fixed, tfci_Existence FALSE } }, modeSpecificInfo fdd:{ defaultDPCH_OffsetValue OMIT, dpch_CompressedModelInfo OMIT , tx_DiversityMode noDiversity, ssdt_Information OMIT }, mac_hsResetIndicator true_value } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DPCH_SRB_HS (p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf: SF512_AndCodeNumber)
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex 0, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_DL_DPCH_SRB_HS_NewDPCH_FrameOffset (<p> p_Tm : Tcell; p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf : SF512_AndCodeNumber; p_TPC_CombinationIndex : TPC_CombinationIndex) </p> Group : ASN1 Type : DL_DPCHInfo_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { dl_CommonInformation c_DL_CommonInformationRB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((p_Tm+128) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber p_Sf, scramblingCodeChange OMIT }}, tpc_CombinationIndex p_TPC_CombinationIndex, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DPCH_SRB_HS_TimInit (p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf: SF512_AndCodeNumber)
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation cd_DL_CommonInformationDCH_DPCH_Offset_HS (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex 0, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_DeletedTransChInfoDCH_HS (p_TransportChannelIdentity : TransportChannelIdentity; p_MAC_d_FlowIdentity : MAC_d_FlowIdentity)
Group	:
ASN1 Type	: DL_DeletedTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ { dl_TransportChannelType dch : p_TransportChannelIdentity }, { dl_TransportChannelType hdsch : p_MAC_d_FlowIdentity } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_HSPDSCH_Information (p_HS_SCCH_Info : HS_SCCH_Info; p_Measurement_Feedback_Info : Measurement_Feedback_Info)
Group	:
ASN1 Type	: DL_HSPDSCH_Information
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ hs_scch_Info p_HS_SCCH_Info, measurement_feedback_Info p_Measurement_Feedback_Info, modeSpecificInfo fdd : NULL }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InfoPerRL_HSENH (p_ScrmbCode: PrimaryScramblingCode; p_Sf: SF512_AndCodeNumber; p_SecScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_InformationPerRL_List_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode}, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator TRUE }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecScramblingCode , sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex 0, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT, cell_id OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InfoPerRL_SecScrm_HS (p_ScrambCode: PrimaryScramblingCode; p_Sf: SF512_AndCodeNumber; p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_InformationPerRL_List_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { { modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrambCode}, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator TRUE }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex 0, powerOffsetTPC_pdpdch OMIT, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT, cell_id OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_HARQ_Info (p_NumOfProcess : INTEGER)
Group	:
ASN1 Type	: HARQ_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { numberOfProcesses p_NumOfProcess , memoryPartitioning implicit : NULL } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_HSDSCH_Info (p_HARQ_Info : HARQ_Info; p_AddOrReconfMAC_dFlow : AddOrReconfMAC_dFlow)
Group	:
ASN1 Type	: HSDSCH_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ harqInfo p_HARQ_Info, addOrReconfMAC_dFlow p_AddOrReconfMAC_dFlow }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_HS_DSCHMACdFlows (p_HARQ_Info : HARQ_Info; p_SS_AddOrReconfMAC_dFlow : SS_AddOrReconfMAC_dFlow; p_ackNackRepetitionFactor : ACK_NACK_repetitionFactor)
Group	:
ASN1 Type	: HS_DSCHMACdFlows
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ harqInfo p_HARQ_Info, addOrReconfMACdFlow p_SS_AddOrReconfMAC_dFlow, ackNackRepetitionFactor p_ackNackRepetitionFactor }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_HS_SCCH_Info
Group	:
ASN1 Type	: HS_SCCH_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ modeSpecificInfo fdd : { hS_SCCHChannelisationCodeInfo {1}, dl_ScramblingCode OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_HS_SCCH_Info_CH_Code1
Group	:
ASN1 Type	: HS_SCCH_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ modeSpecificInfo fdd : { hS_SCCHChannelisationCodeInfo {2}, dl_ScramblingCode OMIT } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_Measurement_Feedback_Info (p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
ASN1 Type	: Measurement_Feedback_Info
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ modeSpecificInfo fdd : { measurementPowerOffset 12, -- Actual measurement power offset value = IE value * 0.5 feedback_cycle fc4, --feedback cycle cqi_RepetitionFactor p_HSDPA_ConfigType.cqi_RepetitionFactor , --cqi repetition factor deltaCQI 5 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_RAB_InfoSetupDCH_PS_HS (p_Reesttimer : Re_EstablishmentTimer; p_RAB_Id : BITSTRING; p_RLC_Info : RLC_Info_r5) Group : ASN1 Type : RAB_InformationSetup_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity : p_RAB_Id, cn_DomainIdentity ps_domain, nas_Synchronisation_Indicator OMIT, re_EstablishmentTimer p_Reesttimer }, rb_InformationSetupList {{ rb_Identity tsc_RB25, pdcp_Info { losslessSRNS_RelocSupport notSupported : NULL, pdcp_PDU_Header absent, headerCompressionInfoList OMIT }, rlc_InfoChoice rlc_Info_r5 : p_RLC_Info, rb_MappingInfo }} { ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch : tsc_DL_DCH1, logicalChannelIdentity OMIT }} }, { ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType hsdSCH : 0, logicalChannelIdentity OMIT }} }, { --RB_MappingInfo ul_LogicalChannelMappings oneLogicalChannel:{ --UL_LogicalChannelMapping, ul_TransportChannelType rach: NULL, logicalChannelIdentity tsc_UL_DTCH1, rlc_SizeList explicitList : { { rlc_SizeIndex 2 } }, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType fach:NULL, logicalChannelIdentity tsc_DL_DTCH1 }} } } </pre>	

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ASN.1 Type Constraint Declaration
Constraint Value
<pre> }} }} } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration
<p>Constraint Name : c_RAB_InfoSetupDCH_PS_HS_A10 (</p> <p style="padding-left: 40px;">p_Reesttimer : Re_EstablishmentTimer;</p> <p style="padding-left: 40px;">p_RAB_Id : BITSTRING;</p> <p style="padding-left: 40px;">p_RLC_Info : RLC_Info_r5</p> <p style="padding-left: 40px;">)</p> <p>Group :</p> <p>ASN1 Type : RAB_InformationSetup_r5</p> <p>Derivation Path :</p> <p>Encoding Variation :</p> <p>Comments :</p>
Constraint Value
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity : p_RAB_Id, cn_DomainIdentity ps_domain, nas_Synchronisation_Indicator OMIT, re_EstablishmentTimer p_Reesttimer }, rb_InformationSetupList {{ rb_Identity tsc_RB25, pdcp_Info { losslessSRNS_RelocSupport notSupported : NULL, pdcp_PDU_Header absent, headerCompressionInfoList OMIT }, rlc_InfoChoice rlc_Info_r5 : p_RLC_Info, rb_MappingInfo }} {{ ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity OMIT, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType hsdSCH : 0, logicalChannelIdentity OMIT }} }} }} } </pre>
Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_InfoReconfig25_HSENH
Group	:
ASN1 Type	: RB_InformationReconfig_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { rb_Identity tsc_RB25, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info { ul_RLC_Mode ul_AM_RLC_Mode : cb_UL_AM_RLC, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : { dl_RLC_PDU_size sizeType2 : { part1 2, part2 OMIT }, inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } } }, rlc_OneSidedReEst FALSE }, rb_MappingInfo OMIT, rb_StopContinue OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_InformationRel25
Group	:
ASN1 Type	: RB_InformationReleaseList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ tsc_RB25 }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RLC_InfoAM_Def_HSENH
Group	:
ASN1 Type	: RLC_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_RLC_Mode ul_AM_RLC_Mode : c_UL_AM_RLC_HSENH, dl_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_HSENH, rlc_OneSidedReEst FALSE }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SS_AddOrReconfMAC_dFlow (p_SS_MAC_hs_AddReconfQueue : SS_MAC_hs_AddReconfQueue)
Group	:
ASN1 Type	: SS_AddOrReconfMAC_dFlow
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ mac_hs_AddReconfQueue_List { { mac_hs_AddReconfQueue p_SS_MAC_hs_AddReconfQueue } }, mac_hs_DelQueue_List OMIT }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_SS_MAC_hs_AddReconfQueue (p_MAC_hs_AddReconfQueue : MAC_hs_AddReconfQueue)
Group	:
ASN1 Type	: SS_MAC_hs_AddReconfQueue
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ mACHsAddReconfQueue p_MAC_hs_AddReconfQueue, logicalChannelList { tsc_DL_DTCH1 }, priority 0, discardTimer OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_To11_Rx
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter
Constraint Value	
<pre>normalTFCL_Signalling: complete: { ctfcSize ctfc6Bit: { { ctfc6 0, powerOffsetInformation OMIT }, { ctfc6 1, powerOffsetInformation OMIT }, { ctfc6 2, powerOffsetInformation OMIT }, { ctfc6 3, powerOffsetInformation OMIT }, { ctfc6 4, powerOffsetInformation OMIT }, { ctfc6 5, powerOffsetInformation OMIT }, { ctfc6 6, powerOffsetInformation OMIT }, { ctfc6 7, powerOffsetInformation OMIT }, { ctfc6 8, powerOffsetInformation OMIT }, { ctfc6 9, powerOffsetInformation OMIT }, { ctfc6 10, powerOffsetInformation OMIT }, { ctfc6 11, powerOffsetInformation OMIT } }}}</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFCS_Cmpl0_To11_Tx (p_PowerOffsetInformation : PowerOffsetInformation)
Group	:
ASN1 Type	: TFCS
Derivation Path	:
Encoding Variation	:
Comments	: TFCS information with power offset information – for transmitter
Constraint Value	
normalTFCl_Signalling: complete: { ctfcSize ctfc6Bit: { { ctfc6 0, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 1, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 2, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 3, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 4, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 5, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 6, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 7, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 8, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 9, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 10, powerOffsetInformation c_PowerOffsetInfoComputed }, { ctfc6 11, powerOffsetInformation p_PowerOffsetInformation } }}	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TFC_Allowed_0_1_5_6
Group	:
ASN1 Type	: TFC_Subset
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
allowedTFC_List: { 0 , 1 , 5 , 6 }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoHSSCCH (p_HS_DSCHMacdFlows : HS_DSCHMACdFlows)
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList OMIT, dlTFCS OMIT, hsDSCHMacdFlows p_HS_DSCHMacdFlows }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrChInfoUL_336_148_384k
Group	:
ASN1 Type	: TrCHInfo
Derivation Path	:
Encoding Variation	:
Comments	: 384k restricted to 64k
Constraint Value	
<pre>{ ulconnectedTrCHList { { trchid tsc_UL_DCH1, transportChannelInfo c_DCH_336_TFS_34_UL_10_TC }, { trchid tsc_UL_DCH5, transportChannelInfo c_DCH_148_TFS_UL }}, ulTFCS c_TFCS_Cmpl0_To11_Rx -- sent to SS }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_TrLogMappingDL_MAC_HS
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList OMIT, dlconnectedMACdFlows { { mac_dFlowId 0, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader, dl_TransportChannelType hsdSCH, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList explicitList : { {rlc_SizeIndex 1} }, mac_LogicalChannelPriority 8 }, rB_Identity tsc_RB25, cn_DomainIdentity ps_domain } } } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AM_RLC_HSENH
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize tw128, timerRST tr500, max_RST rst4, pollingInfo { timerPollProhibit tpp100, timerPoll tp100, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AM_RLC_tw_HSENH(p_tw:TransmissionWindowSize)
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ transmissionRLC_Discard noDiscard : dat15, transmissionWindowSize p_tw, timerRST tr500, max_RST rst4, pollingInfo { timerPollProhibit tpp100, timerPoll tp100, poll_PDU OMIT, poll_SDU sdu1, lastTransmissionPDU_Poll TRUE, lastRetransmissionPDU_Poll TRUE, pollWindow pw99, timerPollPeriodic OMIT } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_AddReconfTransChInfoListDCH_PS_384k
Group	:
ASN1 Type	: UL_AddReconfTransChInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> {{ ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH1, transportFormatSet dedicatedTransChTFS: c_DCH_336_TFS_34_UL_10_TC_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH5, transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL }} </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoDCH_PS_384k_HSENH
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd:{ ul_TFCS c_TFCS_Cmpl0_To11_Tx(c_PowerOffsetInfoHigher64k) } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoDCH_PS_64k_HSENH
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd : { ul_TFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_UL_DPCH_InfoACK_HSENH (p_SprdFct: SpreadingFactor; p_PuncLimit: PuncturingLimit; p_UL_ScramblingCode : UL_ScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
ASN1 Type	: UL_DPCH_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ ul_DPCH_PowerControlInfo fdd:{ dpcch_PowerOffset tsc_DPCCH_PowerOffset, -- Actual Value ==-80 pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1 : tsc_TpcStepSize, deltaACK 3, deltaNACK 3, ack_NACK_repetition_factor p_HSDPA_ConfigType.ackNackRepetitionFactor }, modeSpecificInfo fdd :{ scramblingCodeType longSC, scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor p_SprdFct, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit p_PuncLimit } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_CommonInformationDCH_DPCH_Offset_Diff_HSENH (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	: c_DL_CommonInformationDCH_DPCH_Offset_HS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_DPCH_InfoCommon.cfnHandling BY initialise : {cfntargetsfnsframeoffset 0}, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.dl_DPCH_PowerControlInfo BY OMIT, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.positionFixedOrFlexible BY fixed, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.tfcI_Existence BY FALSE, REPLACE modeSpecificInfo.fdd.tx_DiversityMode BY OMIT	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_RB_InfoReconfig25_HSENH
Group	:
ASN1 Type	: RB_InformationReconfig_r5
Derivation Path	: c_RB_InfoReconfig25_HSENH.
Encoding Variation	:
Comments	: RB25
Constraint Value	
REPLACE rlc_Info.ul_RLC_Mode.ul_AM_RLC_Mode BY cd_UL_AM_RLC_HS, REPLACE rlc_Info.dl_RLC_Mode_r5.dl_AM_RLC_Mode_r5.receivingWindowSize BY rw768, REPLACE rlc_Info.dl_RLC_Mode_r5.dl_AM_RLC_Mode_r5.dl_RLC_StatusInfo.timerStatusProhibit BY tsp100	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_TrLogMappingPCH_FACH_PS_RB25
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	: c_TrLogMappingPCH_FACH_PS.
Encoding Variation	:
Comments	: For FDD mode only (PS). map PCCH to PCH and DCCH1, DCCH2, DCCH3, DCCH4, CCCH, BCCH(for BCCH_FACH) to FACH2, and DTCH to FACH1 PS RB is RB25
Constraint Value	
REPLACE dlconnectedTrCHList.[2]. trCH_LogCHMappingList.[0].rB_Identity BY tsc_RB25	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_TrLogMappingRACH_DTCH_RB25
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	: c_TrLogMappingRACH_DTCH.
Encoding Variation	:
Comments	: PS RB is RB25
Constraint Value	
REPLACE ulconnectedTrCHList.[0].trCH_LogCHMappingList.[5].rB_Identity BY tsc_RB25	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_TrLogMappingUL_4DCCH_1DTCH_HS
Group	:
ASN1 Type	: TrCH_LogCHMappingList1
Derivation Path	: cb_TrLogMappingUL_4DCCH_1DTCH_PS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE ulconnectedTrCHList.[0].trCH_LogCHMappingList.[0].rB_Identity BY tsc_RB25	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_AM_RLC_HS
Group	:
ASN1 Type	: UL_AM_RLC_Mode
Derivation Path	: cb_UL_AM_RLC.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE pollingInfo.timerPollProhibit BY tpp100, REPLACE pollingInfo.timerPoll BY tp100	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_UL_DPCH_InfoACK_6_HSENH (p_SprdFct : SpreadingFactor ; p_PuncLimit : PuncturingLimit ; p_UL_ScramblingCode : UL_ScramblingCode ; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
ASN1 Type	: UL_DPCH_Info_r5
Derivation Path	: cb_UL_DPCH_InfoACK_HSENH.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE ul_DPCH_PowerControlInfo.fdd.deltaACK BY 6, REPLACE ul_DPCH_PowerControlInfo.fdd.deltaNACK BY 6	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cs_RB_ActTimeInfoList25 (p_RLC_SN25 : RLC_SequenceNumber)
Group	:
ASN1 Type	: RB_ActivationTimeInfoList
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ c_RB_ActTimeInfo(tsc_RB25, p_RLC_SN25) }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfo2ListDCCH_r5
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ c_DL_AddReconfTransChInfo2_r5 (tsc_DL_DCH5 , tsc_UL_DCH5) }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfo2_r5 (p_DITrChId:TransportChannelIdentity; p_UITrChId:TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch : p_DITrChId, tfs_SignallingMode sameAsULTrCH : { ul_TransportChannelType dch, ul_TransportChannelIdentity p_UITrChId }, dch_QualityTarget OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoDCH_PS_r5 (p_TrchID : TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch : p_TrchID, tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_336_TFS_UE, dch_QualityTarget { bler_QualityValue -20 -- Actual Value = IE Value * 0.1 } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfoListDCCH_SRB_r4
Group	:
ASN1 Type	: DL_AddReconfTransChInfoList_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ c_DL_AddReconfTransChInfo_r4 (tsc_DL_DCH5,tsc_UL_DCH5) }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_AddReconfTransChInfo_r4 (p_DITrChId:TransportChannelIdentity; p_UITrChId:TransportChannelIdentity)
Group	:
ASN1 Type	: DL_AddReconfTransChInformation_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ dl_TransportChannelType dch, dl_transportChannelIdentity p_DITrChId, tfs_SignallingMode sameAsULTrCH : { ul_TransportChannelType dch, ul_TransportChannelIdentity p_UITrChId }, dch_QualityTarget{ bler_QualityValue -20 -- Actual Value = IE Value * 0.1 } }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_DL_AddReconfTransChInfo_r5 (p_DITrChId:TransportChannelIdentity; p_UITrChId:TransportChannelIdentity) Group : ASN1 Type : DL_AddReconfTransChInformation_r5 Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> { dl_TransportChannelType dch : p_DITrChId, tfs_SignallingMode sameAsULTrCH : { ul_TransportChannelType dch, ul_TransportChannelIdentity p_UITrChId }, dch_QualityTarget OMIT } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationDCH_DPCH_Offset_r4 (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon{ cfnHandling initialise : { cfnTargetsfnframeoffset OMIT }, modeSpecificInfo fdd:{ dl_DPCH_PowerControlInfo { modeSpecificInfo fdd:{ dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible flexible, tfci_Existence TRUE }, mac_d_HFN_initial_value OMIT }, modeSpecificInfo fdd:{ defaultDPCH_OffsetValue tsc_DefaultDPCH_OffsetValue, dpch_CompressedModeInfo OMIT, tx_DiversityMode noDiversity, ssdt_Information OMIT } } </pre>	
Detailed Comments	: NOTE : not aligned with 34.108. Reason:The value 'inactive' in 34.018 is not valid with asn.1 definition v360

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationRB_SetUp_r5 (p_Sf : SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon { cfnHandling maintain : NULL, modeSpecificInfo fdd : { dl_DPCH_PowerControlInfo { modeSpecificInfo fdd : { dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible flexible, tfci_Existence TRUE } }, modeSpecificInfo fdd : { defaultDPCH_OffsetValue OMIT, dpch_CompressedModelInfo OMIT, tx_DiversityMode noDiversity, ssdt_Information OMIT }, mac_hsResetIndicator OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInformationRB_StandAloneSRB_r5 (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon{ cfnHandling maintain :NULL, modeSpecificInfo fdd:{ dl_DPCH_PowerControlInfo { modeSpecificInfo fdd:{ dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible fixed, tfci_Existence FALSE } }, modeSpecificInfo fdd:{ defaultDPCH_OffsetValue OMIT, dpch_CompressedModeInfo OMIT , tx_DiversityMode noDiversity, ssdt_Information OMIT }, mac_hsResetIndicator OMIT } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonTransChInfoDCH_r4 (p_Tfcs : TFCS)
Group	:
ASN1 Type	: DL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { sccpch_TFCS OMIT, modeSpecificInfo fdd : { dl_Parameters dl_DCH_TFCS : { tfcs p_Tfcs } } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonTransChInfoSameAsUL_r4
Group	:
ASN1 Type	: DL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ sccpch_TFCS OMIT, modeSpecificInfo fdd : { dl_Parameters sameAsUL : NULL } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_InfoPerRL_DCH_OrFACH_ToFACH_PS_r5(p_ScrmbCode: PrimaryScramblingCode)
Group	:
ASN1 Type	: DL_InformationPerRL_List_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{{ modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode}, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator FALSE }, dl_DPCH_InfoPerRL OMIT, sccpch_InfoforFACH OMIT }}</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : c_DL_InfoPerRL_DPCH_Offset_r5bis (p_ScrambCode : PrimaryScramblingCode ; p_SecScrambCode : SecondaryScramblingCode ; p_Sf : SF512_AndCodeNumber) Group : ASN1 Type : DL_InformationPerRL_List_r5bis Derivation Path : Encoding Variation : Comments :	
Constraint Value	
<pre> {{ modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrambCode } , pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT } , dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecScrambCode, sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex tsc_TPC_CombinationIndex, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT }} </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name : c_DL_InformationPerRL_r5 (<p> p_ScrmbCode : PrimaryScramblingCode; p_Sf : SF512_AndCodeNumber; p_SecondaryScramblingCode : SecondaryScramblingCode </p>)	
Group :	
ASN1 Type :	DL_InformationPerRL_List_r5
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre> {{ modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ScrmbCode }, pdsch_SHO_DCH_Info OMIT, pdsch_CodeMapping OMIT, servingHSDSCH_RL_indicator FALSE }, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber p_Sf, scramblingCodeChange noCodeChange }}, tpc_CombinationIndex tsc_TPC_CombinationIndex, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, sccpch_InfoforFACH OMIT }} </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_RB_InfoReconfigList20_r5
Group	:
ASN1 Type	: RB_InformationReconfigList_r5
Derivation Path	:
Encoding Variation	:
Comments	: SRB1 to SRB4 and RB20
Constraint Value	
<pre> { { rb_Identity tsc_RB1, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info OMIT, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB2, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info OMIT, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB3, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info OMIT, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB4, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info OMIT, rb_MappingInfo OMIT, rb_StopContinue OMIT }, { rb_Identity tsc_RB20, pdcp_Info OMIT, pdcp_SN_Info OMIT, rlc_Info OMIT, rb_MappingInfo OMIT, rb_StopContinue OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoDCCH_13_6k_r4
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd : { ul_TFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) }, tfc_SubsetList OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_CommTrChInfoDCH_PS_64k_r4
Group	:
ASN1 Type	: UL_CommonTransChInfo_r4
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ tfc_Subset OMIT, prach_TFCS OMIT, modeSpecificInfo fdd : { ul_TFCS c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Tx (c_PowerOffsetInfoHigher64k) } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_DPCH_13_6_StandAlone_r4 (p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
ASN1 Type	: UL_DPCH_Info_r4
Derivation Path	:
Encoding Variation	:
Comments	: This DPCH is the same as stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH. Used for RLC AM and UM mode testing.
Constraint Value	
<pre> { ul_DPCH_PowerControlInfo fdd:{ dpcch_PowerOffset tsc_DPCCH_PowerOffset, pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1: tsc_TpcStepSize }, modeSpecificInfo fdd :{ scramblingCodeType longSC , scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor tsc_UL_DPDCH_SF_SRB, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit pl1 } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: c_UL_DPCH_13_6_StandAlone_r5 (p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
ASN1 Type	: UL_DPCH_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	: this DPCH is the same as stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH. Used for RLC AM and UM mode testing.
Constraint Value	
<pre> { ul_DPCH_PowerControlInfo fdd : { dpcch_PowerOffset tsc_DPCCH_PowerOffset, pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1: tsc_TpcStepSize, deltaACK OMIT, deltaNACK OMIT, ack_NACK_repetition_factor OMIT }, modeSpecificInfo fdd :{ scramblingCodeType longSC , scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor tsc_UL_DPDCH_SF_SRB, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit pl1 } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_AM_RLC_r5
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_RLC_PDU_size sizeType1 : 16, -- 144 : 128 payload size + 16 inSequenceDelivery TRUE, receivingWindowSize rw128, dl_RLC_StatusInfo { timerStatusProhibit tsp200, --timerEPC OMIT missingPDU_Indicator TRUE, timerStatusPeriodic OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_DPCH_64K_PS_r5 (p_DL_CommonInformation : DL_CommonInformation_r5; p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList { {secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber tsc_DL_DPCH1_ChC_64k_PS } }, tpc_CombinationIndex 0 }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH_64k, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name : cb_DL_DPCH_Info_r5 (p_sf : SF512_AndCodeNumber; p_DL_CommonInformation : DL_CommonInformation_r5; p_secondaryScramblingCode: SecondaryScramblingCode)	
Group :	
ASN1 Type : DL_DPCHInfo_r5	
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre> { dl_CommonInformation p_DL_CommonInformation, dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList {{ secondaryScramblingCode p_secondaryScramblingCode, sf_AndCodeNumber p_sf }}, tpc_CombinationIndex 0 }, powerOffsetOfTFCl_PO1 tsc_DPCH_PowerOffsetTFCl, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_DL_DPCH_SRB_StandAloneDPCH_Offset_r5 (p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_CommonInformation cd_DL_CommonInfoDCH_DPCH_Offset_r5 (tsc_DL_DPCH1_SFP_SRB), dl_DPCH_InfoPerRL fdd : { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset (((tsc_DefaultDPCH_OffsetValue*512) MOD 38400) / 256), -- DPCH-FrameOffset = DefaultDPCH-OffsetValueFDD MOD 38400 -- Actual value DPCH-FrameOffset = IE value * 256 -- Actual value DefaultDPCH-OffsetValueFDD = IE value * 512 , dl_ChannelisationCodeList { { secondaryScramblingCode p_SecondaryScramblingCode , sf_AndCodeNumber tsc_DL_DPCH1_ChC_SRB } }, tpc_CombinationIndex 0 }, powerOffsetOfTFCL_PO1 tsc_DPCH_PowerOffsetTFCL, powerOffsetOfTPC_PO2 tsc_DPCH_PowerOffsetTPC, powerOffsetOfPILOT_PO3 tsc_DPCH_PowerOffsetPILOT, dl_TxPower tsc_DL_TxPower_DPCH, dl_TxPowerMax 15, dl_TxPowerMin -35 } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cb_UL_DPCH_Info_r5 (p_SprdFct: SpreadingFactor; p_PuncLimit: PuncturingLimit; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
ASN1 Type	: UL_DPCH_Info_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { ul_DPCH_PowerControlInfo fdd : { dpcch_PowerOffset tsc_DPCCH_PowerOffset, pc_Preamble 1, sRB_delay 7, powerControlAlgorithm algorithm1 : tsc_TpcStepSize }, modeSpecificInfo fdd : { scramblingCodeType longSC, scramblingCode p_UL_ScramblingCode, numberOfDPDCH OMIT, spreadingFactor p_SprdFct, tfci_Existence TRUE, numberOfFBI_Bits OMIT, puncturingLimit p_PuncLimit } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_AM_RLC_SRB_r5
Group	:
ASN1 Type	: DL_AM_RLC_Mode_r5
Derivation Path	: cb_DL_AM_RLC_r5.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE receivingWindowSize BY rw32	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_CommonInformationDCH_DPCH_Offset_r4 (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r4
Derivation Path	: c_DL_CommonInformationDCH_DPCH_Offset_r4.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.positionFixedOrFlexible BY fixed, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.tpci_Existence BY FALSE	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_CommonInfoDCH_DPCH_Offset_r5 (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	: c_DL_CommonInfoDCH_DPCH_Offset_r5.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.positionFixedOrFlexible BY fixed, REPLACE dl_DPCH_InfoCommon.modeSpecificInfo.fdd.tpci_Existence BY FALSE	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: c_DL_CommonInfoDCH_DPCH_Offset_r5 (p_Sf: SF512_AndPilot)
Group	:
ASN1 Type	: DL_CommonInformation_r5
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre> { dl_DPCH_InfoCommon { cfnHandling initialise : { cfnTargetsInframeoffset OMIT }, modeSpecificInfo fdd : { dl_DPCH_PowerControlInfo { modeSpecificInfo fdd : { dpc_Mode singleTPC } }, powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT, dl_rate_matching_restriction OMIT, spreadingFactorAndPilot p_Sf, positionFixedOrFlexible flexible, tfci_Existence TRUE } }, modeSpecificInfo fdd : { defaultDPCH_OffsetValue tsc_DefaultDPCH_OffsetValue, dpch_CompressedModelInfo OMIT, tx_DiversityMode noDiversity, ssdt_Information OMIT } } </pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: cd_DL_DPCH_SRB_Scram_HS (p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf: SF512_AndCodeNumber)
Group	:
ASN1 Type	: DL_DPCHInfo_r5
Derivation Path	: c_DL_DPCH_SRB_HS.
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE dl_DPCH_InfoPerRL.fdd.dl_ChannelisationCodeList.[0].secondaryScramblingCode BY p_SecondaryScramblingCode, REPLACE dl_CommonInformation BY cd_DL_CommonInformationDCH_DPCH_Offset_HS (tsc_DL_DPCH1_SFP_SRB_3_4k)	
Detailed Comments	:

ASP Constraint Declaration		
Constraint Name : car_TestDataInd(p_RB_Identity : SS_RB_Identity; p_PDU: PDU) Group : ASP Type : RLC_TR_TestDataInd Derivation Path : Comments : To indicate the reception of unstructured data using transparent mode in the uplink direction		
Parameter Name	Parameter Value	Comments
cellId	tsc_CellDedicated	Default Cell
rB_Id	p_RB_Identity	RB identity (RB3 or RB4)
data	p_PDU	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : cas_TestDataReq(p_RB_Identity : SS_RB_Identity; p_PDU: PDU) Group : ASP Type : RLC_TR_TestDataReq Derivation Path : Comments : To request the transmission of unstructured data using transparent mode in the downlink direction. TTCN writer is requires to send data according to the transport block size allowed.		
Parameter Name	Parameter Value	Comments
cellId	tsc_CellDedicated	Default Cell ID
rB_Id	p_RB_Identity	RB identity (RB3 or RB4)
data	p_PDU	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : c_G_CL1_ChangePowerLevel_CNF (p_CellId : CellId ; p_PhychId : PhysicalChId)		
Group :		
ASP Type : G_CL1_ChangePowerLevel_CNF		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	Channel identifier
physicalChId	p_PhychId	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : c_G_CL1_ChangePowerLevel_REQ (p_CellId : CellId ; p_PhyChId : PhysicalChId ; p_txPow : TX_Power) Group : ASP Type : G_CL1_ChangePowerLevel_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId physicalChId txPower	p_CellId p_PhyChId p_txPow	Channel identifier the new transmission power level. in dBuVemf()
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_BasicPhyChCnf(p_CellId : CellId; p_PhyChId :PhysicalChId) Group : ASP Type : G_CL1_CreateBasicPhyCh_CNF Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId physicalChId	p_CellId p_PhyChId	identifier of the physical channel created
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_BasicPhyChCombType11(p_CellId : CellId; p_PhyChId : PhysicalChId; p_CellCfgInfo : G_CellConfigInfo; p_FreqInfo : FreqInfo; p_TimeSlot : TN; p_Tsc : TSC; p_PCCHParams : PCCCH_OrganisationParameters; p_PBCCHInfo : PBCCH_Info) Group : ASP Type : G_CL1_CreateBasicPhyCh_REQ Derivation Path : Comments : PBCCH + PCCCH + PDTCH/F + PACCH/F + PTCCH/F		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	identifier of the physical channel created
physicalChId	p_PhyChId	
channelCombination	tsc_BasicPhyChCombType11	logical channels combined onto the basic physical channel
freqInfo	p_FreqInfo	the time slot number of the physical channel
timeSlot	p_TimeSlot	
tSC	p_Tsc	
channelSpecificPara	c_ChSpecificPara(OMIT, OMIT, c_PCCCH_Info(p_PCCHParams.bS_PBCCH_BLKs, p_PCCHParams.bS_PAG_BLKs_RES , p_PCCHParams.bS_PRACH_BLKs), p_PBCCHInfo)	
txPower	p_CellCfgInfo.downlinkPowerLevel	
bandIndicator	p_CellCfgInfo.bandIndicator	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_BasicPhyChCombType13(p_CellId : CellId; p_PhyChId : PhysicalChId; p_CellCfgInfo : G_CellConfigInfo; p_FreqInfo : FreqInfo; p_TimeSlot : TN; p_Tsc : TSC) Group : ASP Type : G_CL1_CreateBasicPhyCh_REQ Derivation Path : Comments : PDTCH/F + PACCH/F + PTCCH/F		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	identifier of the physical channel created
physicalChId	p_PhyChId	
channelCombination	tsc_BasicPhyChCombType13	logical channels combined onto the basic physical channel
freqInfo	p_FreqInfo	the time slot number of the physical channel
timeSlot	p_TimeSlot	
tSC	p_Tsc	
channelSpecificPara	OMIT	
txPower	p_CellCfgInfo.downlinkPowerLevel	
bandIndicator	p_CellCfgInfo.bandIndicator	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_BasicPhyChCombType5(p_CellId : CellId; p_PhyChId :PhysicalChId; p_CellCfgInfo : G_CellConfigInfo; p_CipherKey : B64) Group : ASP Type : G_CL1_CreateBasicPhyCh_REQ Derivation Path : Comments : FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3)		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	identifier of the physical channel created
physicalChId	p_PhyChId	
channelCombination	tsc_BasicPhyChCombType5	logical channels combined onto the basic physical channel
freqInfo	c_FreqInfoBCCH(p_CellCfgInfo.bCCH_Freq)	the time slot number of the physical channel
timeSlot	tsc_TN0	
tSC	p_CellCfgInfo.bcc	
channelSpecificPara	c_ChSpecificPara(c_SDCCH4_Ch(p_CellCfgInfo.cipherMode, p_CipherKey, px_PowerLevel, px_TimingAdvance), c_CCCH_Info(p_CellCfgInfo.bS_PA_MFRMS, p_CellCfgInfo.bS_AG_BLKES_RES), OMIT,OMIT)	
txPower	p_CellCfgInfo.downlinkPowerLevel	
bandIndicator	p_CellCfgInfo.bandIndicator	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_CellId(p_CellId : CellId; p_NCC, p_BCC : B3; p_TA :O1)		
Group :		
ASP Type : G_CL1_CreateCell_REQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
baseId	o_BitstringConcat(p_NCC,p_BCC,3,3)	
timingAdvance	o_OctToBit(p_TA)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_CellIdCnf(p_CellId : CellId) Group : ASP Type : G_CL1_CreateCell_CNF Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CL1_DeleteCell_CNF (p_CellId : CellId) Group : ASP Type : G_CL1_DeleteCell_CNF Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CL1_DeleteCell_REQ (p_CellId : CellId) Group : ASP Type : G_CL1_DeleteCell_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CL1_DeleteChannel_CNF (p_CellId : CellId; p_PhyChId : PhysicalChId)		
Group :		
ASP Type : G_CL1_DeleteChannel_CNF		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	identifier of the physical channel or the multi-slot configuration to be deleted
physicalChId	p_PhyChId	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CL1_DeleteChannel_REQ (p_CellId : CellId; p_PhyChId : PhysicalChId)		
Group :		
ASP Type : G_CL1_DeleteChannel_REQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	identifier of the physical channel or the multi-slot configuration to be deleted
physicalChId	p_PhyChId	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_L2_UnitDataInd_MeasReport(p_CellID:CellId ; p_PhyChId : PhysicalChId ; p_Logch : G_LogicChType ; p_SubChNum :SubChannelNumber ; p_RFN :RFN; p_msg :PDU) Group : ASP Type : G_L2_UNITDATA_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellID	0
sAPI	0	
physicalChId	p_PhyChId	Channel identifier
g_LogicChType	p_Logch	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
subChannel	p_SubChNum	
rfn	p_RFN	The reduced frame number of the first frame carrying the message
msg	p_msg	Signalling message or user data received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_L2_Unitdata_Ind_ChannelReq(p_CellId: CellId; p_PhyId :PhysicalChId ; p_LogType :G_LogicChType ; p_RFN : RFN; p_Msg : PDU) Group : ASP Type : G_L2_UNITDATA_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId sAPI physicalChId g_LogicChType subChannel	p_CellId 0 p_PhyId p_LogType OMIT	Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
rfn	p_RFN	The reduced frame number of the first frame carrying the message
msg	p_Msg	Signalling message or user data received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo1(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_CellAlloc : CellChDescr; p_RACHControlParam: RACHControlParam; p_BandInd : B1) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId sAPI physicalChId g_LogicChType instanceIndex sysInfoType bCCHExt	p_CellId tsc_SAPI_0 p_PhyCh tsc_BCCH 0 tsc_SysInfoType1 '0'B	0 Channel identifier BCCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
msg	c_SysInfoType1(p_CellAlloc, p_RACHControlParam, p_BandInd)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo13(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_BCCHExt : B1; p_SI13RO: SI13RO) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	Channel identifier
g_LogicChType	tsc_BCCH	BCCH
instanceIndex	0	'0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sysInfoType	tsc_SysInfoType13	
bCCHExt	p_BCCHExt	
msg	c_SysInfoType13(p_SI13RO)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo2(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_NeighBCCHs: NeighCellDescr;p_NCC_Permitted: O1;p_RACHControlParam: RACHControlParam) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	Channel identifier
g_LogicChType	tsc_BCCH	BCCH
instanceIndex	0	'0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sysInfoType	tsc_SysInfoType2	
bCCHExt	'0'B	
msg	c_SysInfoType2(p_NeighBCCHs, p_NCC_Permitted, p_RACHControlParam)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo2bis(p_CellId :INTEGER; p_PhyCh :PhysicalChId; p_InstanceIndex : INTEGER; p_XneighCellFreqList :NeighCellDescr; p_RACHControlParam: RACHControlParam) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier BCCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	tsc_BCCH	
instanceIndex	p_InstanceIndex	
sysInfoType	tsc_SysInfoType2bis	
bCCHExt	'0'B	
msg	c_SysInfoType2bis(p_XneighCellFreqList, p_RACHControlParam)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo2quater(p_CellId :INTEGER; p_PhyCh :PhysicalChId; p_InstanceIndex : INTEGER; p_BCCHExt : B1; p_SI2quaterRO: SI2quaterRO) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier BCCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	tsc_BCCH	
instanceIndex	p_InstanceIndex	
sysInfoType	tsc_SysInfoType2quater	
bCCHExt	p_BCCHExt	
msg	c_SysInfoType2quater(p_SI2quaterRO)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo3(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_CellIdentity : O2; p_LAI: LocAreald_v ;p_ControlChDescr:ControlChDescr; p_CellOption: CellOptionBCCH; p_CellSelParam : CellSelParam; p_RACHControlParam: RACHControlParam; p_SI3RO: SI3RO) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier BCCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	tsc_BCCH	
instanceIndex	0	
sysInfoType	tsc_SysInfoType3	
bCCHExt	'0'B	
msg	c_SysInfoType3(p_CellIdentity, p_LAI, p_ControlChDescr, p_CellOption, p_CellSelParam, p_RACHControlParam, p_SI3RO)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo4(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_LAI: LocAreald_v; p_CellSelParam : CellSelParam; p_RACHControlParam: RACHControlParam; p_SI4RO: SI4RO) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier BCCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	tsc_BCCH	
instanceIndex	0	
sysInfoType	tsc_SysInfoType4	
bCCHExt	'0'B	
msg	c_SysInfoType4(p_LAI, p_CellSelParam, p_RACHControlParam, p_SI4RO)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo5(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_LogicChType: G_LogicChType; p_NeighCellFreqList :NeighCellDescr) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier SACCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	p_LogicChType	
instanceIndex	0	
sysInfoType	tsc_SysInfoType5	
bCCHExt	'0'B	
msg	c_SysInfoType5(p_NeighCellFreqList)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo5bis(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_LogicChType: G_LogicChType; p_XneighCellFreqList :NeighCellDescr) Group : ASP Type : G_L2_SYSINFO_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier SACCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	p_LogicChType	
instanceIndex	0	
sysInfoType	tsc_SysInfoType5bis	
bCCHExt	'0'B	
msg	c_SysInfoType5bis(p_XneighCellFreqList)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_SysInfo6(p_CellId :INTEGER;p_PhyCh :PhysicalChId; p_LogicChType: G_LogicChType; p_CellIdentity : O2; p_LAI:LocAreaId_v; p_CellOptionSACCH: CellOptionSACCH; p_NCCPermitted : NCCPermitted; p_SI6RO: SI6RO)		
Group :		
ASP Type : G_L2_SYSINFO_REQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier SACCH '0' indicates message sent on BCCH Norm '1' indicates message sent on BCCH Ext. Only valid for SI2quater, 7, 8, 13, 16, 17. Default value '0'.
sAPI	tsc_SAPI_0	
physicalChId	p_PhyCh	
g_LogicChType	p_LogicChType	
instanceIndex	0	
sysInfoType	tsc_SysInfoType6	
bCCHExt	'0'B	
msg	c_SysInfoType6(p_CellIdentity, p_LAI, p_CellOptionSACCH, p_NCCPermitted, p_SI6RO)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : cabr_G_L2_ACCESS_IND (p_CellId : CellId ; p_PhysicalChId : PhysicalChId ; p_G_LogicChType: G_LogicChType ; p_subcn : SubChannelNumber ; p_rfn : RFN ; p_burst : PDU)		
Group :		
ASP Type : G_L2_ACCESS_IND		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	Channel identifier
physicalChId	p_PhysicalChId	
g_LogicChType	p_G_LogicChType	
subChannel	p_subcn	
rfn	p_rfn	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4.This field is not applicable and the SS shall ignore it if this field is coded as 15.
burst	p_burst	The reduced frame number of the frame carrying the burst random access burst or handover access burst
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_G_L2_L2Estab_IND (p_CellId : CellId; p_Msg : PDU) Group : ASP Type : G_L2_L2Estab_IND Derivation Path : Comments : The ASP is used to receive an indication of that L2 multiple frame operation on the specified channel has been established.		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	Channel identifier
physicalChId	?	
g_LogicChType	?	
subChannel	?	
sAPI	?	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field shall be coded as 15 if it is not applicable.
establish_mode	?	0, 3
rfrn	?	Norm
msg	p_Msg	The reduced frame number of the first frame carries the L2 SABM frame this field is present only when the establishdg mode is CoRes (collision resolution)
Detailed Comments : see 3GPP TS 44.006 clause 7.1.1 and 7.1.3		

ASP Constraint Declaration		
Constraint Name : cas_G_L2_DATA_REQ (p_CellId: CellId; p_SAPI : SAPI ; p_PhyId :PhysicalChId ; p_LogType : G_LogicChType ; p_SubchNo : SubChannelNumber; p_RFN : RFN; p_Msg : PDU) Group : ASP Type : G_L2_DATA_REQ Derivation Path : Comments : The ASP is used to send L3 signalling message on the signalling channels or user data on the traffic channels to the UE/MS in acknowledged mode.		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
sAPI	p_SAPI	
physicalChId	p_PhyId	
g_LogicChType	p_LogType	
subChannel	p_SubchNo	
rfn	p_RFN	The reduced frame number of the first frame on which this message is sent.If the field t2 of rfn is coded as '11111'B lower layer shall ignore this field.
msg	p_Msg	Signalling message or user data to be sent
Detailed Comments : Parameter fn is only used in the test cases which requires specific L3 message to be sent on specified frame number		

ASP Constraint Declaration		
Constraint Name : cas_G_L2_UNITDATA_REQ (p_CellId:CellId;p_PhysicalChId : PhysicalChId;p_G_LogicChType: G_LogicChType; p_subcn : SubChannelNumber;p_RFN : RFN; p_Msg : PDU) Group : ASP Type : G_L2_UNITDATA_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
sAPI	0	
physicalChId	p_PhysicalChId	
g_LogicChType	p_G_LogicChType	
subChannel	p_subcn	
rfn	p_RFN	The reduced frame number of the first frame on which this message is sent.If the field t2 of rfn is coded as '11111'B lower layer shall ignore this field.
msg	p_Msg	Signalling message or user data to be sent
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : cr_G_L2_Release_IND (p_CellId : INTEGER) Group : ASP Type : G_L2_Release_IND Derivation Path : Comments : The ASP is used to receive an indication of the termination of an established multiple frame operation or an indication of an unsuccessful establishment attempt.		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
sAPI	?	
physicalChId	?	
g_LogicChType	?	
subChannel	?	
release_Mode	?	0 = normal release; 1 = local end release
outstanding_Indicator	?	whether or not there are outstanding acknowledgements or unsolved G_L2_DATA_REQ primitives.
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : cr_G_L2_DATA_IND (p_CellId: CellId; p_SAPI : SAPI ; p_PhyId :PhysicalChId ; p_LogType :G_LogicChType ; p_SubchNo : SubChannelNumber; p_RFN : RFN; p_Msg : PDU) Group : ASP Type : G_L2_DATA_IND Derivation Path : Comments : The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in acknowledged mode.		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
sAPI	p_SAPI	
physicalChId	p_PhyId	
g_LogicChType	p_LogType	
subChannel	p_SubchNo	
rfn	p_RFN	The reduced frame number of the first frame on which this message is received
msg	p_Msg	Signalling message or user data received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CL2_MeasRptControl_CNF(p_CellId : CellId; p_PhyCh : PhysicalChId)		
Group :		
ASP Type : G_CL2_MeasRptControl_CNF		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	Channel identifier
physicalChId	p_PhyCh	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CL2_MeasRptControl_REQ(p_CellId : CellId; p_PhyCh : PhysicalChId; p_LogCh : G_LogicChType; p_SubCh : SubChannelNumber; p_OnOff : BOOLEAN) Group : ASP Type : G_CL2_MeasRptControl_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	Channel identifier Valid only for logical channel types: SACCH/TF, SACCH/TH, SACCH/C8 and SACCH/C4
physicalChId	p_PhyCh	
g_LogicChType	p_LogCh	
subChannel	p_SubCh	For SACCH/TH value is (0..1), for SACCH/C8 value is (0..7) and for SACCH/C4 value is (0..3)
sendMeasRpts	p_OnOff	Whether or not to report received Measurement Reports to the TTCN
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_G_RLC_ControlMsg_IND(p_CellId : CellId; p_PhyChId:PhysicalChId; p_msg: PDU) Group : ASP Type : G_RLC_ControlMsg_IND Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	Channel identifier PCCCH or PACCH or PTCH
physicalChId	p_PhyChId	
g_LogicChType	tsc_PACCH_F	
tBF_Direction	?	0 --- downlink; 1 --- uplink
tFI	?	temporary flow identity
rfrn	?	the reduced frame number of the frame carrying this message
msg	p_msg	uplink RLC/MAC control message
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CRLC_CreateRLC_MAC_REQ(p_cellId: CellId) Group : ASP Type : G_CRLC_CreateRLC_MAC_REQ Derivation Path : Comments : The ASP is used to create a RLC/MAC entity in GERAN RLC/MAC emulation module.		
Parameter Name	Parameter Value	Comments
cellId	p_cellId	The identifier of the cell
Detailed Comments : One RLC/MAC entity per cell can exist, cellId will be used for coupling LLC layer module to the RLC/MAC emulation module.. The packet channel description given in the ChannelSpecificInfo of G_CL1_CreateBasicPhyCh_REQ shall be used to configure this layer. This ASP shall be called after the G_CL1_CreateBasicPhyCh_REQ ASP.		

ASP Constraint Declaration		
Constraint Name : ca_G_CRLC_CreateRLC_MAC_CNF(p_cellId: CellId) Group : ASP Type : G_CRLC_CreateRLC_MAC_CNF Derivation Path : Comments : The ASP is used to confirm the G_CRLC_CreateRLC_MAC_REQ		
Parameter Name	Parameter Value	Comments
cellId	p_cellId	The identifier of the cell
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CRLC_DeleteRLC_MAC_REQ(p_cellId: CellId) Group : ASP Type : G_CRLC_DeleteRLC_MAC_REQ Derivation Path : Comments : The ASP is used to delete a RLC/MAC entity in GERAN RLC/MAC emulation module.		
Parameter Name	Parameter Value	Comments
cellId	p_cellId	The identifier of the cell
Detailed Comments : This ASP is used to release any resource used for the RLC/MAC emulation entity in the SS.		

ASP Constraint Declaration		
Constraint Name : ca_G_CRLC_DeleteRLC_MAC_CNF Group : ASP Type : G_CRLC_DeleteRLC_MAC_CNF Derivation Path : Comments : The ASP is used to delete a RLC/MAC entity in GERAN RLC/MAC emulation module.		
Parameter Name	Parameter Value	Comments
cellId	?	The identifier of the cell
Detailed Comments : This ASP is used to release any resource used for the RLC/MAC emulation entity in the SS.		

ASP Constraint Declaration		
Constraint Name : ca_G_RLC_PSI_REQ(p_cellId:CellId; p_physicalChId:PhysicalChId; p_PSIcategory:PSI_Category; p_PosInList: PositionInList; p_PSIMessage:PDU) Group : ASP Type : G_RLC_PSI_REQ Derivation Path : Comments : The ASP is used to send packet system information messages to the lower layer emulator.		
Parameter Name	Parameter Value	Comments
cellId	p_cellId	Channel identifier PBCCH or PACCH or PCCCH PSI1 or high repetition rate or low repetition rate Position in the high repetition rate list or the low repetition rate list, for PSI1 this field has no meaning. This field contains PACKET SYSTEM INFORMATION message. See 3GPP TS 44.060 section 11.2.18 to section 11.2.25 for PACKET SYSTEM INFORMATION message definitions.
physicalChId	p_physicalChId	
g_LogicChType	tsc_PBCCH_LogicalType	
packetSysInfoCategory	p_PSIcategory	
positionInList	p_PosInList	
msg	p_PSIMessage	
Detailed Comments : On BCCH, the lower layer emulator shall store the PACKET SYSTEM INFORMATION's, and transmit them according to the rules specified in section 6.3.2.4 of 3GPP TS 45.002. The msg shall override the same type system information message previous stored in the lower layer emulator. Multiple instances of a PSI shall be put in the same list and in ascending order of the message instance number.		

ASP Constraint Declaration		
Constraint Name : c_G_L2_DATA_IND (p_cellId : CellId ; p_msg : PDU) Group : ASP Type : G_L2_DATA_IND Derivation Path : Comments : The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in acknowledged mode.		
Parameter Name	Parameter Value	Comments
cellId	p_cellId	0 Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3).
sAPI	?	
physicalChId	?	
g_LogicChType	?	
subChannel	?	
rtn	*	The reduced frame number of the first frame on which this message is received
msg	p_msg	Signalling message or user data received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_G_LLC_UnitData_IND (p_LLMEID : LLMEID ; p_Msg : PDU)		
Group :		
ASP Type : G_LLC_UNITDATA_IND		
Derivation Path :		
Comments : The ASP is used to receive an L3 PDU from the UE/MS in LLC unconfirmed transmission.		
Parameter Name	Parameter Value	Comments
lLMEId	p_LLMEID	temporary logical link identifier
tLLI	?	
sAPI	?	
msg	p_Msg	L3 PDU
Detailed Comments : 3GPP TS 44.064 clause 8.4.2		

ASP Constraint Declaration		
Constraint Name : cas_G_LLC_UnitData_Req (p_LLMEID : LLMEID ; p_TLLI : TLLI ; p_Sapi : SAPI ; p_ProtectMode : B1 ; p_CipherMode : B1 ; p_Msg : PDU)		
Group :		
ASP Type : G_LLC_UNITDATA_REQ		
Derivation Path :		
Comments : The ASP is used to transmit an L3 PDU to the UE/MS in LLC unconfirmed transmission.		
Parameter Name	Parameter Value	Comments
lLMEId	p_LLMEID	temporary logical link identifier
tLLI	p_TLLI	
sAPI	p_Sapi	
protectMode	p_ProtectMode	0 --- unprotected; 1 --- protected
cipherMode	p_CipherMode	0 --- no encryption; 1 --- encrypted
msg	p_Msg	L3 PDU
Detailed Comments : 3GPP TS 44.064 clause 8.4.1		

ASP Constraint Declaration		
Constraint Name : ca_ActivateTBF_UplinkDyn (p_CellId : CellId ; p_rLC_Mode : BITSTRING; p_USFRate : INTEGER)		
Group :		
ASP Type : G_CRLC_UL_TBF_Config_REQ		
Derivation Path :		
Comments : the ASP is used to configure a TBF used for uplink data transfer		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 – GPRS; 1 – EGPRS CS–1 0 – CS–1 or MCS–1(EGPRS); 1 – same as channelCoding 0 – acknowledged mode; 1 – unacknowledged mode This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B. This parameter controls the speed of the UL TBF transferring data blocks by controlling the USF rate: 1----> implementation dependent. TTCN does not specify the USF generating rate; 2----> 10 USF's per second; 3----> 5 USF's per second; 4----> 1 USF per second; 5----> 1 USF per 2 seconds; 6----> 1 USF per 3 seconds; 7----> 1 USF per 4 seconds
tFI	tsc_uplinkTFI	
tBF_Mode	'0'B	
channelCoding	1	
tLLI_BlockChannelCoding	'1'B	
rLC_Mode	p_rLC_Mode	
startingTime	c_G_RFN_Omit	
uSF_Rate	p_USFRate	
dynamicAllocation	cs_DynamicAllocation	
Detailed Comments : For GPRS channel coding can be: CS–1, CS–2, CS–3 and CS–4;For EGPRS channel coding can be : MCS–1, MCS–2, MCS–3, MCS–4, MCS–5, MCS–6, MCS–7, MCS–8, MCS–9, MCS–5–7 and MCS–6–9.		

ASP Constraint Declaration		
Constraint Name : ca_Activate_UL_TBF_CNF		
Group :		
ASP Type : G_CRLC_UL_TBF_Config_CNF		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	?	
tFI	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_Activate_DL_TBF_CNF Group : ASP Type : G_CRLC_DL_TBF_Config_CNF Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	?	
tFI	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CLLC_Assign_Req(p_cellId : CellId; p_oldTLLI, p_newTLLI: TLLI; p_CipherAlg : GPRS_CipherAlg; p_CipherKey : B64)		
Group :		
ASP Type : G_CLLC_Assign_REQ		
Derivation Path :		
Comments : The constraint is used to assign the TLLI, the cipher key (Kc) and the cipher algorithm of GERAN LLC emulator module.		
Parameter Name	Parameter Value	Comments
cellId	p_cellId	OCTETSTRING[4]
oldTLLI	p_oldTLLI	
newTLLI	p_newTLLI	
cipherKey	p_CipherKey	BITSTRING[3], 3GPP TS 24.008 section 10.5.5.3
cipherAlgorithm	p_CipherAlg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CLLC_Assign_CNF(p_LLMEId :LLMEId) Group : ASP Type : G_CLLC_Assign_CNF Derivation Path : Comments : The constraint is used to get confirmation of G_CLLC_Assign_REQ		
Parameter Name	Parameter Value	Comments
ILMEId	p_LLMEId	Logical Layer Management Entity Id
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CLLC_CreateLLE_REQ(p_LLMEId: LLMEId ; p_CellId : CellId) Group : ASP Type : G_CLLC_CreateLLE_REQ Derivation Path : Comments : The ASP is used to create an LLE (LLC Entity) in GERAN LLC emulation module.		
Parameter Name	Parameter Value	Comments
ILMEId rLC_MAC_MappingInfo	p_LLMEId p_CellId	Logical Layer Management Entity Id This parameter indicates the RLC/MAC emulation module in the cell, not the cell itself.
Detailed Comments : The RlcMacEntityId needs to be created prior to this by G_CRLC_CreateRLC_MAC_REQ ASP.		

ASP Constraint Declaration		
Constraint Name : ca_G_CLLC_CreateLLE_CNF(p_LLMEId: LLMEId) Group : ASP Type : G_CLLC_CreateLLE_CNF Derivation Path : Comments : The ASP is used to confirm the G_CRLC_CreateRLC_MAC_REQ		
Parameter Name	Parameter Value	Comments
ILMEId	p_LLMEId	The identifier of the cell Logical Layer Management Entity Id
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_CLLC_DeleteLLE_REQ(p_LLMEId: LLMEId) Group : ASP Type : G_CLLC_DeleteLLE_REQ Derivation Path : Comments : The ASP is used to delete an LLE (LLC Entity) in GERAN LLC emulation module.		
Parameter Name	Parameter Value	Comments
ILMEId	p_LLMEId	Logical Layer Management Entity Id
Detailed Comments : The RlcMacEntityId needs to be created prior to this by G_CRLC_CreateRLC_MAC_REQ ASP.		

ASP Constraint Declaration		
Constraint Name : ca_G_CLLC_DeleteLLE_CNF Group : ASP Type : G_CLLC_DeleteLLE_CNF Derivation Path : Comments : The ASP is used to delete an LLE (LLC Entity) in GERAN LLC emulation module.		
Parameter Name	Parameter Value	Comments
ILMEId	?	Logical Layer Management Entity Id
Detailed Comments : The RlcMacEntityId needs to be created prior to this by G_CRLLC_CreateRLC_MAC_REQ ASP.		

ASP Constraint Declaration		
Constraint Name : ca_ActivateTBF_Downlink(p_CellId : CellId; p_PhyChId : PhysicalChId; p_rLC_Mode : BITSTRING; p_USFRate : INTEGER) Group : ASP Type : G_CRLLC_DL_TBF_Config_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 – GPRS; 1 – EGPRS
tFI	tsc_downlinkTFI	
tBF_Mode	'0'B	
channelCoding	1	
rLC_Mode	p_rLC_Mode	0 – acknowledged mode; 1 – unacknowledged mode
timeSlotAllocation	c_TimeSlotAllocation_TN4(p_PhyChId)	Downlink TBF time slot allocation
startingTime	c_G_RFN_Omit	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.
dataBlockRate	p_USFRate	This parameter controls the speed of the DL TBF transferring data blocks by controlling the USF rate: 1----> implementation dependent. TTCN does not specify the USF generating rate; 2----> 10 data blocks per second; 3----> 5 data blocks per second; 4----> 1 data block per second; 5----> 1 data block 2 seconds; 6----> 1 data block 3 seconds; 7----> 1 data block 4 seconds
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : cas_G_RLC_ControlMsg_REQ_Paging(p_CellId : CellId; p_PhyChId:PhysicalChId; p_TFI : B5; p_SP : B1; p_IMSI : HEXSTRING; p_KC_Conf, p_M, p_N, p_PagingMode : INTEGER; p_SplitPGCycle : B8; p_msg : PDU) Group : ASP Type : G_RLC_ControlMsg_REQ Derivation Path : Comments : The constraint is used to transmitt the down link RLC/MAC control message to the UE/MS on PPCH channel.		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	PCCCH 0 --- downlink; 1 --- uplink relative reserved block period supplementary/polling bit The reduced frame number of the first frame on which this message is sent.If the field t2 of rfn is coded as '11111'B lower layer shall ignore this field.
physicalChId	p_PhyChId	
g_LogicChType	tsc_PPCH_LogicalType	
tBF_Direction	0	
tFI	p_TFI	
rRBP	'00'B	
s_P_Bit	p_SP	
rfn	c_G_RFN_Omit	
pagingGroup	o_PacketPagingGroupCalculate(p_IMSI, p_KC_Conf, p_M, p_N, p_SplitPGCycle)	for message other than PACKET PAGING REQUEST this field shall be omitted
pagingMode	p_PagingMode	0 --- normal paging;1--- exteded paging;3 --- paging reorganization.this field is valid only for PACKET PAGING REQUEST control message, for message other than PACKET PAGING REQUEST this field shall be omitted
msg	p_msg	Signalling message or user data to be sent
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_G_Paging_REQ (p_CellId : CellId ; p_PG : INTEGER ; p_msg : PDU)		
Group :		
ASP Type : G_L2_Paging_REQ		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	0 Channel identifier of the right CCCH_GROUP or PCCCH_GROUP PCH INTEGER 0 --- normal paging; 1--- exteded paging; 3 --- paging reorganization paging message to be sent
sAPI	0	
physicalChId	0	
g_LogicChType	2	
pAGING_GROUP	p_PG	
pagingMode	0	
msg	p_msg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : c_G_CL1_ComingFN_CNF Group : ASP Type : G_CL1_ComingFN_CNF Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId physicalChId g_LogicChType subChannel rfn	? ? ? * ?	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3). this field is not applicable and the SS shall ignore it if this field is coded as 15 the reduced 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 specified by "physicalChId"+"G_LogicChType"+"subChannel"
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : c_G_CL1_ComingFN_REQ(p_CellId : CellId ; p_PhysicalChId : PhysicalChId ; p_G_LogicChType : G_LogicChType) Group : ASP Type : G_CL1_ComingFN_REQ Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId physicalChId g_LogicChType subChannel	p_CellId p_PhysicalChId p_G_LogicChType OMIT	Channel identifier Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (0..1); for SDCCH/8 and SACCH/C8 value is (0..7); for SDCCH/4 and SACCH/C4 value is (0..3). this field is not applicable and the SS shall ignore it if this field is coded as 15
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_AT_CmdCnf		
Group :		
ASP Type : AT_CmdCnf		
Derivation Path :		
Comments : The ASP is used get a positive result only for a requested command to the UT (UT →LT).		
Parameter Name	Parameter Value	Comments
result	TRUE IF_PRESENT	Defined for future development
resultString	tsc_AT_ResultOK IF_PRESENT	
sMS_BlockMode	–	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_AT_CmdReq (p_Cmd : IA5String)		
Group :		
ASP Type : AT_CmdReq		
Derivation Path :		
Comments : The ASP is used to request a command to the UT (LT →UT).		
Parameter Name	Parameter Value	Comments
cmd	p_Cmd	Defined for future development
sMS_BlockMode	–	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_DataReq (p_CellId : INTEGER; p_Rb : SS_RB_Identity ; p_Pdu : PDU)		
Group :		
ASP Type : RRC_DataReq		
Derivation Path :		
Comments : The ASP is used to request the transmission of the NAS PDU message using acknowledged operation (NAS → RRC).		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	GERAN only GERAN only
rB_Id	p_Rb	
ch	–	
sapId	–	
cN_Domain	tsc_SS_CS_Domain	
msg	p_Pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_MMI_CmdCnf Group : ASP Type : MMI_CmdCnf Derivation Path : Comments : The ASP is used get the result of a requested MMI command to the UT (UT →LT).		
Parameter Name	Parameter Value	Comments
result	TRUE	
resultString	*	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_MMI_CmdReq (p_Cmd : IA5String) Group : ASP Type : MMI_CmdReq Derivation Path : Comments : The ASP is used to request a MMI command to the UT (LT →UT).		
Parameter Name	Parameter Value	Comments
cmd	p_Cmd	command line
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ca_PS_DataReq (p_CellId : INTEGER; p_Rb : SS_RB_Identity ; p_Pdu : PDU) Group : ASP Type : RRC_DataReq Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
rB_Id	p_Rb	
ch	–	GERAN only
sapId	–	GERAN only
cN_Domain	tsc_SS_PS_Domain	
msg	p_Pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_InitDirectTransfer (p_CellId: INTEGER; p_Rb : SS_RB_Identity; p_Pdu : PDU)		
Group :		
ASP Type : RRC_DataInd		
Derivation Path :		
Comments : The ASP is used to indicate the receipt of the NAS PDU message using acknowledged operation (NAS <- RRC).		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	GERAN only GERAN only
rB_Id	p_Rb	
ch	–	
sapId	–	
cN_Domain	tsc_SS_CS_Domain	
start	?	
msg	p_Pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_PS_InitDirectTransfer (p_CellId: INTEGER; p_Rb :SS_RB_Identity; p_Pdu : PDU)		
Group :		
ASP Type : RRC_DataInd		
Derivation Path :		
Comments : The ASP is used to indicate the receipt of the NAS PDU message using acknowledged operation (NAS <- RRC).		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	GERAN only GERAN only
rB_Id	p_Rb	
ch	–	
sapId	–	
cN_Domain	tsc_SS_PS_Domain	
start	?	
msg	p_Pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_PS_UplinkDirectTransfer (p_CellId: INTEGER; p_Rb :SS_RB_Identity; p_Pdu : PDU)		
Group :		
ASP Type : RRC_DataInd		
Derivation Path :		
Comments : The ASP is used to indicate the receipt of the NAS PDU message using acknowledged operation (NAS <- RRC).		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	GERAN only GERAN only
rB_Id	p_Rb	
ch	–	
sapId	–	
cN_Domain	tsc_SS_PS_Domain	
start	–	
msg	p_Pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_RLC_AM_DataInd(p_CellId: INTEGER; p_SS_RB_Identity: SS_RB_Identity; p_PDU: PDU)		
Group :		
ASP Type : RLC_AM_TestDataInd		
Derivation Path :		
Comments : This constraint is used to receive a data PDU for RB test cases		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
rB_Id	p_SS_RB_Identity	
data	p_PDU	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_StatusInd (p_RB_Id: SS_RB_Identity) Group : ASP Type : RLC_TR_TestDataInd Derivation Path : Comments : This constraint is used to receive a STATUS PDU with the given super fields, and using the given RB Id. Any padding octets present are ignored. Parameters: p_RB_Id: The identifier for the RB to be used for reception of data. This is expected to be one of the following values, depending on the RLC configuration being tested. tsc_RB_AM_7_RLC, tsc_RB_UM_7_RLC, tsc_RB_AM_15_RLC, tsc_RB_UM_15_RLC p_SuperFields: The super fields expected to be included in the STATUS PDU.		
Parameter Name	Parameter Value	Comments
cellId	tsc_CellDedicated	
rB_Id	p_RB_Id	
data	cr_StatusAny	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : car_UplinkDirectTransfer (p_CellId: INTEGER; p_Rb : SS_RB_Identity; p_Pdu : PDU) Group : ASP Type : RRC_DataInd Derivation Path : Comments : The ASP is used to indicate the receipt of the NAS PDU message using acknowledged operation (NAS <- RRC).		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
rB_Id	p_Rb	
ch	–	GERAN only
sapId	–	GERAN only
cN_Domain	tsc_SS_CS_Domain	
start	–	
msg	p_Pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : cas_RLC_AM_DataReq(p_CellId: INTEGER; p_SS_RB_Identity: SS_RB_Identity; p_PDU: PDU) Group : ASP Type : RLC_AM_TestDataReq Derivation Path : Comments : This constraint is used to send a data PDU fro RB test cases.		
Parameter Name	Parameter Value	Comments
cellId	p_CellId	
rB_Id	p_SS_RB_Identity	
data	p_PDU	
Detailed Comments :		

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_2_DCH_UL_Info (p_CellId : INTEGER; p_PhyChId : INTEGER;p_Type : TrChConfigType; p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS ; p_TFCS : TFCS ; p_ActivationTime : SS_ActivationTime) Group : ASP Type : CPHY_TrCH_Config_REQ Derivation Path : Comments :	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd , trchConfigType p_Type , configMessage { activationTime p_ActivationTime, ulconnectedTrCHList { { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo p_DchTFS1 }, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo p_DchTFS5 } }, ulTFCS p_TFCS } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB25_AM_InfoCfg2 (p_CellId : INTEGER; p_RB_Id : INTEGER; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode :c_UL_AM_RLC_HS_Cfg2 }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_HS_Cfg2 }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DL_HSDPSCH_ModifyInfo (p_CellId: INTEGER; p_PhyChId: INTEGER; p_HS_PDSCHInfo: HS_PDSCHInfo ; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_RL_Modify_REQ
Derivation Path	:
Comments	: To Modify down link physical channelHS-PDSCH.
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo hS_PDSCHInfo : p_HS_PDSCHInfo } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_HSDSCH_DL_Info (p_CellId : INTEGER; p_PhyChId : INTEGER; p_Type : TrChConfigType; p_HS_DSCHMacdFlows : HS_DSCHMACdFlows; p_ActivationTime : ActivationTime) Group : ASP Type : CPHY_TrCH_Config_REQ Derivation Path : Comments : For FDD mode only. The configuration is defined in TS 34.123–1 cl. 6.10.2.4.5.1.2	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, trchConfigType p_Type, configMessage { activationTime activationCFN : p_ActivationTime, hsDSCHMacdFlows p_HS_DSCHMacdFlows } }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_UL_DPCH_ModifyInfo_HSENH_NoFollow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_UL_DPCHInfo : UL_DPCH_Info_r5; p_ActivationTime : ActivationTime; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : ASP Type : CPHY_RL_Modify_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo dPCHInfo_r5 : { ul_DPCHInfo p_UL_DPCHInfo, hs_DPCCHInd { cqi_RepetitionFactor p_HSDPA_ConfigType.cqi_RepetitionFactor, ackNackRepetitionFactor p_HSDPA_ConfigType.ackNackRepetitionFactor } }, trchConfigToFollow FALSE } }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RBCfg_AM_Info (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode :cd_UL_AM_RLC_RST_HSENH }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : cd_DL_AM_RLC_RW_PDUsizes_HSENH }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RBReCfg_AM_Info (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage reconfigure : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode :cd_UL_AM_RLC_RST_HSENH }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : cd_DL_AM_RLC_RW_HSENH }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB25_AM_Info_656(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode :c_UL_AM_RLC_HSENH }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_HSENH_656 }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_AM_Info_twrw (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER;p_UL_AM_RLC_Mode:UL_AM_RLC_Mode;p_DL_AM_RLC_Mode:DL_AM_RLC_Mode_r5)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode :p_UL_AM_RLC_Mode }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : p_DL_AM_RLC_Mode }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CPHY_HS_DPCCH_Nack_IND(p_CellId,p_ProcessId:INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_AckNack_IND
Derivation Path	:
Comments	: SS reports the HARQ-ACK information received on HS_DPCCH, each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, hARQ_ACKInfo nack, hARQProcessId p_ProcessId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CPHY_HS_DPCCH_Ack_IND(p_CellId,p_ProcessId:INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_AckNack_IND
Derivation Path	:
Comments	: SS reports the HARQ-ACK information received on HS_DPCCH, each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, hARQ_ACKInfo ack, hARQProcessId p_ProcessId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CPHY_HS_DPCCH_AckNack_CNF(p_CellId:INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_AckNack_CNF
Derivation Path	:
Comments	: To Confirm CPHY_HS_DPCCH_AckNack_REQ
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_CPHY_HS_DPCCH_AckNack_REQ(p_CellId,p_HarqId:INTEGER;p_Ack: AckNackReportReq)
Group	:
ASP Type	: CPHY_HS_DPCCH_AckNack_REQ
Derivation Path	:
Comments	: To request for Start or Stop of reporting Ack/Nack received on the HS-DPCCH for the HARQ process hARQProcessId. At the SS initialisation reporting of Ack/Nack is in "STOP" state
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, ackNackReportReq p_Ack, hARQProcessId p_HarqId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CPHY_HS_DSCH_CRC_Mode_CNF(p_CellId,p_PhChId : INTEGER)
Group	:
ASP Type	: CPHY_HS_DSCH_CRC_Mode_CNF
Derivation Path	:
Comments	: Confirm a previous CPHY_HS_DSCH_CRC_Mode_REQ being successful
Constraint Value	
<pre>{ cellId p_CellId , routingInfo physicalChannelIdentity:p_PhChId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_CPHY_HS_DSCH_CRC_Mode_Err_REQ(p_CellId,p_PhChId : INTEGER; p_MDFId: MAC_d_FlowIdentity)
Group	:
ASP Type	: CPHY_HS_DSCH_CRC_Mode_REQ
Derivation Path	:
Comments	: To set the CRC calculation mode for HS-DSCH. If mode = normal, the SS generates the correct CRC. If mode = erroneous, the SS generates any wrong CRC value which is different from the one it shall be on the specified MACdFlow. As default, when the HS-DSCH first configured or reconfigured the SS enters the normal CRC calculation mode.
Constraint Value	
<pre>{ cellId p_CellId , routingInfo physicalChannelIdentity:p_PhChId, mac_dFlowId p_MDFId, mode erroneous }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_CPHY_HS_DSCH_CRC_Mode_Norml_REQ(p_CellId,p_PhChId : INTEGER; p_MDFId: MAC_d_FlowIdentity)
Group	:
ASP Type	: CPHY_HS_DSCH_CRC_Mode_REQ
Derivation Path	:
Comments	: To set the CRC calculation mode for HS-DSCH. If mode = normal, the SS generates the correct CRC. If mode = erroneous, the SS generates any wrong CRC value which is different from the one it shall be on the specified MACdFlow. As default, when the HS-DSCH first configured or reconfigured the SS enters the normal CRC calculation mode.
Constraint Value	
<pre>{ cellId p_CellId , routingInfo physicalChannelIdentity:p_PhChId, mac_dFlowId p_MDFId, mode normal }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_TrChReconfWithCnf(p_CellId : INTEGER; p_RB_Id: INTEGER; p_PDU: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest confirmationRequested: tsc_Mui, aM_message dL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_CMAC_RestrictCnf(p_CellId: INTEGER; p_PhyChId: INTEGER) Group : ASP Type : CMAC_Restriction_CNF Derivation Path : Comments : For MAC emulator to report that a previous attempt of restricting TFCs have been successful.	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_RestrictReq (p_CellId: INTEGER; p_PhyChId: INTEGER;p_TFC_Restriction : TFC_Restriction)
Group	:
ASP Type	: CMAC_Restriction_REQ
Derivation Path	:
Comments	: To request to configure MAC entity. The field restrictAllowedTFCs is provided to allow the UL and/or DL SS TFCS to be restricted for a specific transport channel. This information only needs to be sent to the MAC layer, since it is the MAC layer's responsibility to determine the set of valid TFCs each TTI.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, restrictAllowedTFCs p_TFC_Restriction }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_ActSetUpdateCmpl(p_CellId: INTEGER; p_RB_Id: INTEGER; p_PDU: UL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, aM_message uL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_MeasurementReport(p_CellId: INTEGER; p_RB_Id: SS_RB_Identity; p_PDU: UL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_IND Derivation Path : Comments : to receive a Measurement Report PDU in AM mode	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, aM_message uL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_URA_Update(p_CellId: INTEGER; p_RB_Id: SS_RB_Identity; p_PDU: UL_CCCH_Message) Group : ASP Type : RLC_TR_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, tM_message uL_CCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_ActSetUpdate(p_CellId : INTEGER; p_RB_Id: INTEGER; p_PDU: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest noConfirmationRequest: NULL, aM_message dL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_PhyChReconf(p_CellId : INTEGER; p_RB_Id : INTEGER; p_PDU: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id , confirmationRequest noConfirmationRequest : NULL, aM_message dL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_RB_Reconfigure(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: DL_DCCH_Message)	
Group :	
ASP Type : RLC_AM_DATA_REQ	
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest noConfirmationRequest : NULL, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_RRC_CellUpdateCnfDCCH (p_CellId: INTEGER; p_RB_Id: INTEGER; p_PDU: DL_DCCH_Message) 	
Group :	
ASP Type : RLC_UM_DATA_REQ	
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, uM_message dL_DCCH_Message : p_PDU, specialLI FALSE }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_SS_stopContinue_RLC_entity (p_CellId: INTEGER; p_RB_Id: INTEGER; p_StopContinue :CrlcConfigReq)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: ASP is used to stop a RLC entity in the SS for a certain RB (e.g. stop RLC RB2 in the SS)
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage p_StopContinue }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_TranportFormatCombCtrlAM (p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: DL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest noConfirmationRequest: NULL, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_4DCH_DL_Info (p_CellId : INTEGER; p_PhyChId : INTEGER; p_Type : TrChConfigType;p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only, used in aknowledged mode RLC testing
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType p_Type, configMessage { activationTime activationCFN : p_ActivationTime, dlconnectedTrCHList {{ trchid tsc_DL_DCH1, dl_TransportChannelType dch, transportChannelInfo c_DCH_81_TFS_DL }}, { trchid tsc_DL_DCH2, dl_TransportChannelType dch, transportChannelInfo c_DCH_103_TFS }, { trchid tsc_DL_DCH3, dl_TransportChannelType dch, transportChannelInfo c_DCH_60_TFS }, { trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL }}, dlTFCS c_TFCS_Cmpl0_1_11_12_13_23_Tx (c_PowerOffsetInfoBelow64k) } } </pre>	
Detailed Comments	: For DCH1 transport channel the following parameters are fixed by core spec.(34.123 cl. 7.2): TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 155

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_4DCH_UL_Info(p_CellId : INTEGER; p_PhyChId : INTEGER; p_Type : TrChConfigType; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only, used in acknowledged mode RLC testing
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType p_Type, configMessage { activationTime activationCFN : p_ActivationTime, ulconnectedTrCHList {{ trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo c_DCH_81_TFS }}, { trchid tsc_UL_DCH2, ul_TransportChannelType dch, transportChannelInfo c_DCH_103_TFS }, { trchid tsc_UL_DCH3, ul_TransportChannelType dch, transportChannelInfo c_DCH_60_TFS }, { trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_UL } }, ulTFCS c_TFCS_Cmpl0_1_11_12_13_23_Rx } </pre>	
Detailed Comments	<p>: For DCH1 transport channel the following parameters are fixed by core spec.(34.123 cl. 7.2):</p> <p>TTI = 40 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 155</p>

ASN.1 ASP Constraint Declaration	
Constraint Name : car_PhyChReconfCmpl(p_CellId: INTEGER; p_RB_Id: INTEGER; p_PDU: UL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, aM_message uL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_RRC_CellUpdate(p_CellId: INTEGER; p_RB : SS_RB_Identity ; p_PDU: UL_CCCH_Message) Group : ASP Type : RLC_TR_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB , tM_message uL_CCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_PhyChReconfWithCnf (p_CellId : INTEGER; p_RB_Id : INTEGER; p_Mui : Mui; p_PDU: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id , confirmationRequest confirmationRequested: p_Mui, aM_message dL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_RB_ReleaseWithCnf (p_CellId: INTEGER; p_RB_Id: INTEGER; p_Mui : Mui; p_Pdu: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest confirmationRequested: p_Mui, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_CellChangeOrderFromUTRAN(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: DL_DCCH_Message)	
Group :	
ASP Type :	RLC_AM_DATA_REQ
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest noConfirmationRequest : NULL, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_AichInfo(p_CellId: INTEGER; p_PhyChId: INTEGER; p_AICH_Info: AICH_Info; p_TxPower: AICH_PowerOffset)	
Group :	
ASP Type :	CPHY_RL_Setup_REQ
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo aICHInfo : { aichinfo p_AICH_Info, dl_TxPower p_TxPower } } }</pre>	
Detailed Comments : The following are fixed in this constraint (34.108): transmission diversity is off, spreading factor is set to 256, AICH timing scheme is 0	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_BCH_InfoActNow (p_CellId : INTEGER) Group : ASP Type : CPHY_TrCH_Config_REQ Derivation Path : Comments : For FDD mode only	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: tsc_P_CCPCH, ratType fdd, trchConfigType nonDch: NULL, configMessage { activationTime activateNow : NULL, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList {{ trchid tsc_BCH1, dl_TransportChannelType bch, transportChannelInfo { tti tti20 : {{tb_Size 246, numberOfTbSizeList {one : NULL}, logicalChannelList configured : NULL}}, semistaticTF_Information { channelCodingType convolutional :half, rateMatchingAttribute 1, crc_Size crc16 } } }}, dlTFCS c_TFCS_Cmpl0 (c_PowerOffsetInfoBelow64k) } } </pre>	
Detailed Comments : For BCH transport channel the following parameters are fixed by core spec.(25.212 and 25.302): TTI = 20 ms; TransportBlocks = 1; transport block size = 246 bits; coding = convolutional; coding rate = 1/2; CRCsize = 16; RateMatching = 1 (this parameter is not relevant to BCH, value can be any number between 1 to hiRM)	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_CellCfgCnf(p_CellId : INTEGER) Group : ASP Type : CPHY_Cell_Config_CNF Derivation Path : Comments :	
Constraint Value	
<pre> { cellId p_CellId } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CellCfgReq(p_CellId : INTEGER; p_Tcell: INTEGER; p_FreqInfo : FrequencyInfo; p_PriScmCode : INTEGER; p_DL_TxAttenLevel: INTEGER; p_SfnOffset : INTEGER; p_totalCellPower : CellTxPowerLevel)
Group	:
ASP Type	: CPHY_Cell_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, tcell p_Tcell, sfnOffset p_SfnOffset, frequencyInfo p_FreqInfo, primaryScramblingCode_SS p_PriScmCode, cellTxPowerLevel p_totalCellPower, dLTxAttenuationLevel p_DL_TxAttenLevel }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CellTxPowerModiCnf(p_CellId : INTEGER)
Group	:
ASP Type	: CPHY_Cell_TxPower_Modify_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CellTxPowerModiReq(p_CellId : INTEGER; p_DL_TxAttenLevel: INTEGER)
Group	:
ASP Type	: CPHY_Cell_TxPower_Modify_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, dLTxAttenuationLevel p_DL_TxAttenLevel }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_CfgCnf (p_CellId: INTEGER; p_PhyChId : INTEGER)
Group	:
ASP Type	: CMAC_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_CfgInfo(p_CellId: INTEGER; p_PhyChId: INTEGER; p_UEInfo: UE_Info; p_TrCHInfo: TrCHInfo; p_TrCH_LogCHMapping: TrCH_LogCHMappingList1)
Group	:
ASP Type	: CMAC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, configMessage setup: { activationTime activateNow : NULL, uE_Info p_UEInfo, trCHInfo p_TrCHInfo, trCH_LogCHMapping p_TrCH_LogCHMapping } }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_CipherActCnf(p_CellId: INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CMAC_Ciphering_Activate_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_DL_CipherActReq (p_CellId: INTEGER; p_PhyChId: INTEGER; p_CipherMode: CipheringModeCommand; p_ActTimeDPCH: INTEGER;p_IncrDcr : Increment_Mode)
Group	:
ASP Type	: CMAC_Ciphering_Activate_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, cn_DomainIdentity cs_domain, --the domain is hard coded as no TM RAB in PS domain cipheringModelInfo { cipheringModeCommand p_CipherMode, activationTimeForDPCH p_ActTimeDPCH, rb_DL_CiphActivationTimeInfo OMIT }, incHFN p_IncrDcr } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_PagingCfgCnf(p_CellId: INTEGER; p_PhysicalChannelIdentity: PhysicalChannelIdentity)
Group	:
ASP Type	: CMAC_PAGING_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhysicalChannelIdentity } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_CMAC_PagingCfgReq(p_CellId: INTEGER; p_PhysicalChannelIdentity: PhysicalChannelIdentity; p_RatType: RatType; p_Pdu: CmacPagingConfigReq) Group : ASP Type : CMAC_PAGING_Config_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhysicalChannelIdentity, ratType p_RatType, configMessage p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_CMAC_ReconfigInfo(p_CellId: INTEGER; p_PhyChId: INTEGER; p_UEInfo: UE_Info; p_TrCHInfo: TrCHInfo; p_TrCH_LogCHMapping: TrCH_LogCHMappingList1; p_ActivationTime : ActivationTime) Group : ASP Type : CMAC_Config_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, configMessage reconfigure: { activationTime activationCFN : p_ActivationTime, uE_Info p_UEInfo, trCHInfo p_TrCHInfo, trCH_LogCHMapping p_TrCH_LogCHMapping } }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_ReconfigInfoActNow (p_CellId: INTEGER; p_PhyChId: INTEGER; p_UEInfo: UE_Info; p_TrCHInfo: TrCHInfo; p_TrCH_LogCHMapping: TrCH_LogCHMappingList1)
Group	:
ASP Type	: CMAC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, configMessage reconfigure: { activationTime activateNow : NULL, uE_Info p_UEInfo, trCHInfo p_TrCHInfo, trCH_LogCHMapping p_TrCH_LogCHMapping } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMAC_SecurityModeCfgCnf (p_CellId: INTEGER)
Group	:
ASP Type	: CMAC_SecurityMode_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMACE_SecurityModeCfgReq (p_CellId: INTEGER; p_Domain : CN_DomainIdentity; p_Hfn: HyperFrameNumber; p_KC: KeyCiphering; p_IK: IntegrityKey; p_GSM_ck : GSM_CipheringKey)
Group	:
ASP Type	: CMACE_SecurityMode_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, macCipheringInfo { cn_DomainIdentity p_Domain , startValue p_Hfn, cipheringKey p_KC, integrityKey p_IK, gsmCipheringKey p_GSM_ck } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMACE_UL_CipherActReq (p_CellId: INTEGER; p_PhyChId: INTEGER; p_CipherMode: CipheringModeCommand; p_ActTimeDPCH: INTEGER; p_IncrDcr : Increment_Mode)
Group	:
ASP Type	: CMACE_Ciphering_Activate_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, cn_DomainIdentity cs_domain, -- domain hard coded as no TM RAB in PS Domain cipheringModelInfo { cipheringModeCommand p_CipherMode, activationTimeForDPCH p_ActTimeDPCH, rb_DL_CiphActivationTimeInfo OMIT }, incHFN p_IncrDcr } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CPHY_Cell_Release_CNF(p_CellId: INTEGER)
Group	:
ASP Type	: CPHY_Cell_Release_CNF
Derivation Path	:
Comments	: 1. This Primitive with "Soft_Reset" flag ON gives a common known starting point/state of SS for a test case. The SS performs the following whenever it receives this primitive with "Soft_Reset" flag ON:Releases all configured Channels and cells (if any) irrespective of Cell ID list IE. 2. Releases the associated Memory Buffers (if any). 3. Cancels all active timers (if any) With "Soft_Reset" flag OFF: 1. Releases cells listed in IE Cell_ID_List and associated configured Channels (if any) 2. Releases the Memory Buffers(if any) associated with Cells listed in IE Cell_ID_List 3. Cancels all active timers (if any) associated with Cells listed in IE Cell_ID_List.
Constraint Value	
{ soft_Reset FALSE, cell_ID_List { p_CellId } }	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CPHY_Cell_Release_REQ(p_CellId: INTEGER)
Group	:
ASP Type	: CPHY_Cell_Release_REQ
Derivation Path	:
Comments	: 1. This Primitive with "Soft_Reset" flag ON gives a common known starting point/state of SS for a test case. The SS performs the following whenever it receives this primitive with "Soft_Reset" flag ON:Releases all configured Channels and cells (if any) irrespective of Cell ID list IE. 2. Releases the associated Memory Buffers (if any). 3. Cancels all active timers (if any) With "Soft_Reset" flag OFF: 1. Releases cells listed in IE Cell_ID_List and associated configured Channels (if any) 2. Releases the Memory Buffers(if any) associated with Cells listed in IE Cell_ID_List 3. Cancels all active timers (if any) associated with Cells listed in IE Cell_ID_List.
Constraint Value	
{ soft_Reset FALSE, cell_ID_List { p_CellId } }	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_CfgCnf(p_CellId: INTEGER; p_RB_Id: INTEGER)
Group	:
ASP Type	: CRLC_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_CipherActCnf(p_CellId: INTEGER)
Group	:
ASP Type	: CRLC_Ciphering_Activate_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_DL_CipherActReq(p_CellId: INTEGER; p_CN_Domain : CN_DomainIdentity; p_RB_Id : INTEGER; p_CipherMode: CipheringModeCommand; p_N: RLC_SequenceNumber ;p_IncMode : RLC_IncMode)
Group	:
ASP Type	: CRLC_Ciphering_Activate_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, ratType fdd, cn_DomainIdentity p_CN_Domain, ciphActivationInfo cipheringModelInfo : { cipheringModeCommand p_CipherMode, activationTimeForDPCH OMIT, rb_DL_CiphActivationTimeInfo { c_RB_ActTimeInfo(p_RB_Id, p_N) } }, incHFN p_IncMode } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_DL_IntegrityActivateReq(p_CellId: INTEGER; p_Domain : CN_DomainIdentity;p_IntegrityProtectionModelInfo : IntegrityProtectionModelInfo)
Group	:
ASP Type	: CRLC_Integrity_Activate_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, cn_DomainIdentity p_Domain, integrityActivationInfo integrityProtectionModelInfo : p_IntegrityProtectionModelInfo } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_IntegrityActivateCnf(p_CellId: INTEGER)
Group	:
ASP Type	: CRLC_Integrity_Activate_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_RB_RelReq (p_CellId: INTEGER; p_RB_Id: INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage release : NULL }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_SecurityModeCfgCnf(p_CellId: INTEGER)
Group	:
ASP Type	: CRLC_SecurityMode_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_SecurityModeCfgReq(p_CellId: INTEGER; p_Domain : CN_DomainIdentity; p_Hfn: HyperFrameNumber; p_KC: KeyCiphering; p_Ik: IntegrityKey; p_GSM_ck: GSM_CipheringKey)
Group	:
ASP Type	: CRLC_SecurityMode_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, rlcSecurityInfo { cn_DomainIdentity p_Domain , startValue p_Hfn, cipheringKey p_KC, integrityKey p_Ik, gsmCipheringKey p_GSM_ck } }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_SetRRC_MSN_CNF (p_CellID :INTEGER ; p_RBID : INTEGER)
Group	:
ASP Type	: CRLC_SetRRC_MessageSN_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellID, routingInfo rB_Identity : p_RBID }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_UL_CipherActReq (p_CellId: INTEGER; p_CN_Domain : CN_DomainIdentity; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList;p_IncMode : RLC_IncMode)
Group	:
ASP Type	: CRLC_Ciphering_Activate_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, cn_DomainIdentity p_CN_Domain, ciphActivationInfo rb_UL_CipheringActivationTimeInfo : p_RB_ActivationTimeInfoList, incHFN p_IncMode }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CRLC_UL_IntegrityActivateReq (p_CellId: INTEGER ; p_Domain : CN_DomainIdentity; p_IntegrityProtActivationInfo : IntegrityProtActivationInfoList)
Group	:
ASP Type	: CRLC_Integrity_Activate_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, cn_DomainIdentity p_Domain , integrityActivationInfo ul_IntegProtActivationInfo : p_IntegrityProtActivationInfo }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DCH_148_TTI_10_DL_Info (p_CellId : INTEGER; p_PhyChId : INTEGER; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.1.3
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType c_TrChConfigTypeDCH_NoSHO, configMessage { activationTime activationCFN : p_ActivationTime, dlconnectedTrCHList {{ trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TTI_10_TFS }}, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } } </pre>	
Detailed Comments	: For DCH1 transport channel the following parameters are fixed by core spe: TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU SIZE = 144 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 192

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DCH_148_TTI_10_DL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.1.3
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType c_TrChConfigTypeDCH_NoSHO, configMessage { activationTime activateNow : NULL, dlconnectedTrCHList {{ trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TTI_10_TFS }}, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } } </pre>	
Detailed Comments	<p>: For DCH1 transport channel the following parameters are fixed by core spec.</p> <p>TTI = 10 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>rlc_Size = RLC PDU SIZE = 144 bits.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 192</p>

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DCH_148_TTI_10_UL_Info (p_CellId : INTEGER; p_PhyChId : INTEGER; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.1.3
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType c_TrChConfigTypeDCH_NoSHO, configMessage { activationTime activationCFN : p_ActivationTime, ulconnectedTrCHList {{ trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TTI_10_TFS }}, ulTFCS c_TFCS_Cmpl0_1_Rx } } </pre>	
Detailed Comments	<p>: For DCH1 transport channel the following parameters are fixed by core spec.</p> <p>TTI = 10 ms;</p> <p>two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148.</p> <p>rlc_Size = RLC PDU Size = 144 bits.</p> <p>coding = convolutional;</p> <p>coding rate = 1/3;</p> <p>CRCsize = 16;</p> <p>RateMatching = 192</p>

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DCH_148_TTI_10_UL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.1.3
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType c_TrChConfigTypeDCH_NoSHO, configMessage { activationTime activateNow : NULL, ulconnectedTrCHList {{ trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo c_DCH_148_TTI_10_TFS }}, ulTFCS c_TFCS_Cmpl0_1_Rx } } </pre>	
Detailed Comments	: For DCH1 transport channel the following parameters are fixed by core spec.: TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU Size = 144 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 192

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DL_CRLC_SetRRC_MSN_REQ (p_CellID :INTEGER ; p_RBID : INTEGER; p_DL_MSN : RRC_SequenceNumber)
Group	:
ASP Type	: CRLC_SetRRC_MessageSN_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellID, routingInfo rB_Identity : p_RBID, count_I_LSB_UL OMIT, count_I_LSB_DL p_DL_MSN } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DL_DPCH_Info(p_CellId: INTEGER; p_PhyChId: INTEGER; p_DL_DPCHInfo: DL_DPCHInfo)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: To setup down link physical channel DPCH.
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo dPCHInfo : { dl_DPCHInfo p_DL_DPCHInfo } } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DL_DPCH_ModifyInfo(p_CellId: INTEGER; p_PhyChId: INTEGER; p_DL_DPCHInfo: DL_DPCHInfo; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_RL_Modify_REQ
Derivation Path	:
Comments	: To modify down link physical channel DPCH.
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo dPCHInfo : { dl_DPCHInfo p_DL_DPCHInfo } } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_OutOfSyncInd (p_PhysicalChannelIdentity : PhysicalChannelIdentity)
Group	:
ASP Type	: CPHY_Out_of_Sync_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId ?, routingInfo physicalChannelIdentity: p_PhysicalChannelIdentity }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_pCCPCH_Info(p_CellId: INTEGER; p_TxPower : DL_TxPower)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: For FDD mode only
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: tsc_P_CCPCH, ratType fdd, setupMessage { physicalChannelInfo primaryCCPCHInfo : { sttd_Indicator FALSE, dl_TxPower p_TxPower } } }</pre>	
Detailed Comments : PhysycalChannelIdentity for p-CCPCH is fixed as tsc_pCCPCH;	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_PCH_2_FACH_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER) Group : ASP Type : CPHY_TrCH_Config_REQ Derivation Path : Comments : For FDD mode only (PS)	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType nonDch: NULL, configMessage { activationTime activateNow : NULL, ulconnectedTrCHList OMIT, ulTFCS OMIT, dlconnectedTrCHList { { trchid tsc_PCH1, dl_TransportChannelType pch, transportChannelInfo c_PCH_TFS}, { trchid tsc_FACH1, dl_TransportChannelType fach, transportChannelInfo c_FACH_TFS}, { trchid tsc_FACH2, dl_TransportChannelType fach, transportChannelInfo c_FACH_TFS_PS} }, dlTFCS c_TFCS_CmplFACH_Tx (c_PowerOffsetInfoBelow64k) } } </pre>	
Detailed Comments : For PCH transport channel the following parameters are fixed by core spec.(34.108 cl. 6.10.2.4.3): TTI = 10 ms; two transport formats: TransportBlocks = 0, TB size = 240 bits; and TransportBlocks = 1, TB size = 240 bits; coding = convolutional; coding rate = 1/2; CRCsize = 16; RateMatching = 210 For FACH1 transport channel the following parameters are fixed by core spec.(34.108 cl. 6.10.2.4.3.2): TTI = 10 ms; two transport formats: TransportBlocks = 0, TB size = 360 bits; TransportBlocks = 1, TB size = 360 bits; coding = turbo; CRCsize = 16; RateMatching = 110 For FACH2 transport channel the following parameters are fixed by core spec.(34.108 cl. 6.10.2.4.3): TTI = 10 ms; three transport formats: TransportBlocks = 0, TB size = 168 bits; TransportBlocks = 1, TB size = 168 bits;and TransportBlocks = 2, TB size = 168 bits coding = convolutional; coding rate = 1/2; CRCsize = 16; RateMatching = 210	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_pCPICH_Info(p_CellId: INTEGER; p_TxPower: DL_TxPower_PCPICH)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: For FDD mode only
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: tsc_P_CPICH, ratType fdd, setupMessage { physicalChannelInfo primaryCPICHInfo:{ dl_TxPower_PCPICH p_TxPower, txdiversityIndicator FALSE } } } </pre>	
Detailed Comments : PhysycalChannelIdentity for p-CPICH is fixed as tsc_pCPICH;	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_PHY_RelCnf (p_CellId : INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Release_CNF
Derivation Path	:
Comments	: To confirm to release tthe Radio Link
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_PHY_RelReqDCH_NoSHO (p_CellId : INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Release_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, trchConfigType dch : normal } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_PHY_RelReqNonDch (p_CellId : INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Release_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, trchConfigType nonDch: NULL }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_PICH_Info(p_CellId: INTEGER; p_PICH_Info: PICH_Info; p_TxPower : PICH_PowerOffset;p_SCCPCH_Ass: INTEGER)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: For FDD mode only
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : tsc_PICH1, ratType fdd, setupMessage { physicalChannelInfo pICHInfo : { pichinfo p_PICH_Info, dl_TxPower p_TxPower, sccpchId_associated p_SCCPCH_Ass } } }</pre>	
Detailed Comments	: Value of PI per frame is fixed to 18 (34.108) Value of sndScramCode can be 2 (34.108)

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_PRACH_Info(p_CellId: INTEGER; p_PhyChId: INTEGER; p_Signatures: AvailableSignatures; p_PreScramCodeWord: PreambleScramblingCodeWordNumber; p_PuncLimit: PuncturingLimit; p_SF_PRACH: SF_PRACH; p_SubChNum: AvailableSubChannelNumbers) Group : ASP Type : CPHY_RL_Setup_REQ Derivation Path : Comments :	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd , setupMessage { physicalChannelInfo pRACHInfo :{ fdd_tdd fdd : { preambleSignature p_Signatures, spreadingFactorForDataPart p_SF_PRACH, preambleScramblingCode p_PreScramCodeWord, puncturingLimit p_PuncLimit, accessSlot p_SubChNum } } } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_pSCH_Info(p_CellId: INTEGER; p_TxPower : DL_TxPower) Group : ASP Type : CPHY_RL_Setup_REQ Derivation Path : Comments : For FDD mode only	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: tsc_P_SCH, ratType fdd, setupMessage { physicalChannelInfo primarySCHInfo : { tstdIndicator FALSE, dl_TxPower p_TxPower } } } </pre>	
Detailed Comments : PhysycalChannelIdentity for p-SCH is fixed as tsc_pSCH;	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_AM_Info_RAB(p_CellId: INTEGER; p_RB_Id: INTEGER;p_TimerPollProhbt :TimerPollProhibit; p_Timer_poll: TimerPoll; p_PollSDU: Poll_SDU; p_PollWindw: PollWindow; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_ul_RLC_Mode dl_AM_RLC_Mode :cb_DL_AM_RLC, sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode : cb_UL_AM_RLC } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_AM_Info_SRB(p_CellId: INTEGER; p_RB_Id: INTEGER;p_TimerPollProhbt :TimerPollProhibit; p_Timer_poll: TimerPoll; p_PollSDU: Poll_SDU; p_PollWindw: PollWindow; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_ul_RLC_Mode dl_AM_RLC_Mode :cd_DL_AM_RLC_SRB, sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode : cd_UL_AM_RLC_SRB } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_BCCH_Info(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize 246, dl_RLCModelInfo ul_TM_RLC_Mode :{ segmentationIndication FALSE } } }, rB_LogCH_Mapping p_LogChMapping } </pre>	
Detailed Comments : dl_PayloadSize = TB_Size	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_PCCH_Info(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize 240, dl_RLCModelInfo ul_TM_RLC_Mode :{ segmentationIndication FALSE } } }, rB_LogCH_Mapping p_LogChMapping } </pre>	
Detailed Comments : dl_PayloadSize = TB_Size	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_TM_DL_InfoNoSeg(p_CellId: INTEGER; p_RB_Id: INTEGER; p_PayloadSize: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayloadSize, dl_RLCModelInfo ul_TM_RLC_Mode :{ segmentationIndication FALSE } } }, rB_LogCH_Mapping p_LogChMapping } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_TM_Info(p_CellId: INTEGER; p_RB_Id: INTEGER; p_PayloadSize: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_ul_RLC_Mode dl_TM_RLC_Mode :{ segmentationIndication FALSE }, sS_dl_RLC_Mode { dl_PayloadSize p_PayloadSize, dl_RLCModelInfo ul_TM_RLC_Mode :{ segmentationIndication FALSE } } }, rB_LogCH_Mapping p_LogChMapping } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_UM_DL_Info(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize 152, dl_RLCModeInfo ul_UM_RLC_Mode : { transmissionRLC_Discard timerBasedNoExplicit : dt100 } } }, rB_LogCH_Mapping p_LogChMapping } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_UM_Info(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup UM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_ul_RLC_Mode dl_UM_RLC_Mode : NULL, sS_dl_RLC_Mode{ dl_PayloadSize 136, dl_RLCModeInfo ul_UM_RLC_Mode : { transmissionRLC_Discard timerBasedNoExplicit : dt100 } } }, rB_LogCH_Mapping p_LogChMapping } </pre>	
Detailed Comments	: dl_PayloadSize = TB_Size – 12 = 136

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_UM_ReconfInfo (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup UM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage reconfigure : { sS_rlc_Info { sS_ul_RLC_Mode dl_UM_RLC_Mode :NULL, sS_dl_RLC_Mode{ dl_PayloadSize 136, dl_RLCModelInfo ul_UM_RLC_Mode : { transmissionRLC_Discard timerBasedNoExplicit : dt100 } } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments : dl_PayloadSize = TB_Size – 12 = 136	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RL_ModifyCnf(p_CellId : INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CPHY_RL_Modify_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RL_RelCnf (p_CellId : INTEGER; p_PhyCH : PhysicalChannelIdentity)
Group	:
ASP Type	: CPHY_RL_Release_CNF
Derivation Path	:
Comments	: To confirm that a specified physical channel has been released
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyCH }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RL_RelReq(p_CellId : INTEGER; p_PhyCH : PhysicalChannelIdentity)
Group	:
ASP Type	: CPHY_RL_Release_REQ
Derivation Path	:
Comments	: To release the specified physical channel.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyCH }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RL_SetupCnf(p_CellId : INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CPHY_RL_Setup_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_sCCPCH_Info (p_CellId: INTEGER; p_PhyChId: INTEGER; p_SndScramCode : INTEGER; p_ChannelizationCode: SF256_AndCodeNumber; p_SlotFormat: SCCPCHSlotFormat; p_TxPower : DL_TxPower; p_Timing: INTEGER)	
Group :	
ASP Type :	CPHY_RL_Setup_REQ
Derivation Path :	
Comments :	For FDD mode only,
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo secondaryCCPCHInfo : { scramblingCode p_SndScramCode, dl_ChannelizationCode p_ChannelizationCode, sCCPCHSlotFormat p_SlotFormat, timingOffset p_Timing, positionFixedOrFlexible flexible, sttd_Indicator FALSE, dl_TxPower p_TxPower, powerOffsetOfTFCl_PO1 tsc_sCCPCH_PowerOffsetTFCl, powerOffsetOfPILOT_PO3 tsc_sCCPCH_PowerOffsetPILOT } } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_SchedulLater(p_CellId: INTEGER;p_REP : INTEGER; p_POS : INTEGER; p_Timing : BCCH_ModificationTime)	
Group :	
ASP Type :	CMAC_SYSINFO_Config_REQ
Derivation Path :	
Comments :	scheduling information for system information change at the frame = p_Timing.
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity : tsc_RB_BCCH, ratType fdd, configMessage { sg_REP p_REP, sg_POS p_POS, bcch_ModificationTime p_Timing } } </pre>	
Detailed Comments : ?? for MIB	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_SchedulNow(p_CellId: INTEGER; p_REP : INTEGER; p_POS : INTEGER)
Group	:
ASP Type	: CMAC_SYSINFO_Config_REQ
Derivation Path	:
Comments	: scheduling information for immediately change
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity : tsc_RB_BCCH, ratType fdd, configMessage { sg_REP p_REP, sg_POS p_POS, bcch_ModificationTime OMIT } } </pre>	
Detailed Comments	: ?? for MIB

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_sSCH_Info(p_CellId: INTEGER; p_TxPower : DL_TxPower)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: For FDD mode only
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: tsc_S_SCH, ratType fdd, setupMessage { physicalChannelInfo secondarySCHInfo : { tstdIndicator FALSE, dl_TxPower p_TxPower } } } </pre>	
Detailed Comments	: PhysycalChannelIdentity for s–SCH is fixed as tsc_sSCH;

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_SyncInd (p_PhysicalChannelIdentity : PhysicalChannelIdentity)
Group	:
ASP Type	: CPHY_Sync_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId ?, routingInfo physicalChannelIdentity: p_PhysicalChannelIdentity }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_SysInfoCfgCnf(p_CellId: INTEGER; p_RB_Identity: SS_RB_Identity)
Group	:
ASP Type	: CMAC_SYSINFO_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB_Identity }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_TR_DataReq(p_CellId : INTEGER; p_RB : SS_RB_Identity ; p_Message : BCCH_BCH_Message)
Group	:
ASP Type	: RLC_TR_DATA_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB , tM_message bCCH_BCH_Message : p_Message }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_TrChCfgCnf(p_CellId: INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Config_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_TrChCfgInfo(p_CellId: INTEGER; p_PhyChId: INTEGER; p_Type : TrChConfigType;p_TrChConfig: CphyTrchConfigReq)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType p_Type, configMessage p_TrChConfig }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_UL_DPCH_Info(p_CellId: INTEGER; p_PhyChId: INTEGER; p_UL_DPCHInfo: UL_DPCH_Info)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: To setup uplink physical channel DPCH.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo dPCHInfo : { ul_DPCHInfo p_UL_DPCHInfo } } }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_UL_DPCH_ModifyInfo(p_CellId: INTEGER; p_PhyChId: INTEGER; p_UL_DPCHInfo: UL_DPCH_Info; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_RL_Modify_REQ
Derivation Path	:
Comments	: To setup uplink physical channel DPDCH.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo dPCHInfo : { ul_DPCHInfo p_UL_DPCHInfo } } }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cab_RACH_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType nonDch: NULL, configMessage { activationTime activateNow : NULL, ulconnectedTrCHList {{ trchid tsc_RACH1, ul_TransportChannelType rach, transportChannelInfo c_RACH_TFS }}, ulTFCS c_TFCS_Cmpl0_1_Rx, dlconnectedTrCHList OMIT, dlTFCS OMIT } }</pre>	
Detailed Comments	: For RACH transport channel the following parameters are fixed by core spec.(34.108 cl. 6.10.2.4.4): TTI = 20 ms; two transport format: TransportBlocks = 1, TB size = 168 bits and TransportBlocks = 1, TB size = 360 bits; coding = convolutional; coding rate = 1/2; CRCsize = 16; RateMatching = 1

ASN.1 ASP Constraint Declaration	
Constraint Name	: cad_RB_UM_ReconfInfo(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	: ca_RB_UM_ReconfInfo.
Comments	: Used to setup UM RLC entity for 120 RLC size
Constraint Value	
REPLACE configMessage.reconfigure.sS_rlc_Info.sS_dl_RLC_Mode.dl_PayloadSize BY 120	
Detailed Comments	: dl_PayloadSize = TB_Size – 12 = 136 – 16 (U–RNTI –C–RNTI = 32–16 =16) ==>120

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_AM_DataCnf(p_CellId: INTEGER; p_RB : INTEGER)
Group	:
ASP Type	: RLC_AM_DATA_CNF
Derivation Path	:
Comments	:
Constraint Value	
{ cellId p_CellId, routingInfo rB_Identity : p_RB , mui ? }	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_AM_DataMuiCnf(p_CellId: INTEGER; p_RB : INTEGER; p_Mui : Mui)
Group	:
ASP Type	: RLC_AM_DATA_CNF
Derivation Path	:
Comments	:
Constraint Value	
{ cellId p_CellId, routingInfo rB_Identity : p_RB , mui p_Mui }	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CRLC_IntegrityFail
Group	:
ASP Type	: CRLC_Integrity_Failure_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId ?, routingInfo ?, failureCause codeNotMatched }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CRLC_RRC_MessageSN_CNF(p_CellId, p_RBID : INTEGER)
Group	:
ASP Type	: CRLC_RRC_MessageSN_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RBID, count_I_MSB_UL ?, count_I_LSB_UL ?, count_I_MSB_DL ?, count_I_LSB_DL ? }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_GetFrameNum (p_CellId: INTEGER; p_PhysicalChannelIdentity: PhysicalChannelIdentity)
Group	:
ASP Type	: CPHY_Frame_Number_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhysicalChannelIdentity, frameNumber ? }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_GetRLC_SeqNum(p_CellId: INTEGER; p_RB_Id: INTEGER)
Group	:
ASP Type	: CRLC_SequenceNumber_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, count_C_MSB_UL ?, count_C_LSB_UL ?, count_C_MSB_DL ?, count_C_LSB_DL ? }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_IniCnf
Group	:
ASP Type	: CPHY_Ini_CNF
Derivation Path	:
Comments	: Confirm the test initialisation
Constraint Value	
<pre>{ confirmation NULL }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_MeasRepAM (p_CellId : INTEGER; p_RB : INTEGER; p_Pdu: UL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB , integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : car_MeasRepUM(p_CellId : INTEGER; p_RB : INTEGER ; p_Pdu: UL_DCCH_Message) Group : ASP Type : RLC_UM_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB , integrityResult ?, uM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_RB_ReconfCmpl(p_CellId: INTEGER; p_RouteInfo : INTEGER; p_PDU: UL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RouteInfo, integrityResult ?, aM_message uL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_RB_RelCmpl(p_CellId: INTEGER; p_RB_Id: INTEGER; p_PDU: UL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, aM_message uL_DCCH_Message : p_PDU }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_RB_SetUpCmpl(p_CellId : INTEGER; p_RB :INTEGER ; p_Pdu: UL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_IND Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB , integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_ResumeRB(p_CellId: INTEGER; p_RB_Id: INTEGER)
Group	:
ASP Type	: CRLC_Resume_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_RRC_ConnRelCmpl(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: UL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_RRC_ConnRelCmplUM(p_CellId: INTEGER; p_RB_Id: INTEGER ; p_Pdu:UL_DCCH_Message)
Group	:
ASP Type	: RLC_UM_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, uM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_RRC_ConnReq(p_CellId: INTEGER; p_RB_Id: SS_RB_Identity; p_Pdu: UL_CCCH_Message)
Group	:
ASP Type	: RLC_TR_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, tM_message uL_CCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_RRC_ConnSetupCmpl(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: UL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_RRC_SecModeCmpl(p_CellId: INTEGER; p_RB : INTEGER ; p_Pdu: UL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_IND
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB , integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : car_RRC_SecModeFail(p_CellId: INTEGER; p_RB : INTEGER; p_Pdu: UL_DCCH_Message)	
Group :	
ASP Type : RLC_AM_DATA_IND	
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB , integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_RRC_Status(p_CellId: INTEGER; p_RBId :INTEGER; p_Pdu: UL_DCCH_Message)	
Group :	
ASP Type : RLC_AM_DATA_IND	
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RBId, integrityResult ?, aM_message uL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_SuspendRB (p_CellId: INTEGER; p_RB_Id: INTEGER)	
Group :	
ASP Type : CRLC_Suspend_CNF	
Derivation Path :	
Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, vt ? }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_CRLC_RRC_MessageSN_REQ(p_CellId, p_RBID : INTEGER)
Group	:
ASP Type	: CRLC_RRC_MessageSN_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RBID }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_GetFrameNum (p_CellId: INTEGER; p_PhysicalChannelIdentity: PhysicalChannelIdentity)
Group	:
ASP Type	: CPHY_Frame_Number_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhysicalChannelIdentity }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_GetRLC_SeqNum(p_CellId: INTEGER; p_RB_Id: INTEGER)
Group	:
ASP Type	: CRLC_SequenceNumber_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_InitReqDef
Group	:
ASP Type	: CPHY_Ini_REQ
Derivation Path	:
Comments	: Request to initialise the test
Constraint Value	
defaultRadioEnvironment	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_InitReqNonDef
Group	:
ASP Type	: CPHY_Ini_REQ
Derivation Path	:
Comments	: Request to initialise the test
Constraint Value	
nonDefaultMultiCell	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_MAC_Rel (p_CellId: INTEGER; p_PhyChId: INTEGER)
Group	:
ASP Type	: CMAC_Config_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, configMessage release : NULL }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_PagingType1(p_CellId: INTEGER; p_RB_Id: SS_RB_Identity ; p_Pdu: PCCH_Message) Group : ASP Type : RLC_TR_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, tM_message pCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_RB_ReconfigureWithCnf(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Mui : Mui; p_Pdu: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest confirmationRequested: p_Mui, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_RB_SetUpAM(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity : p_RB_Id, confirmationRequest noConfirmationRequest : NULL, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_RB_SetUpAM_WithCnf(p_CellId: INTEGER; p_RB_Id: INTEGER; p_Mui : Mui; p_Pdu: DL_DCCH_Message) Group : ASP Type : RLC_AM_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest confirmationRequested: p_Mui, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_ResumeRB(p_CellId: INTEGER; p_RB_Id: INTEGER)
Group	:
ASP Type	: CRLC_Resume_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_RLC_SuspendRB(p_CellId: INTEGER; p_RB_Id: INTEGER; p_RLC_SeqNum: RLC_SequenceNumber)
Group	:
ASP Type	: CRLC_Suspend_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, n p_RLC_SeqNum }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_RRC_ConnRelCCCH(p_CellId: INTEGER; p_RB_Id: INTEGER ; p_Pdu: DL_CCCH_Message)
Group	:
ASP Type	: RLC_UM_DATA_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, uM_message dL_CCCH_Message : p_Pdu, specialLI TRUE }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_RRC_ConnRelDCCH(p_CellId: INTEGER; p_RB_Id: INTEGER ; p_Pdu : DL_DCCH_Message)
Group	:
ASP Type	: RLC_UM_DATA_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, uM_message dL_DCCH_Message : p_Pdu, specialLI FALSE }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_RRC_ConnSetup(p_CellId: INTEGER; p_RB_Id: INTEGER ; p_Pdu: DL_CCCH_Message)
Group	:
ASP Type	: RLC_UM_DATA_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, uM_message dL_CCCH_Message : p_Pdu, specialLI TRUE }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_RRC_SecModeCmd(p_CellId: INTEGER; p_RB_Id: INTEGER ; p_Pdu: DL_DCCH_Message)
Group	:
ASP Type	: RLC_AM_DATA_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, confirmationRequest noConfirmationRequest : NULL, aM_message dL_DCCH_Message : p_Pdu }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : cas_SysInfoChangeInd (p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: BCCH_FACH_Message) Group : ASP Type : RLC_TR_DATA_REQ Derivation Path : Comments :	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, tM_message bCCH_FACH_Message : p_Pdu }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_UL_DPCH_InfoHS (p_CellId: INTEGER; p_PhyChId: INTEGER; p_UL_DPCHInfo: UL_DPCH_Info_r5; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : ASP Type : CPHY_RL_Setup_REQ Derivation Path : Comments : To setup uplink physical channel DPCH.	
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo dPCHInfo_r5 : { ul_DPCHInfo p_UL_DPCHInfo, hs_DPCCHInd { cqi_RepetitionFactor p_HSDPA_ConfigType.cqi_RepetitionFactor, ackNackRepetitionFactor p_HSDPA_ConfigType.ackNackRepetitionFactor } } } }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMACHs_TFRC_ConfigCnf(p_CellId : INTEGER)
Group	:
ASP Type	: CMACHs_TFRCconfigure_CNF
Derivation Path	:
Comments	: Confirm a previous CMACHs_TFRCconfigure_REQ being successful.
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CMACHs_TFRC_ExplicitConfigReq(p_CellId : INTEGER;p_HSDPA_CfgInfo : HSDPA_ConfigType)
Group	:
ASP Type	: CMACHs_TFRCconfigure_REQ
Derivation Path	:
Comments	<p>: To configure the TFRC selection entity in the MAC-hs entity.</p> <p>channelisationCodeOffset + noOfChannelisationCodes shall not be great than 15; noOfChannelisaionCodes = 0 means to delete the HS-PDSCH and HS-SCCH channels, and release all related resource.</p> <p>If explicit is selected, the SS shall use the values specified here for the parameters "modulationScheme", "channelisationCodeOffset", "noOfChannelisatonCodes ", "tbSizeIndexOnHS_SCCH", "redundancyVersion" and "hs_PDSCH_TxPower".</p> <p>If sS_Configured is selected, the values specified here are the ranges for "channelisationCodeOffset", "noOfChannelisationCodes", and the initial value of HS-PDSCH transmission power, the SS shall dynamically select the suitable values for the parameters "modulationScheme", "channelisationCodeOffset", "noOfChannelisatonCodes ", "tbSizeIndexOnHS_SCCH", "redundancyVersion" and "hs_PDSCH_TxPower" according to the CQI information reported by the UE and the UE's capability category,</p>
Constraint Value	
<pre>{ cellId p_CellId , tfrcConfigMode explicit : { modulationScheme p_HSDPA_CfgInfo.modulationScheme, channelisationCodeOffset p_HSDPA_CfgInfo.channelisationCodeOffset, noOfChannelisatonCodes p_HSDPA_CfgInfo.noOfChannelisatonCodes, tbSizeIndexOnHS_SCCH p_HSDPA_CfgInfo.tbSizeIndexOnHS_SCCH, minimumInterTTIinterval p_HSDPA_CfgInfo.minimumInterTTIinterval , redundancyVersion p_HSDPA_CfgInfo.redundancyVersion , hs_PDSCH_TxPower p_HSDPA_CfgInfo.hs_PDSCH_TxPower -- default offset related to p-CPICH -- or s-CPICH } }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CQI_Reporting (p_CellId : INTEGER ; p_NbOfReports : INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_CQI_REQ
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, numberOfReports p_NbOfReports }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CQI_ReportingCnf (p_CellId : INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_CQI_CNF
Derivation Path	:
Comments	:
Constraint Value	
<pre>{ cellId p_CellId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CQI_ReportingInd (p_CellId : INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_CQI_IND
Derivation Path	:
Comments	: To verify that the UE has sent a CQI report (the value is not checked).
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, cqi ? }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_CQI_ReportingInd0 (p_CellId : INTEGER)
Group	:
ASP Type	: CPHY_HS_DPCCH_CQI_IND
Derivation Path	:
Comments	: To verify that the UE has sent a CQI report with 0.
Constraint Value	
<pre>{ cellId p_CellId, ratType fdd, cqi 0 }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DCH_148_DL (p_CellId : INTEGER; p_PhyChId : INTEGER; p_ActivationTime : ActivationTime)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.1.2
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType c_TrChConfigTypeDCH_NoSHO, configMessage { activationTime activationCFN : p_ActivationTime, dlconnectedTrCHList {{ trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL }}, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } }</pre>	
Detailed Comments	: For DCH1 transport channel the following parameters are fixed by core spec.(34.123 cl. 7.2.2.1):
<pre>TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU SIZE = 144 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 155</pre>	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DCH_148_DL_ActNow (p_CellId : INTEGER; p_PhyChId : INTEGER)
Group	:
ASP Type	: CPHY_TrCH_Config_REQ
Derivation Path	:
Comments	: For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.1.2
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, trchConfigType c_TrChConfigTypeDCH_NoSHO, configMessage { activationTime activateNow : NULL, dlconnectedTrCHList {{ trchid tsc_DL_DCH5, dl_TransportChannelType dch, transportChannelInfo c_DCH_148_TFS_DL }}, dlTFCS c_TFCS_Cmpl0_1_Tx (c_PowerOffsetInfoBelow64k) } } </pre>	
Detailed Comments	: For DCH1 transport channel the following parameters are fixed by core spec.(34.123 cl. 7.2.2.1):
	TTI = 40 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU SIZE = 144 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 155

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DL_HSPDSCH_Info (p_CellId: INTEGER; p_PhyChId: INTEGER; p_HS_PDSCHInfo : HS_PDSCHInfo)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: To setup down link physical channel DPCH.
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo hS_PDSCHInfo : p_HS_PDSCHInfo } } </pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_HSDSCH_DL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_Type : TrChConfigType; p_HS_DSCHMacdFlows : HS_DSCHMACdFlows) Group : ASP Type : CPHY_TrCH_Config_REQ Derivation Path : Comments : For FDD mode only. The configuration is defined in TS 34.123-1 cl. 6.10.2.4.5.1.2	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, trchConfigType p_Type, configMessage { activationTime activateNow : NULL, hsDSCHMacdFlows p_HS_DSCHMacdFlows } } </pre>	
Detailed Comments : For DCH1 transport channel the following parameters are fixed by core spec. TTI = 10 ms; two transport formats: TransportBlocks = 1, TB size = 148 bits; TansportBlock = 0, Size = 148. rlc_Size = RLC PDU SIZE = 144 bits. coding = convolutional; coding rate = 1/3; CRCsize = 16; RateMatching = 192	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_RB25_AM_Info (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER) Group : ASP Type : CRLC_Config_REQ Derivation Path : Comments : Used to setup AM RLC entity	
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModeInfo ul_AM_RLC_Mode :c_UL_AM_RLC_HSENH }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 : c_DL_AM_RLC_HSENH }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_UL_DPCH_ModifyInfo_HSENH (p_CellId: INTEGER; p_PhyChId: INTEGER; p_UL_DPCHInfo: UL_DPCH_Info_r5; p_ActivationTime : ActivationTime; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : ASP Type : CPHY_RL_Modify_REQ Derivation Path : Comments :	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo dPCHInfo_r5 : { ul_DPCHInfo p_UL_DPCHInfo, hs_DPCCHInd { cqi_RepetitionFactor p_HSDPA_ConfigType.cqi_RepetitionFactor, ackNackRepetitionFactor p_HSDPA_ConfigType.ackNackRepetitionFactor } } } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : car_CMACHs_HARQprocAssign_CNF(p_CellId: INTEGER) Group : ASP Type : CMACHs_HARQprocAssign_CNF Derivation Path : Comments : Confirm a previous CMACHs_HARQprocAssign_REQ being successful.	
Constraint Value	
<pre> { cellId p_CellId } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: car_CRLC_SendTestDataInOneMAC_Hs_PDU_Suc_CNF(p_CellId, p_RbId:INTEGER)
Group	:
ASP Type	: CRLC_SendTestDataInOneMAC_Hs_PDU_CNF
Derivation Path	:
Comments	: To confirm the request of binding subsequent data sending RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the same Mac-HS PDU.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity:p_RbId, --RB ID desired to be given result success }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_CMAC_MAChs_HARQprocAssign_REQ(p_CellId, p_ProcessId: INTEGER)
Group	:
ASP Type	: CMAC_MAChs_HARQprocAssign_REQ
Derivation Path	:
Comments	: To assign a HARQ process for handling next one MAC-hs PDU transmission. In normal operation a suitable HARQ process is, without TTCN intervening, selected by HARQ entity in the MAC-hs to service the MAC-hs PDU and the HARQ process identifier is set accordingly. This ASP provides TTCN the ability of selecting an HARQ process servicing the next one MAC-hs PDU which follows the ASP. After successful transmission the MAC-hs returns back to normal operation.
Constraint Value	
<pre>{ cellId p_CellId, harqProcessId p_ProcessId }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cas_CRLC_SendTestDataInOneMAC_Hs_PDU_REQ(p_CellId, p_RbId, p_N: INTEGER)
Group	:
ASP Type	: CRLC_SendTestDataInOneMAC_Hs_PDU_REQ
Derivation Path	:
Comments	: To request of binding subsequent data sending RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the same Mac-HS PDU.. On the request, the transmission of the test data is temporarily suppressed on the radio bearers till 'numOfSDUs' are received by RLC layer on the Radio Bearer. After receiving all SDU's the RLC layer submits to MAC such that all of them are sent in one MAC-Hs PDU.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo rB_Identity:p_RbId, --RB ID desired to be given numOfSDUs p_N -- Number of RLC SDU's }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_DL_DPCH_Info_r5 (p_CellId: INTEGER; p_PhyChId: INTEGER; p_DL_DPCHInfo: DL_DPCHInfo_r5)
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: To setup down link physical channel DPCH.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo dPCHInfo_r5 : { dl_DPCHInfo p_DL_DPCHInfo } } }</pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_DL_DPCH_ModifyInfo_r5 (p_CellId: INTEGER; p_PhyChId: INTEGER; p_DL_DPCHInfo: DL_DPCHInfo_r5; p_ActivationTime : ActivationTime; p_Follow : BOOLEAN)	
Group :	
ASP Type :	CPHY_RL_Modify_REQ
Derivation Path :	
Comments :	
Constraint Value	
<pre> { cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo dPCHInfo_r5 : { dl_DPCHInfo p_DL_DPCHInfo }, trchConfigToFollow p_Follow } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_RB_AM_Info_RAB_r5 (p_CellId: INTEGER; p_RB_Id: INTEGER;p_TimerPollProhbt :TimerPollProhibit; p_Timer_poll: TimerPoll; p_PollSDU: Poll_SDU; p_PollWindw: PollWindow; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)	
Group :	
ASP Type :	CRLC_Config_REQ
Derivation Path :	
Comments :	Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode : cb_UL_AM_RLC }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 :cb_DL_AM_RLC_r5 }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_RB_AM_Info_SRB_r5 (p_CellId: INTEGER; p_RB_Id: INTEGER; p_TimerPollProhbt :TimerPollProhibit; p_Timer_poll: TimerPoll; p_PollSDU: Poll_SDU; p_PollWindw: PollWindow; p_LogChMapping : RB_LogCH_Mapping; p_PayLoad : INTEGER)	
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup AM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayLoad, dl_RLCModelInfo ul_AM_RLC_Mode : cd_UL_AM_RLC_SRB }, sS_ul_RLC_Mode_r5 dl_AM_RLC_Mode_r5 :cd_DL_AM_RLC_SRB_r5 }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_RB_TM_Info_r5(p_CellId: INTEGER; p_RB_Id: INTEGER; p_PayloadSize: INTEGER; p_LogChMapping : RB_LogCH_Mapping) Group : ASP Type : CRLC_Config_REQ Derivation Path : Comments :	
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayloadSize, dl_RLCModeInfo ul_TM_RLC_Mode :{ segmentationIndication FALSE } }, sS_ul_RLC_Mode_r5 dl_TM_RLC_Mode :{ segmentationIndication FALSE } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name : ca_RB_TM_UL_Info_r5 (p_CellId: INTEGER; p_RB_Id: INTEGER;p_PayloadSize: INTEGER; p_LogChMapping : RB_LogCH_Mapping)	
Group :	
ASP Type : CRLC_Config_REQ	
Derivation Path :	
Comments :	
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize p_PayloadSize, dl_RLCModelInfo ul_TM_RLC_Mode :{ segmentationIndication FALSE } }, sS_ul_RLC_Mode_r5 dl_TM_RLC_Mode :{ segmentationIndication FALSE } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments :	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_UM_Info_r5(p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup UM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage setup : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize 136, dl_RLCModelInfo ul_UM_RLC_Mode : { transmissionRLC_Discard timerBasedNoExplicit : dt100 } }, sS_ul_RLC_Mode_r5 dl_UM_RLC_Mode_r5 : { dl_UM_RLC_LI_size size7 } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments : dl_PayloadSize = TB_Size – 12 = 136	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_RB_UM_ReconfInfo_r5 (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	:
Comments	: Used to setup UM RLC entity
Constraint Value	
<pre> { cellId p_CellId, routingInfo rB_Identity: p_RB_Id, ratType fdd, configMessage reconfigure : { sS_rlc_Info { sS_dl_RLC_Mode { dl_PayloadSize 136, dl_RLCModelInfo ul_UM_RLC_Mode : { transmissionRLC_Discard timerBasedNoExplicit : dt100 } }, sS_ul_RLC_Mode_r5 dl_UM_RLC_Mode_r5 : { dl_UM_RLC_LI_size size7 } }, rB_LogCH_Mapping p_LogChMapping } } </pre>	
Detailed Comments : dl_PayloadSize = TB_Size – 12 = 136	

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_UL_DPCH_Info_r5 (<p>p_CellId: INTEGER;</p> <p>p_PhyChId: INTEGER;</p> <p>p_UL_DPCHInfo: UL_DPCH_Info_r5)</p>
Group	:
ASP Type	: CPHY_RL_Setup_REQ
Derivation Path	:
Comments	: To setup uplink physical channel DPCH.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity : p_PhyChId, ratType fdd, setupMessage { physicalChannelInfo dPCHInfo_r5 : { ul_DPCHInfo p_UL_DPCHInfo } } }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: ca_UL_DPCH_ModifyInfo_r5 (p_CellId: INTEGER; p_PhyChId: INTEGER; p_UL_DPCHInfo: <p>UL_DPCH_Info_r5; p_ActivationTime : ActivationTime)</p>
Group	:
ASP Type	: CPHY_RL_Modify_REQ
Derivation Path	:
Comments	: To setup uplink physical channel DPDCH.
Constraint Value	
<pre>{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, modifyMessage { activationTime activationCFN : p_ActivationTime, physicalChannelInfo dPCHInfo_r5 : { ul_DPCHInfo p_UL_DPCHInfo } } }</pre>	
Detailed Comments	:

ASN.1 ASP Constraint Declaration	
Constraint Name	: cad_RB_UM_ReconfInfo_r5 (p_CellId: INTEGER; p_RB_Id: INTEGER; p_LogChMapping : RB_LogCH_Mapping)
Group	:
ASP Type	: CRLC_Config_REQ
Derivation Path	: ca_RB_UM_ReconfInfo_r5.
Comments	: Used to setup UM RLC entity for 120 RLC size
Constraint Value	
REPLACE configMessage.reconfigure.sS_rlc_Info.sS_dl_RLC_Mode.dl_PayloadSize BY 120	
Detailed Comments	: dl_PayloadSize = TB_Size – 12 = 136 – 16 (U–RNTI –C–RNTI = 32–16 =16) ==>120

PDU Constraint Declaration			
Constraint Name	: cd_RA_UpdReqAny_Drx_r5(p_UpdateType : UpdateType_v; p_RAI : RAI_v; p_KeySeq : KeySeq)		
Group	:		
PDU Type	: ROUTINGAREAUPDATEREQUEST		
Derivation Path	: cbr_RA_UpdReqAny_r5.		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	:		
Field Name	Field Value	Field Encoding	Comments
drxParameter	cr_DRXparamter_tv_Any		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name	: cd_RA_UpdReqAny_NoDrx_r5(p_UpdateType : UpdateType_v; p_RAI : RAI_v; p_KeySeq : KeySeq)		
Group	:		
PDU Type	: ROUTINGAREAUPDATEREQUEST		
Derivation Path	: cbr_RA_UpdReqAny_r5.		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	:		
Field Name	Field Value	Field Encoding	Comments
drxParameter	OMIT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_AMD_LIs_AnySQN(p_LIs: LenInds; p_Data:AM_Data) Group : PDU Type : MAC_AMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
dcField	'1'B		Data PDU
seqNum	?		
pollingBit	'?'B		Poll not checked
headerExt	'01'B		Followed by LI
lenInds	p_LIs		
data	p_Data		
piggybackedStatus	–		7
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_UMD_LIs_AnySQN(p_LIs: LenInds; p_Data: MAC_UM_Data) Group : PDU Type : MAC_UMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
seqNum	?		
eBit	tsc_E_LI_AndE_Bit		
lenInds	p_LIs		
data	p_Data		
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_MAC_D_PDU_NoHeader_AM_Status(p_PDU : RLC_STATUS_PDU) Group : PDU Type : MAC_D_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : MAC-D layer PDU. Ref 3G TS 25.321 clause 9.1.2			
Field Name	Field Value	Field Encoding	Comments
tcTf	OMIT		1
ueIdType	OMIT		2
ueId	OMIT		3
ctField	OMIT		4
dataAM	OMIT		5
dataUM	OMIT		Either AM or UM Data field will be present
statusAM	p_PDU		Either AM or UM Data field or AM Status will be present
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.2.1. <ol style="list-style-type: none"> 1. Target Channel Type Field. Used to indicate which logical channel data should be routed to / from when mapped to RACH / FACH. 2. UE Id type field. Used to indicate if the UE_Id field contains a 16 bit C-RNTI or a 32 bit U-RNTI. 3. UE Id field. Contains the C-RNTI or the U-RNTI of the UE that this message is to or from. 4. C/T field. Used to multiplex / demultiplex when more than 1 logical channel of a specific type is mapped to the same transport channel. 5. The RLC PDU to be transmitted or received. 			

PDU Constraint Declaration			
Constraint Name : cr_StatusAnyPad Group : PDU Type : RLC_STATUS_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to receive an AM STATUS PDU containing the given SUFI list. Any padding included is ignored. Parameters: p_SuperFields: The SUFI list to be received.			
Field Name	Field Value	Field Encoding	Comments
dC_Field	tsc_DC_ControlPDU		
type	tsc_PDU_TypeStatus		
superFields	–		
superFieldsRec	?		4
padding	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_StatusAndPad(p_SuperFields: SuperFields; p_NumHalfOctetsPadding: INTEGER) Group : PDU Type : RLC_STATUS_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to send an AM STATUS PDU containing the given superfields. Parameters: p_SuperFields: The super-fields to be included in the STATUS PDU. p_PaddingSizeHalfOctets: The number of half octets to be added at the end of the PDU. In general, this parameter will contain the value (2 * tcv_PU_Size) – (p_SuperFields size + 1) NOTE: SUFI list size = p_Superfields size + 1 half octet (for D/C field and Type)			
Field Name	Field Value	Field Encoding	Comments
dC_Field	tsc_DC_ControlPDU		1 bit
type	tsc_PDU_TypeStatus		3 bits
superFields	p_SuperFields		
superFieldsRec	–		
padding	INT_TO_BIT(0, (p_NumHalfOctetsPadding * 4))		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_UMD_312_7_1_5_3(p_SN: INTEGER) Group : PDU Type : MAC_UMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
seqNum	INT_TO_BIT(p_SN, tsc_UM_SN_Size)		
eBit	tsc_E_LI_AndE_Bit		
lenInds	c_LIs2_7BitLIs(tsc_LI_SDU_38B,tsc_LI7_Padding)		
data	tsc_RB_TestData_304		
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_UMD_128_7_1_5_3_FirstPDU(p_SN: INTEGER) Group : PDU Type : MAC_UMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
seqNum	INT_TO_BIT(p_SN, tsc_UM_SN_Size)		
eBit	tsc_E_LI_AndE_Bit		
lenInds	c_LIs2_7BitLIs(tsc_LI7_En dOfSDU, tsc_LI_SDU_14B)		
data	tsc_RB_TestData_112		
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_UMD_128_7_1_5_3(p_SN: INTEGER) Group : PDU Type : MAC_UMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
seqNum	INT_TO_BIT(p_SN, tsc_UM_SN_Size)		
eBit	tsc_E_LI_AndE_Bit		
lenInds	c_LIs2_7BitLIs(tsc_LI_SDU_14B,tsc_LI7_Padding)		
data	tsc_RB_TestData_112		
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_AMD_LIs(p_SN: INTEGER; p_LIs: LenInds; p_Data:AM_Data) Group : PDU Type : MAC_AMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
dcField	'1'B		Data PDU
seqNum	INT_TO_BIT(p_SN, tsc_AM_SN_Size)		
pollingBit	'?'B		Poll not checked
headerExt	'01'B		Followed by LI
lenInds	p_LIs		
data	p_Data		
piggybackedStatus	–		7
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_AMD_LIs_Poll(p_SN: INTEGER; p_LIs: LenInds; p_Data:AM_Data) Group : PDU Type : MAC_AMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
dcField	'1'B		Data PDU
seqNum	INT_TO_BIT(p_SN, tsc_AM_SN_Size)		
pollingBit	'1'B		Poll requested
headerExt	'01'B		Followed by LI
lenInds	p_LIs		
data	p_Data		
piggybackedStatus	–		7
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_AMD_LIs(p_SN: INTEGER; p_LIs: LenInds; p_Data:AM_Data) Group : PDU Type : MAC_AMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
dcField	'1'B		Data PDU
seqNum	INT_TO_BIT(p_SN, tsc_AM_SN_Size)		
pollingBit	'0'B		Poll not requested
headerExt	'01'B		Followed by LI
lenInds	p_LIs		
data	p_Data		
piggybackedStatus	–		7
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_UMD_LIs(p_SN: INTEGER; p_LIs: LenInds; p_Data: MAC_UM_Data) Group : PDU Type : MAC_UMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to represent a UM PDU containing data and a length indicator group, and no padding. Parameters: p_SN: An integer containing the next sequence number to be transmitted or received. This parameter is used in a call to INT_TO_BIT, so a value must be provided. p_LIs: The length indicator group to be used in the PDU. This field must contain at least one LI. p_Data: The data to be included in the PDU. It is the callers responsibility to ensure that the data size + the LI group size is exactly equal to the current PU size.			
Field Name	Field Value	Field Encoding	Comments
seqNum	INT_TO_BIT(p_SN, tsc_UM_SN_Size)		
eBit	tsc_E_LI_AndE_Bit		
lenInds	p_LIs		
data	p_Data		
padding	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_MAC_D_PDU_NoHeader_AM_Status(p_PDU : RLC_STATUS_PDU) Group : PDU Type : MAC_D_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : MAC-D layer PDU. Ref 3G TS 25.321 clause 9.1.2			
Field Name	Field Value	Field Encoding	Comments
tcTf	OMIT		1
uelType	OMIT		2
uelD	OMIT		3
ctField	OMIT		4
dataAM	OMIT		5
dataUM	OMIT		Either AM or UM Data field will be present
statusAM	p_PDU		Either AM or UM Data field or AM Status will be present
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.2.1. <ol style="list-style-type: none"> 1. Target Channel Type Field. Used to indicate which logical channel data should be routed to / from when mapped to RACH / FACH. 2. UE Id type field. Used to indicate if the UE_Id field contains a 16 bit C-RNTI or a 32 bit U-RNTI. 3. UE Id field. Contains the C-RNTI or the U-RNTI of the UE that this message is to or from. 4. C/T field. Used to multiplex / demultiplex when more than 1 logical channel of a specific type is mapped to the same transport channel. 5. The RLC PDU to be transmitted or received. 			

PDU Constraint Declaration			
Constraint Name : cs_MAC_D_PDU_NoHeader_AMD(p_PDU : MAC_AMD_PDU) Group : PDU Type : MAC_D_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : MAC-D layer PDU. Ref 3G TS 25.321 clause 9.1.2			
Field Name	Field Value	Field Encoding	Comments
tcTf	OMIT		1
ueIdType	OMIT		2
ueId	OMIT		3
ctField	OMIT		4
dataAM	p_PDU		5
dataUM	OMIT		Either AM or UM Data field will be present
statusAM	OMIT		Either AM or UM Data field or AM Status will be present
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.2.1. <ol style="list-style-type: none"> 1. Target Channel Type Field. Used to indicate which logical channel data should be routed to / from when mapped to RACH / FACH. 2. UE Id type field. Used to indicate if the UE_Id field contains a 16 bit C-RNTI or a 32 bit U-RNTI. 3. UE Id field. Contains the C-RNTI or the U-RNTI of the UE that this message is to or from. 4. C/T field. Used to multiplex / demultiplex when more than 1 logical channel of a specific type is mapped to the same transport channel. 5. The RLC PDU to be transmitted or received. 			

PDU Constraint Declaration			
Constraint Name : cs_MAC_D_PDU_NoHeader_UMD(p_PDU : MAC_UMD_PDU) Group : PDU Type : MAC_D_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : MAC-D layer PDU. Ref 3G TS 25.321 clause 9.1.2			
Field Name	Field Value	Field Encoding	Comments
tcTf	OMIT		1
uelType	OMIT		2
uelD	OMIT		3
ctField	OMIT		4
dataAM	OMIT		5
dataUM	p_PDU		Either AM or UM Data field will be present
statusAM	OMIT		Either AM or UM Data field or AM Status will be present
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.2.1. <ol style="list-style-type: none"> 1. Target Channel Type Field. Used to indicate which logical channel data should be routed to / from when mapped to RACH / FACH. 2. UE Id type field. Used to indicate if the UE_Id field contains a 16 bit C-RNTI or a 32 bit U-RNTI. 3. UE Id field. Contains the C-RNTI or the U-RNTI of the UE that this message is to or from. 4. C/T field. Used to multiplex / demultiplex when more than 1 logical channel of a specific type is mapped to the same transport channel. 5. The RLC PDU to be transmitted or received. 			

PDU Constraint Declaration			
Constraint Name : cs_MAC_H_PDU_7_1_5_3(p_vf: B1; p_TSN : B6;p_SID1 :B3;p_SID2 :B3) Group : PDU Type : MAC_H_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : MAC-H layer PDU. Ref 3G TS 25.321 clause 9.1.4			
Field Name	Field Value	Field Encoding	Comments
mac_h_Header	cs_MAC_H_Header2SID_7_1_5_3(p_vf, p_TSN, p_SID1,p_SID2)		
data1	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_128_7_1_5_3_FirstPDU(0))		1
data2	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_312_7_1_5_3(1))		1
data3	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_128_7_1_5_3(2))		1
data4	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_312_7_1_5_3(3))		1
data5	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_128_7_1_5_3(4))		1
data6	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_312_7_1_5_3(5))		1
data7	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_128_7_1_5_3(6))		1
data8	cs_MAC_D_PDU_NoHeader_UMD(c_UMD_312_7_1_5_3(7))		1
data9	–		1
data10	–		1
data11	–		1
data12	–		1
Padding	tsc_PAD_20Bit		
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.1.4 and 9.2.2. 1.The MAC-D PDU to be transmitted or received. The number of data PDU's is presently defined as 12 only, based on present requirements of for tc 7.1.5.3			

PDU Constraint Declaration			
Constraint Name : cs_MAC_H_PDU_1SID(p_Qld : B3; p_TSN : B6;p_SID :B3;p_N:B7;p_Data:MAC_D_PDU;p_Pad: BITSTRING) Group : PDU Type : MAC_H_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : MAC-H layer PDU. Ref 3G TS 25.321 clause 9.1.4			
Field Name	Field Value	Field Encoding	Comments
mac_h_Header	cs_MAC_H_Header1SID(p_Qld, p_TSN , p_SID, p_N)		
data1	p_Data		1
data2	OMIT		1
data3	OMIT		1
data4	OMIT		1
data5	OMIT		1
data6	OMIT		1
data7	OMIT		1
data8	OMIT		1
data9	OMIT		1
data10	OMIT		1
data11	OMIT		1
data12	OMIT		1
Padding	p_Pad		Mac-H Padding
Detailed Comments : For a detailed description of the semantics and applicability of each of these fields, see 3G TS 25.321 clause 9.1.4 and 9.2.2. 1.The MAC-D PDU to be transmitted or received. The number of data PDU's is presently defined as 12 only, based on present requirements of for tc 7.1.5.3			

PDU Constraint Declaration			
Constraint Name : cbr_Modify_PDP_ContextAcp_MO Group : PDU Type : MODIFYPDPCONTEXTACCEPT_ul Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Modify PDP Context Accept ue -> n 3GPP 24.008, 9.5.11			
Field Name	Field Value	Field Encoding	Comments
ti	cr_TI_Any		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01001001'B		
protocolConfOpts	cr_ProtoCfgOptAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cbs_Deact_PDP_ContextAcp_MT(p_ti: TI) Group : PDU Type : DEACTIVATEPDPCONTEXTACCEPT Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Deactivate PDP Context Accept n <=> ue 3GPP 24.008, 9.5.15			
Field Name	Field Value	Field Encoding	Comments
ti	p_ti		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000111'B		
protocolConfOpts	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cbs_Modify_PDP_ContextReq_MT(p_Ti: TI; p_LLC_SAPI_v: LLC_SAPI_v; p_qos_lv: QualityOfService_lv) Group : PDU Type : MODIFYPDPCONTEXTREQUEST_dl Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Modify PDP Context for an UE supporting UMTS only n -> ue 3GPP 24.008, 9.5.9			
Field Name	Field Value	Field Encoding	Comments
ti	p_Ti		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01001000'B		
spare	'0000'B		
radioPriority	cs_RadioPriorityHigh_v		
requestedLLC_SAPI	p_LLC_SAPI_v		
newQoS	p_qos_lv		
pDP_Addr	–		
pKT_FlowIdentifier	–		
protocolConfOpts	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_IMSI_DetachInd			
Group :			
PDU Type : IMSIDETACHINDICATION			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		IMSI DETACH INDICATION message carries TMSI information element
mMProtocolDiscriminator	'0101'B		
msgType	'??000001'B		
mSClsmk1	c_MS_Clsmk1_Def		
mobileId	c_MobileIdTMSI_lv		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_ActPDP_ContextReqMO(p_QosReq : QualityOfService_Iv) Group : PDU Type : ACTIVATEPDPCONTEXTREQUESTul Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Activate PDP Context Request ue -> n 3GPP 24.008, 9.5.1			
Field Name	Field Value	Field Encoding	Comments
ti	cr_TI_Any		This has to be set to Not Assigned by UE in UMTS domain.
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	cr_NSAPI_v		
requestedLLC_SAPI	cr_LLC_SAPI_v		
requestedQoS	p_QosReq		The AT command interface will be used to set the QoS to this value.
pDP_Address	cr_StaticPDP_AddressAny		The GGSN logical name or the external packet data network logical name
accessPtName	cr_AccessPtNameAny IF_PRESENT		
protocolConfOpts	cr_ProtoCfgOptAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_DetachReq (p_type : DetachType; p_ptmsi : GMM_MS_IdentityPTMSI; p_signature : PTMSI_Signature_tlv) Group : PDU Type : DETACHREQUESTMO Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000101'B		
spare4	?		
detachType	p_type		
ptmsi	p_ptmsi		
ptmsiSignature	p_signature		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_ActPDP_ContextAcpMT (p_ti: TI; p_LLC_SAPI_v: LLC_SAPI_v; p_qos_lv: QualityOfService_lv; p_pdp_addr_tlv: PktDataProtoAddr) Group : PDU Type : ACTIVATEPDPCONTEXTACCEPTdl Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Activate PDP Context Accept n -> ue Reference 3G PP 24.008, 9.5.2			
Field Name	Field Value	Field Encoding	Comments
ti	p_ti		This will be overwritten in the test case with the received ti
sM_ProtocolDiscriminator	tsc_SMPD		PD for SM
msgType	'01000010'B		Msg type for PDP Context Accept
negotiatedLLC_SAPI	p_LLC_SAPI_v		Mobile in UMTS should neglect this IE. If in GSM domain, will use this SAPI.
negotiatedQoS	p_qos_lv		
spare	'0000'B		
radioPriority	cs_RadioPriorityHigh_v		
pDP_Address	p_pdp_addr_tlv		
protocolConfOpts	-		
pktFlowID	cs_PktFlowId		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_DetachAcc			
Group :			
PDU Type : DETACHACCEPTMO			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		Force to standby not indicated
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000110'B		
spare	'0000'B		
forceToStandby	c_ForceToStandby('000'B)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_RA_UpdComplete			
Group :			
PDU Type : ROUTING_AREA_UPDATE_COMPLETE			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001010'B		
listNPDUnumbers	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_G_ChReleaseNormal Group : PDU Type : CHANNELRELEASE Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CHANNEL RELEASE message with RR cause = normal event			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
rRProtocolDiscriminator	'0110'B		
msgType	'0D'O		'00001101'B
rRCau	c_G_RR_CauNormalevent		normal event
bA_Range	–		BA range O OCTETSTRING minimum 6 octets no up limit
groupChannelDescr	–		group channel description O
groupCipherKey	–		OCTETSTRING[4..13] group cipher key number C
gPRS_Resumption	–		OCTETSTRING[1] GPRS resumption O
bA_ListPref	–		OCTETSTRING[1] BA list pref O OCTETSTRING at least 3 octets no up limit
uTRAN_FreqList	–		UTRAN frequency list O OCTETSTRING[3..
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_G_ChannelReq_Any Group : PDU Type : CHANNELREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received CHANNEL REQUEST message			
Field Name	Field Value	Field Encoding	Comments
estCauRandomRef	?		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_G_MeasReport_Any Group : PDU Type : MEASUREMENTREPORT Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A measurement report match any received MSR_RPT_PDU.			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'15'O		measurement message type
measResults	c_G_MeasResults_Any		containing any value
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType1(p_CellAlloc : CellChDescr; p_RACHControlParam: RACHControlParam; p_BandInd : B1) Group : PDU Type : SYSTEMINFORMATIONTYPE1 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
I2PseudoLength	'55'O		L2 pseudo length = 21
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00011001'B		message type
cellChDescr	p_CellAlloc		cell channel description, with IEI omitted
rACHControlParam	p_RACHControlParam		rach control parameters, without IEI
sl1RO	c_SI1_RO(p_BandInd)		SI1 rest octets
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType13(p_SI13RO: SI13RO) Group : PDU Type : SYSTEMINFORMATIONTYPE13 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'01'O		L2 pseudo length = 0
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00000000'B		message type
si13roct	p_SI13RO		SI3 rest octets
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType2(p_NeighBCCHs: NeighCellDescr;p_NCC_Permitted: O1;p_RACHControlParam: RACHControlParam) Group : PDU Type : SYSTEMINFORMATIONTYPE2 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'59'O		L2 pseudo length = 22
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00011010'B		message type
neighBCCHFreqList	p_NeighBCCHs		bcch frequency list of neighbour cells with IEI omitted
nCCPermitted	p_NCC_Permitted		ncc permitted
rACHControlParam	p_RACHControlParam		rach control parameters
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType2bis(p_ExtBCCHs : NeighCellDescr; p_RACHControlParam: RACHControlParam) Group : PDU Type : SYSTEMINFORMATIONTYPE2bis Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'55'O		L2 pseudo length = 21
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00000010'B		message type
extNeighBCCHFREQList	p_ExtBCCHs		extended bcch frequency list of neighbour cells
rACHControlParam	p_RACHControlParam		rach control parameters
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType2quater(p_SI2quaterRO : SI2quaterRO) Group : PDU Type : SYSTEMINFORMATIONTYPE2quater Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'05'O		L2 pseudo length = 1
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00000111'B		message type
sl2quaterRO	p_SI2quaterRO		UTRAN parameters
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType3(p_CellIdentity : O2; p_LAI: LocAreaId_v; p_ControlChDescr:ControlChDescr; p_CellOption: CellOptionBCCH; p_CellSelParam : CellSelParam; p_RACHControlParam: RACHControlParam; p_SI3RO: SI3RO) Group : PDU Type : SYSTEMINFORMATIONTYPE3 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'49'O		L2 pseudo length = 18
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00011011'B		message type
cellId	p_CellIdentity		cell identity
lai	p_LAI		location area identification
controlChDescr	p_ControlChDescr		control channel description
cellOption	p_CellOption		cell options/BCCH
cellSelParam	p_CellSelParam		cell selection parameters
rACHControlParam	p_RACHControlParam		rach control parameters
si3RO	p_SI3RO		SI3 rest octets
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType4(p_LAI: LocAreaId_v; p_CellSelParam : CellSelParam; p_RACHControlParam: RACHControlParam; p_SI4RO: SI4RO) Group : PDU Type : SYSTEMINFORMATIONTYPE4 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'31'O		L2 pseudo length = 12
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00011100'B		message type
lai	p_LAI		location area identification
cellSelParam	p_CellSelParam		cell selection parameters
rACHControlParam	p_RACHControlParam		rach control parameters
cbchd	OMIT		cbch channel description
cbchmobileAlloc	OMIT		mobile allocation
si4roct	p_SI4RO		SI4 rest octets OCTETSTRING [10]
Detailed Comments : no cell broadcast channel description IE, no cell broadcast channel mobile allocation IE.			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType5(p_NeighCellFreqList :NeighCellDescr) Group : PDU Type : SYSTEMINFORMATIONTYPE5 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'49'O		L2 pseudo length =18
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00011101'B		message type
bCCHFreqList	p_NeighCellFreqList		bcch frequency list
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType5bis(p_ExtBCCHs : NeighCellDescr) Group : PDU Type : SYSTEMINFORMATIONTYPE5bis Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'49'O		L2 pseudo length = 18
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00000101'B		message type
extNeighBCCHFreqList	p_ExtBCCHs		extended bcch frequency list of neighbour cells
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_SysInfoType6(p_CellIdentity : O2; p_LAI: LocAreaId_v;p_CellOptionSACCH : CellOptionSACCH; p_NCCPermitted : NCCPermitted; p_SI6RO: SI6RO) Group : PDU Type : SYSTEMINFORMATIONTYPE6 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'2D'O		L2 pseudo length = 11
skipIndicator	'0000'B		skip indicator
rRProtocolDiscriminator	'0110'B		RR protocol discriminator
msgType	'00011110'B		message type
ci	p_CellIdentity		cell identity
lai	p_LAI		location area identification
co	p_CellOptionSACCH		cell options /SACCH
nCCPermitted	p_NCCPermitted		ncc permitted
si6roct	p_SI6RO		SI6 Rest Octets
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_G_ClassmarkChangeAny Group : PDU Type : CLASSMARKCHANGE Derivation Path : Encoding Rule Name : Encoding Variation : Comments : RR CLASSMARK CHANGE ue/ms -> ntw 3GPP TS 44.018 clause 9.1.11			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		skip indicator M
rRProtocolDiscriminator	'0110'B		BITSTRING [4] RR protocol discriminator M
msgType	'16'O		BITSTRING [4] message type M
msclsmk	c_MS_Clsmk2_Any_lv		BITSTRING [8] mobile station classmark M
additionalMsclsmk	cr_MSCLSMK3_Any		OCTETSTRING [4] additional mobile station classmark information C
			OCTETSTRING [14]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_G_UtranClassmarkChange Group : PDU Type : UTRANCLASSMARKCHANGE Derivation Path : Encoding Rule Name : Encoding Variation : Comments : RR UTRAN CLASSMARK CHANGE ue/ms -> ntw 3GPP TS 44.018 clause 9.1.11a			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	'0110'B		RR protocol discriminator M BITSTRING [4]
msgType	'60'O		message type M BITSTRING [8]
uTRANPreConfigInfo	c_UtranPreConfigInfo		UTRAN predefined configuration status information M OCTETSTRING [2..n]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_ImmediateAssignment (p_ARFCN : B10 ; p_TSC : B3; p_RR_RA : INTEGER ; p_RR_RFN : RFN) Group : PDU Type : IMMEDIATEASSIGNMENT Derivation Path : Encoding Rule Name : Encoding Variation : Comments : RR IMMEDIATE ASSIGNMENT ntw -> ue/ms 3GPP TS 44.018 clause 9.1.18			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'2D'O		L2 pseudo length M
skipIndicator	tsc_Gen_SkipIndicator		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	tsc_RR_Msgs_Proto_Disc		BITSTRING [4] RR protocol discriminator M
msgType	tsc_ImmediateAssignmentM sg_Type		BITSTRING [4] message type M
dedicatedModeOrTBF	c_G_DedicatedModeOrTBF		BITSTRING [8] dedicated mode or TBF M
pageMode	c_G_PageModeIE		BITSTRING [4] without IEI page mode M
chDescr	c_G_ChannelDescr (p_ARFCN, p_TSC)		BITSTRING [4] without IEI channel description C
packetChDescr	OMIT		OCTETSTRING [3] packet channel description C
reqRef	c_G_ReqRef (p_RR_RA , p_RR_RFN)		OCTETSTRING [3] request reference M
ta	c_G_TA		OCTETSTRING [3] timing advance M
mobileAlloc	c_G_MobileAlloc		OCTETSTRING [1] mobile allocation, M
startingTime	OMIT		OCTETSTRING [1..9] starting time O
iaroct	c_G_IARO		OCTETSTRING [3] IA rest octets / frequency parameter, before time M
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : c_IMSI_DetachIndAny Group : PDU Type : IMSIDETACHINDICATION Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Used only in postamble, so don't care about the contents, only the message type			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'??000001'B		
mSClsmk1	c_MS_Clsmk1_Any		
mobileId	c_MobileIdAny_lv		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_G_SetupUL_MO Group : PDU Type : SETUPul Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC SETUP n <- ue			
Field Name	Field Value	Field Encoding	Comments
ti	cr_TI_MO		
cC_ProtocolDiscriminator	'0011'B		
msgType	'??000101'B		
repeatInd	c_RepeatIndAny IF_PRESENT		
bcap1	cr_BcapAnyMO		
bcap2	cr_BcapAnyMO IF_PRESENT		
facility	cr_FacAny IF_PRESENT		
cgps	cr_CGPS_Any IF_PRESENT		
cdpn	cr_CDPN_Any		
cdps	cr_CDPS_Any IF_PRESENT		
llcRepeatInd	c_RepeatIndAny IF_PRESENT		
llc1	cr_LLC_Any IF_PRESENT		
llc2	cr_LLC_Any IF_PRESENT		
hlcRepeatInd	c_RepeatIndAny IF_PRESENT		
hlc1	cr_HLC_Any IF_PRESENT		
hlc2	cr_HLC_Any IF_PRESENT		
userUser	cr_UserUserAny IF_PRESENT		
sS_VersionInd	cr_SS_VersionIndAny IF_PRESENT		
cLIR_Suppression	'10100001'B IF_PRESENT		
cLIR_Invocation	'10100010'B IF_PRESENT		
cC_Capabilities	cr_CC_CapabilitiesAny IF_PRESENT		
facilityCCBS_AdvRecall	cr_FacilityAdvRecall IF_PRESENT		
facilityCCBS_RecallAlign	cr_FacilityRecallAlign IF_PRESENT		
streamId	cr_StreamIdAny IF_PRESENT		
supportedCodecs	cr_CodecListAny IF_PRESENT		supported codecs O OCTETSTRING[5-n]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_ChReqOtherProc Group : PDU Type : CHANNELREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
estCauRandomRef	('111?????'B, '0001????'B)		value depends on NECI bit
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_PacketEnhancedMeasRpt(p_TLLI : O4; p_NCMeasRpt : NC_MeasRpt) Group : PDU Type : PACKETENHANCEDMEASUREMENTREPORT Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Includes NC Measurement Report			
Field Name	Field Value	Field Encoding	Comments
msgType	'001010'B		Message type
tLLI	p_TLLI		
nCMeasRep	p_NCMeasRpt		
r5Mask	?		
grntiXMask	*		not present if r5Mask = 0
gRNTIExtension	*		not present if r5Mask = 0 or grntiXMask = 0
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_PacketDownlinkAssignment(p_TLLI : OCTETSTRING; p_DLTfI, p_Gamma : B5) Group : PDU Type : PACKETDOWNLINKASSIGNMENT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
msgType	'000010'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		Normal paging
persistenceLevelMask	'0'B		
persistenceLevel1	–		not Present if persistenceLevelMask=0
persistenceLevel2	–		not Present if persistenceLevelMask=0
persistenceLevel3	–		not Present if persistenceLevelMask=0
persistenceLevel4	–		not Present if persistenceLevelMask=0
globalTFImask	'1'B		
gLOBAL_TFI	OMIT		not present if globalTFImask=1
mask2	'0'B		not present if globalTFImask=0
tLLI	p_TLLI		not present if globalTFImask=0 and mask2=1
spareBit1	'0'B		set to '0'B
macMode	'00'B		
rLCMode	'0'B		
controlAck	'0'B		
timeslotAllocation	'00010000'B		
pktTimingAdvance	c_PacketTimingAdvance		
mask1	'0'B		
p0	–		not present if mask1 = 0
spareBit2	–		not present if mask1 = 0. set to '0'B if present
pRMode	–		not present if mask1 = 0
freqParamMask	'0'B		
freqParams	–		not present if freqParamMask = 0
tfiMask	'1'B		
dLTfIAssignment	p_DLTfI		not present if tfiMask = 0
pcMask	'1'B		
powerCtrlParams	c_PowerControlParams(p_Gamma)		not present if pcMask = 0
startTimeMask	'0'B		
tbFStartTime	–		not present if startTimeMask = 0
spareBit3	'0'B		set to '0'B
r99Mask	'1'B		

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PDU Constraint Declaration			
Field Name	Field Value	Field Encoding	Comments
egprsMask	'0'B		not present if r99mask = 0
egprsWindowSize	—		not present if r99mask = 0 or if egprsMask=0
linkQualMeasMode	—		not present if r99mask = 0 or if egprsMask=0
bepMask	—		not present if r99mask = 0 or if egprsMask=0
bepPeriod2	—		not present if r99mask = 0 or if egprsMask=0 or if bepMask=0
pktXTAMask	'0'B		not present if r99mask = 0
pktExtendedTA	—		not present if r99mask = 0 or if pktXTAMask=0
compactMask	'0'B		not present if r99mask = 0
compactReducedMA	—		not present if r99mask = 0 or if compactMask=0
r5Mask	'0'B		not present if r99mask = 0
rBldMask	—		not present if r99mask = 0 or if r5Mask=0
rBld	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
grntiXMask	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
gRNTIExtension	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0 or if grntiXMask=0
ulCtrlMask	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
ulCtrlTimeslot	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0 or if ulCtrlMask=0
hfnMask	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0
hfnLSB	—		not present if r99mask = 0 or if r5Mask=0 or if rBldMask=0 or if hfnMask=0
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_PacketControlAcknowledgement Group : PDU Type : PACKETCONTROLACKNOWLEDGEMENT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
msgType	'000001'B		Message type
tLLI	?		
ctrlAck	?		
mask	*		
rRBPMask	*		not present if mask=0
tn_RRBP	*		not present if mask=0 or if rRBPMask=0
gRNTIMask	*		not present if mask=0
gRNTIExt	*		not present if mask=0 or if gRNTIMask=0
paddingBits	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_P_ImmediateAssignment(p_downlink : B1; p_ARFCN : B10 ; p_RR_RA : INTEGER ; p_RR_RFN : RFN; p_RO : IARO) Group : PDU Type : IMMEDIATEASSIGNMENT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
l2PseudoLength	'2D'O		L2 pseudo length M
skipIndicator	tsc_Gen_SkipIndicator		OCTETSTRING [1] skip indicator M
rRProtocolDiscriminator	tsc_RR_Msgs_Proto_Disc		BITSTRING [4] RR protocol discriminator M
msgType	tsc_ImmediateAssignmentMsg_Type		BITSTRING [4] message type M
dedicatedModeOrTBF	c_G_TBFFMode(p_downlink)		BITSTRING [8] dedicated mode or TBF M
pageMode	c_G_PageModeIE		BITSTRING [4] without IEI page mode M
chDescr	OMIT		BITSTRING [4] without IEI channel description C
packetChDescr	c_PacketChDescr(p_ARFCN)		OCTETSTRING [3] packet channel description C
reqRef	c_G_ReqRef (p_RR_RA, p_RR_RFN)		OCTETSTRING [3] request reference M
ta	c_G_TA		OCTETSTRING [3] timing advance M
mobileAlloc	c_G_MobileAlloc		OCTETSTRING [1] mobile allocation, M
startingTime	OMIT		OCTETSTRING [1..9] starting time O
iaroct	p_RO		OCTETSTRING [3] IA rest octets / frequency parameter, before time M
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType1(p_PBCCHInfo : PBCCH_Info; p_PCCCHParams : PCCCH_OrganisationParameters; p_CellCnfgInfo : G_CellConfigInfo; p_NMO : B2; p_MeasOrder : B1) Group : PDU Type : PACKETSYSTEMINFORMATIONTYPE1 Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Default PSI 1 defined in 51.010 40.2.2.1.1			
Field Name	Field Value	Field Encoding	Comments
msgType	'110001'B		Message type
pageMode	'00'B		
pBCCH_CHANGE_MARK	'000'B		
pSI_CHANGE_FIELD	'0000'B		
pSI1_REPEAT_PERIOD	p_PBCCHInfo.pSI1_REPEAT_PERIOD		
pSI_COUNT_LR	p_PBCCHInfo.pSI_COUNT_LR		
pSI_COUNT_HR_Mask	'1'B		
pSI_COUNT_HR	p_PBCCHInfo.pSI_COUNT_HR		not present if pSI_COUNT_HR_Mask = 0
MEASUREMENT_ORDER	p_MeasOrder		
gPRS_CellOptions	c_GPRS_CellOptionsPSI1(p_NMO)		
pRACH_ControlParameters	c_PRACHCntrlParams		
pCCCH_OrganisationParameters	p_PCCCHParams		
globalPowerControlParameters	c_GlobalPowerCtrlParams		
pSI_STATUS_IND	'0'B		
spareMask	'1'B		fields below are added in R99
mSCR	'1'B		present if spareMask = 1
sGSNR	'1'B		present if spareMask = 1
bandIndicator	p_CellCnfgInfo.bandIndicator		present if spareMask = 1
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType2_1st(p_MCC, p_MNC: HEXSTRING; p_LAC: OCTETSTRING; p_RAC : O1; p_AddPSIMask : B1; p_AddPSI : AdditionalPSIMessages) Group : PDU Type : PACKETSYSTEMINFORMATIONTYPE2 Derivation Path : Encoding Rule Name : Encoding Variation : Comments : ist Instance of Default PSI 2			
Field Name	Field Value	Field Encoding	Comments
msgType	'110010'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		
pSI2_CHANGE_MARK	'01'B		
pSI2_INDEX	'000'B		
pSI2_COUNT	'010'B		
cellIdentificationMask	'1'B		
cellIdentification	c_CellIdentification(p_MCC, p_MNC, p_LAC, p_RAC)		not present if cellIdentificationMask = 0
nonGPRSCellOptionsMask	'1'B		
nonGPRSCellOptions	c_NonGPRSCellOptions		not present if nonGPRSCellOptionsMask = 0
referenceFreqLists	c_RefFreqListNone		
cellAllocation	c_CellAllocListNone		
gPRS_MobileAllocations	c_GPRSMobAllocListNone		
pCCCH_Description	c_PCCCH_DescrListNone		
spareMask	'1'B		fields below are added in R99
compactControlMask	'0'B		not present if spareMask = 0
compactControlInfo	–		not present if spareMask = 0 or compactControlMask = 0
additionalPSI_MsgMask	p_AddPSIMask		not present if spareMask = 0
additionalPSI_Msg	p_AddPSI		not present if spareMask = 0 or additionalPSI_MsgMask = 0
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType2_2nd(p_rFL_Contents_Len:B4;p_rFL_Contents:OCTETSTRING;p_mA_LENGTH:B6;p_mA_BITMAP:BITSTRING) Group : PDU Type : PACKETSYSTEMINFORMATIONTYPE2 Derivation Path : Encoding Rule Name : Encoding Variation : Comments : If this needs to be padded to a set number of octets, a second copy needs to be produced for DCS/PCS because their GPRS MA is different. values from TS 51.010-1 v.5.5.0 subclause 40.2.1.1.1			
Field Name	Field Value	Field Encoding	Comments
msgType	'110010'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		Normal Paging
pSI2_CHANGE_MARK	'01'B		
pSI2_INDEX	'001'B		
pSI2_COUNT	'010'B		Three instances of PSI2
cellIdentificationMask	'0'B		Cell Identification parameters not present
cellIdentification	OMIT		not present if cellIdentificationMask = 0
nonGPRSCellOptionsMask	'0'B		Non GPRS Cell Options not present
nonGPRSCellOptions	OMIT		not present if nonGPRSCellOptionsMask = 0
referenceFreqLists	c_ReferenceFreqLists('0010'B,p_rFL_Contents_Len,p_rFL_Contents)		
cellAllocation	c_CellAllocLists('0010'B)		List 2
gPRS_MobileAllocations	c_GPRS_MobileAllocationLists('0001'B,p_mA_LENGTH,p_mA_BITMAP)		
pCCCH_Description	c_PCCCH_DescriptionList_Hopping('0010'B,'000010'B,'00001000'B)		
spareMask	'1'B		fields below are added in R99
compactControlMask	'0'B		not present if spareMask = 0
compactControlInfo	OMIT		not present if spareMask = 0 or compactControlMask = 0
additionalPSI_MsgMask	'0'B		not present if spareMask = 0
additionalPSI_Msg	OMIT		not present if spareMask = 0 or additionalPSI_MsgMask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.19			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType2_3rd(p_rFL_Contents_Len:B4;p_rFL_Contents:OCTETSTRING;p_mA_LENGTH:B6;p_mA_BITMAP:BITSTRING) Group : PDU Type : PACKETSYSTEMINFORMATIONTYPE2 Derivation Path : Encoding Rule Name : Encoding Variation : Comments : If this needs to be padded to a set number of octets, a second copy needs to be produced for DCS/PCS because their frequency list and GPRS MA is different. values from TS 51.010-1 v.5.5.0 subclause 40.2.1.1.1			
Field Name	Field Value	Field Encoding	Comments
msgType	'110010'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		Normal Paging
pSI2_CHANGE_MARK	'01'B		
pSI2_INDEX	'010'B		
pSI2_COUNT	'010'B		Three instances of PSI2
cellIdentificationMask	'0'B		Cell Identification parameters not present
cellIdentification	OMIT		not present if cellIdentificationMask = 0
nonGPRSCellOptionsMask	'0'B		Non GPRS Cell Options not present
nonGPRSCellOptions	OMIT		not present if nonGPRSCellOptionsMask = 0
referenceFreqLists	c_ReferenceFreqLists('0001'B,p_rFL_Contents_Len,p_rFL_Contents)		
cellAllocation	c_CellAllocListNone		List 2
gPRS_MobileAllocations	c_GPRS_MobileAllocationLists('0010'B,p_mA_LENGTH,p_mA_BITMAP)		
pCCCH_Description	c_PCCCH_DescrListNone		
spareMask	'1'B		fields below are added in R99
compactControlMask	'0'B		not present if spareMask = 0
compactControlInfo	OMIT		not present if spareMask = 0 or compactControlMask = 0
additionalPSI_MsgMask	'0'B		not present if spareMask = 0
additionalPSI_Msg	OMIT		not present if spareMask = 0 or additionalPSI_MsgMask = 0
Detailed Comments : Reference : 3GPP TS 44.060 clause 11.2.19			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType3(p_StartFreq:B10; p_FreqDiffLen : B3; p_FreqDiff:BITSTRING) Group : PDU Type : PACKETSYSTEMINFORMATIONTYPE3 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
msgType	'110011'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		Normal Paging
pSI3_CHANGE_MARK	'00'B		Three 3bis messages
pSI3_BIS_COUNT	'0010'B		
servingCellParameters	c_ServingCellParams		
generalCellSelectionParameter	c_GenCellSel		
neighCellParameters	c_NeighCellParamsList(p_StartFreq, c_CellSelection_Cell1, p_FreqDiffLen, p_FreqDiff, c_CellSelection_Cell2)		
spareMask1	'1'B		fields below are add in R98
servingCell_LSA_Id_Info	c_LSA_ID_Info_OMIT		not present if spareMask1 = 0
ISA_ParameterMask	'0'B		not present if spareMask1 = 0
ISA_Parameter	OMIT		not present if spareMask1 = 0 or ISA_ParameterMask = 0
spareMask2	'1'B		fields below are added in R99
spareBits	'00'B		not present if spareMask1 = 0 or spareMask2 = 0
compactInfoMask	'0'B		not present if spareMask1 = 0 or spareMask2 = 0
compactInfo	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or compactInfoMask = 0
spareBit	'0'B		not present if spareMask1 = 0 or spareMask2 = 0
spareMask3	'0'B		fields below are added in R4
cCN_SupportDescriptionMask	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0
cCN_SupportDescription	OMIT		not present if cCN_SupportDescriptionMask = 0
spareMask4	'0'B		fields below are added in Release 5
cellBarQualify3	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0

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PDU Constraint Declaration			
Field Name	Field Value	Field Encoding	Comments
iuModeNeighCellParams	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
iuModeOnlyNeighCellParams	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType3bis(p_Index : B4; p_StartFreq:B10;p_FreqDiffLen:B3;p_FreqDiff:BITSTRING)			
Group :			
PDU Type : PACKETSYSTEMINFORMATIONTYPE3bis			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
msgType	'110100'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		Normal Paging
pSI3_CHANGE_MARK	'00'B		
pSI3_BIS_INDEX	p_Index		
pSI3_BIS_COUNT	'0010'B		
neighCellParameters	c_NeighCellParamsList(p_StartFreq,c_CellSelection_Cell3,p_FreqDiffLen,p_FreqDiff,c_CellSelection_Cell3)		
neighCellParameters2	c_NeighCellParams2List_OMIT		Neighbour Cell parameters 2 not present
spareMask1	'1'B		fields below are add in R98
ISA_ParameterMask	'0'B		not present if spareMask1 = 0
ISA_Parameter	OMIT		not present if spareMask1 = 0 or ISA_ParameterMask = 0
spareMask2	'1'B		fields below are added in R99
compactNeighCellParams	c_CompactNeighCellParams2List_OMIT		not present if spareMask1 = 0 or spareMask2 = 0
spareBit	'0'B		not present if spareMask1 = 0 or spareMask2 = 0
spareMask3	'0'B		fields below are added in R4
cCN_SupportDescriptionMask	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0
cCN_SupportDescription	OMIT		not present if cCN_SupportDescriptionMask = 0
spareMask4	'0'B		fields below are added in Release 5
iuModeNeighCellParams	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
iuModeOnlyNeighCellParams	OMIT		not present if spareMask1 = 0 or spareMask2 = 0 or spareMask3 = 0 or spareMask4 = 0
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_PacketSysInfoType5 Group : PDU Type : PACKETSYSTEMINFORMATIONTYPE5 Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
msgType	'110110'B		Message type
pAGE_MODE	INT_TO_BIT(tsc_NormalPaging,2)		
pSI5_CHANGE_MARK	'00'B		
pSI5_INDEX	'000'B		
pSI5_COUNT	'000'B		
nC_MeasMask	'1'B		
pSI5_NC_MeasParameter	c_NC_MeasParams		not present if nC_MeasMask = 0
extMeasMask	'1'B		
extMeasParameter	c_ExtMeasParams		not present if extMeasMask = 0
spareMask	'1'B		following fields are added in R99
eNH_ReportingParamMask	'0'B		not present if spareMask = 0
eNH_ReportingParam	–		not present if eNH_ReportingParamMask = 0 or spareMask = 0
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_ChReqOnePhase Group : PDU Type : CHANNELREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
estCauRandomRef	('011110??'B, '01111?0?'B, '01111??0'B)		establishment cause / random reference M
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_ActivateRB_TestMode Group : PDU Type : ACTIVATERBTESTMODE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000100'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_ActivateRB_TestModeCmpl Group : PDU Type : ACTIVATERBTESTMODECOMPLETE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000101'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_AuthFailAny Group : PDU Type : AUTHENTICATIONFAILURE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'??011100'B		
rejCau	?		
authFailParam	c_AuthFailParamAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_AuthReq(p_KeySeq: KeySeq; p RAND: MM_RAND; p_AUTN: AUTN) Group : PDU Type : AUTHENTICATIONREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'00010010'B		
spare4	'0000'B		
ciphKeySeqNum	c_CiphKeySeqNum(p_KeySeq)		
rAND	p_RAND		
aUTN	p_AUTN		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_AuthRspAnyExt Group : PDU Type : AUTHENTICATIONRESPONSE Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Any Authentication Response containing the Authentication Response Extension IE			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'??010100'B		
authRsp	?		
authRspExt	c_AuthRspExtAny		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_AuthRspAnyNoExt Group : PDU Type : AUTHENTICATIONRESPONSE Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Any Authentication Response NOT containing the Authentication Response Extension IE			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'??010100'B		
authRsp	?		
authRspExt	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_CloseUE_TestLoop(p_UE_TestLoopMode: UE_TestLoopMode; p_UE_TestLoopMode1LB_Setup: UE_TestLoopMode1LB_Setup) Group : PDU Type : CLOSEUETESTLOOP Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000000'B		
uE_TestLoopMode	p_UE_TestLoopMode		
uE_TestLoopMode1LB_Setup	p_UE_TestLoopMode1LB_Setup		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_CloseUE_TestLoopCmpl Group : PDU Type : CLOSEUETESTLOOPCOMPLETE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000001'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_DeactivateRB_TestMode Group : PDU Type : DEACTIVATERBTESTMODE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000110'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_DeactivateRB_TestModeCmpl Group : PDU Type : DEACTIVATERBTESTMODECOMPLETE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000111'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_LocUpdAcpTMSI (p_MCC: HEXSTRING; p_MNC: HEXSTRING; p_LAC: OCTETSTRING) Group : PDU Type : LOCATIONUPDATINGACCEPT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'00000010'B		
locAreald	c_LocAreald_v(p_MCC, p_MNC, p_LAC)		
mobileId	c_MobileIdTMSI_Def		
followOnProceed	'10100001'B		
cTSPerm	'10100010'B		
equivalentPLMN	—		
emergNumList	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_LocUpdAcpTMSI_E_PLMN (p_MCC: HEXSTRING; p_MNC: HEXSTRING; p_LAC: OCTETSTRING; p_ePLMN : PLMN_List) Group : PDU Type : LOCATIONUPDATINGACCEPT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'00000010'B		
locAreald	c_LocAreald_v(p_MCC, p_MNC, p_LAC)		
mobileId	c_MobileIdTMSI_Def		
followOnProceed	'10100001'B		
cTSPerm	'10100010'B		
equivalentPLMN	p_ePLMN		
emergNumList	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_OpenUE_TestLoop Group : PDU Type : OPENUETESTLOOP Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000010'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_OpenUE_TestLoopCmpl Group : PDU Type : OPENUETESTLOOPCOMPLETE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
tCProtocolDiscriminator	'1111'B		
msgType	'01000011'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_TMSI_ReallocCmpl Group : PDU Type : TMSIREALLOCATIONCOMPLETE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		Skip Indicator
mMProtocolDiscriminator	'0101'B		MM Protocol Discriminator
msgType	'??011011'B		Message Type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : c_TrD_Data (p_DataBitstring : BITSTRING) Group : PDU Type : TrD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
data	p_DataBitstring		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cb_LocUpdReqAny (p_KeySeq : KeySeq) Group : PDU Type : LOCATIONUPDATINGREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
mMProtocolDiscriminator	'0101'B		
msgType	'??001000'B		
ciphKeySeqNum	c_CiphKeySeqNum (p_KeySeq)		
locUpdType	c_LocUpdTypeAny		
locAreald	c_LocArealdAny_v		
mSClsmk1	c_MS_Clsmk1_Any		
mobileId	c_MobileIdAny_lv		
mSClsmk2	c_MS_Clsmk2_Any IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cbr_Deact_PDP_ContextReq_MO(p_SM_Cause: SM_Cause_v) Group : PDU Type : DEACTIVATEPDPCONTEXTREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Deactivate PDP Context Request n <=> ue 24.008, 9.5.14			
Field Name	Field Value	Field Encoding	Comments
ti	cr_TI_Any		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000110'B		
sM_Cause	p_SM_Cause		
tearDwnInd	cr_TearDwnInd_tv IF_PRESENT		
protocolConfOpts	cr_ProtoCfgOptAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cbr_RA_UpdReqAny (p_UpdateType : UpdateType_v; p_RAI : RAI_v; p_KeySeq : KeySeq) Group : PDU Type : ROUTINGAREAUPDATEREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001000'B		
gprsCiphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
updateType	p_UpdateType		
oldRAI	p_RAI		
msRadioAccessCap	c_MS_RadioAccessCapAny_lv		
oldPTMSI_Signature	c_PTMSI_SignatureAny IF_PRESENT		
readyTimer	cr_GPRS_TimerAny IF_PRESENT		
drxParameter	cr_DRXparamter_tv_Any IF_PRESENT		
tmsiStatus	c_TMSI_StatusAny IF_PRESENT		
ptmsi	c_MobileIdPTMSI_Any IF_PRESENT		
msnetworkcap	cr_MS_NetworkCap_tlv_Any IF_PRESENT		
pDP_ContextStatus	cr_PDP_ContextStatusAny IF_PRESENT		
pS_LCS_Capability	cr_PS_LCS_CapabilityAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_ActPDP_ContextReqMO_Any			
Group :			
PDU Type : ACTIVATEPDPCONTEXTREQUESTul			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Activate PDP Context Request ue -> n 3GPP 24.008, 9.5.1			
Field Name	Field Value	Field Encoding	Comments
ti	cr_TI_Any		This has to be set to Not Assigned by UE in UMTS domain.
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	cr_NSAPI_v		
requestedLLC_SAPI	cr_LLC_SAPI_v		
requestedQoS	cr_QualityOfService_Iv_Any		The GGSN logical name or the external packet data network logical name
pDP_Address	cr_StaticPDP_AddressAny		
accessPtName	cr_AccessPtNameAny IF_PRESENT		
protocolConfOpts	cr_ProtoCfgOptAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_AttachComplete Group : PDU Type : ATTACHCOMPLETE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000011'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_AttachReq (p_AttachType : AttachType; p_MobId : MS_Identity_lv; p_RAI : RAI_v; p_KeySeq : KeySeq) Group : PDU Type : ATTACHREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000001'B		
msNetworkCap	cr_MS_NetworkCapAss_lv		
gprsCiphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
attachType	p_AttachType		
drxParameter	c_DRX_ParamterAny		
ptmsiORimsi	p_MobId		
oldRAI	p_RAI		
msRadioAccessCap	c_MS_RadioAccessCapAny_lv		
oldPTMSI_Signature	c_PTMSI_SignatureAny IF_PRESENT		
readyTimer	c_GPRS_TimerAny IF_PRESENT		
tmsiStatus	c_TMSI_StatusAny IF_PRESENT		
pS_LCS_Capability	cr_PS_LCS_CapabilityAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_AuthAndCiphFailureAny Group : PDU Type : AUTHENTICATION_AND_CIPHERING_FAILURE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00011100'B		
gmmCause	?		
authFailurePar	c_AuthFailParamGmmAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_AuthAndCiphRsp(p_authRsp : AuthRsp_tv; p_authRspExt :AuthRspExt) Group : PDU Type : AUTHENTICATIONANDCIPHERINGRESPONSE Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00010011'B		
spare4	'0000'B		
acRefNo	?		Should be the one sent in the auth request
authRsp	p_authRsp		Authentication RES
imeisv	–		No IMEISV requested
authRspExt	p_authRspExt		Authentication paramter AUTN, a UMTS challenge is requested
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_DetachRequest_MO Group : PDU Type : DETACHREQUESTMO Derivation Path : Encoding Rule Name : Encoding Variation : Comments : 3GPP 24.008 V3.6.0 clause 9.4.5.2 (Mobile originating detach, GMM message)			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		Skip Indicator
gMMProtocolDiscriminator	tsc_GMM_PD		GMM Protocol Discriminator
msgType	'00000101'B		Message Type
spare4	'0000'B		M
detachType	c_DetachTypeReAttNotRequiredGPRS		M
ptmsi	c_MobileIdPTMSI_Any IF_PRESENT		O
ptmsiSignature	c_PTMSI_Signature_tlv(?) IF_PRESENT		O
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_ServiceRequest (p_sType : ServiceType_v; p_PTMSI : MS_Identity_Iv; p_KeySeq : KeySeq)			
Group :			
PDU Type : SERVICEREQUEST			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001100'B		
serviceType	p_sType		
ciphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
ptmsi	p_PTMSI		
pDP_ContextStatus	cr_PDP_ContextStatusAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_SetupMO_Any Group : PDU Type : SETUPul Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC SETUP n <- ue			
Field Name	Field Value	Field Encoding	Comments
ti	cr_TI_MO		
cC_ProtocolDiscriminator	'0011'B		
msgType	'??000101'B		
repeatInd	c_RepeatIndAny IF_PRESENT		
bcap1	cr_BcapAnyMO		
bcap2	cr_BcapAnyMO IF_PRESENT		
facility	cr_Facility_Any IF_PRESENT		
cgps	cr_CGPS_Any IF_PRESENT		
cdpn	cr_CDPN_Any		
cdps	cr_CDPS_Any IF_PRESENT		
llcRepeatInd	c_RepeatIndAny IF_PRESENT		
llc1	cr_LLC_Any IF_PRESENT		
llc2	cr_LLC_Any IF_PRESENT		
hlcRepeatInd	c_RepeatIndAny IF_PRESENT		
hlc1	cr_HLC_Any IF_PRESENT		
hlc2	cr_HLC_Any IF_PRESENT		
userUser	cr_UserUserAny IF_PRESENT		
sS_VersionInd	cr_SS_VersionIndAny IF_PRESENT		
cLIR_Suppression	'10100001'B IF_PRESENT		
cLIR_Invocation	'10100010'B IF_PRESENT		
cC_Capabilities	cr_CC_CapabilitiesAny IF_PRESENT		
facilityCCBS_AdvRecall	cr_FacilityAdvRecall IF_PRESENT		
facilityCCBS_RecallAlign	cr_FacilityAdvRecall IF_PRESENT		
streamId	cr_StreamIdAny IF_PRESENT		
supportedCodecs	cr_CodecListAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_StatusAny Group : PDU Type : STATUS_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : This constraint is used to receive an AM STATUS PDU containing the given SUFI list. Any padding included is ignored.			
Field Name	Field Value	Field Encoding	Comments
dC_Field	tsc_DC_ControlPDU		
type	tsc_PDU_TypeStatus		
superFieldsTx	OMIT		
superFieldsAndPadRx	?		
paddingTx	OMIT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_AttachAcc (p_attachRes : AttachResult; p_RAI : RAI_v; p_PTMSIsig : PTMSI_Signature; p_PTMSI : GMM_MS_IdentityPTMSI; p_TMSI : GMM_MS_Identity)			
Group :			
PDU Type : ATTACHACCEPT			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000010'B		
forceToStandby	c_ForceToStandby('000'B)		Force to standby not indicated
attachResult	p_attachRes		
periodicRAupdateTimer	c_GPRS_Timer_v('111'B, '00000'B)		Timer deactivated
radioPrioTOM8	c_RadioPriority2('000'B)		Lowest
radioPrioSMS	c_RadioPriority('100'B)		Lowest
rai	p_RAI		
ptmsiSignature	p_PTMSIsig		
negReadyTimer	–		
allocatedPTMSI	p_PTMSI		
msIdentity	p_TMSI		Only required in PS/CS combined procedures
gmmCause	–		
t3302Value	–		
cellNotification	–		
equivalentPLMN	–		
ntwFeatureSupport	–		
emergNumList	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_AttachAccE_PLMN (p_attachRes : AttachResult; p_RAI : RAI_v; p_PTMSIsig : PTMSI_Signature; p_PTMSI : GMM_MS_IdentityPTMSI; p_TMSI : GMM_MS_Identity; p_ePLMN : PLMN_List) Group : PDU Type : ATTACHACCEPT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000010'B		
forceToStandby	c_ForceToStandby('000'B)		Force to standby not indicated
attachResult	p_attachRes		
periodicRAupdateTimer	c_GPRS_Timer_v('111'B, '00000'B)		Timer deactivated
radioPrioTOM8	c_RadioPriority2('000'B)		Lowest
radioPrioSMS	c_RadioPriority('100'B)		Lowest
rai	p_RAI		
ptmsiSignature	p_PTMSIsig		
negReadyTimer	–		
allocatedPTMSI	p_PTMSI		
msIdentity	p_TMSI		Only required in PS/CS combined procedures
gmmCause	–		
t3302Value	–		
cellNotification	–		
equivalentPLMN	p_ePLMN		
ntwFeatureSupport	–		
emergNumList	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_AttachReq(p_cause : RejCau) Group : PDU Type : ATTACHREJECT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gmmProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000100'B		
gmmCause	p_cause		
t3302Value	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_AuthAndCiphReq(p_rand : AuthenticationParamterRAND; p_ckNo : CiphKeySeqNum_tv; p_authn : GMM_AUTN) Group : PDU Type : AUTHENTICATIONANDCIPHERINGREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gmmProtocolDiscriminator	tsc_GMM_PD		
msgType	'00010010'B		
imeisvReq	cb_IMEISV_Request('000'B)		IMEISV not requested
ciphAlgorithm	c_CiphAlgorithm(px_Cipher Alg)		GPRS encryption algorithm GEA/1
acRefNo	c_AC_RefNum3		Use any reference value
forceToStandby	c_ForceToStandby('000'B)		Force to standby not indicated
authRand	p_rand		Authentication paramter RAND
gprsCiphKeySeqNo	p_ckNo		GPRS ciphering key sequence number
aUTN	p_authn		Authentication paramter AUTN, an UMTS challenge is requested
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cs_RA_UpdAcc3_r5 (p_updateResult : UpdateResult_v; p_RAI : RAI_v; p_PTMSIsig : PTMSI_Signature; p_PTMSI : GMM_MS_IdentityPTMSI; p_TMSI : GMM_MS_Identity; p_PDP_ContextStatus : PDP_ContextStatus) Group : PDU Type : ROUTINGAREAUPDATEACCEPT Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001001'B		
updateResult	p_updateResult		
forceToStandby	c_ForceToStandby('000'B)		Force to standby not indicated
periodicRAupdateTimer	c_GPRS_Timer_v('010'B, '01001'B)		T3312 (default value 54 minutes or 9 decihours, see 3GPP 24.008 clause 11.2.2)
rai	p_RAI		
ptmsiSignature	p_PTMSIsig		
allocatedPTMSI	p_PTMSI		
msIdentity	p_TMSI		
listNPDUnumbers	–		
readyTimer	–		
gmmCause	–		
t3302Value	–		
cellNotification	–		
equivalentPLMN	–		
pDP_ContextStatus	p_PDP_ContextStatus		
ntwFeatureSupport	–		
emergNumList	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cbr_RA_UpdReqAny_r5 (p_UpdateType : UpdateType_v; p_RAI : RAI_v; p_KeySeq : KeySeq) Group : PDU Type : ROUTINGAREAUPDATEREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001000'B		
gprsCiphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
updateType	p_UpdateType		
oldRAI	p_RAI		
msRadioAccessCap	c_MS_RadioAccessCapAny_lv		
oldPTMSI_Signature	c_PTMSI_SignatureAny IF_PRESENT		
readyTimer	cr_GPRS_TimerAny IF_PRESENT		
drxParameter	cr_DRXparamter_tv_Any IF_PRESENT		
tmsiStatus	c_TMSI_StatusAny IF_PRESENT		
ptmsi	c_MobileIdPTMSI_Any IF_PRESENT		
msnetworkcap	cr_MS_NetworkCap_tlv_Any IF_PRESENT		
pDP_ContextStatus	cr_PDP_ContextStatusAny		
pS_LCS_Capability	cr_PS_LCS_CapabilityAny IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : cr_ServiceRequest_r5 (p_sType : ServiceType_v; p_PTMSI : MS_Identity_Iv; p_KeySeq : KeySeq) Group : PDU Type : SERVICEREQUEST Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001100'B		
serviceType	p_sType		
ciphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
ptmsi	p_PTMSI		
pDP_ContextStatus	cr_PDP_ContextStatusAny		
Detailed Comments :			

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_TrChReconf64k_PS_HSENH (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti: RRC_TransactionIdentifier; p_Act_time:ActivationTime ; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 section 9: Transport Channel Reconfiguration for "Packet to CELL_DCH from CELL_DCH in PS" (condition A3) mapped on the r5 branch.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message transportChannelReconfiguration : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { transportChannelReconfiguration_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Act_time, new_U_RNTI OMIT, new_C_RNTI OMIT, new_H_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k_r4, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, -- CPCH_SetID addReconfTransChDRAC_Info OMIT -- DRAC_StaticInformationList }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCH_PS_HSENH, frequencyInfo p_FreqInfo, --FrequencyInfo maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : (cb_UL_DPCH_Info_r5 (tsc_UL_DPDCH_SF_64k_PS, pl0_96 , p_UL_ScramblingCode)), modeSpecificPhysChInfo fdd: { dl_PDSCH_Information OMIT -- DL_PDSCH_Information }, dl_HSPDSCH_Information OMIT, dl_CommonInformation c_DL_CommonInformationRB_SetUp_r5 (tsc_DL_DPCH1_SFP_64k_PS) , dl_InformationPerRL_List c_DL_InformationPerRL_r5 (p_PrimaryScramblingCode , tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH_ScrC_4) --DL_InformationPerRL_List } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_RB_ReconfigDCH_ToFACH_HS_Stop (p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_NewC_RNTI : C_RNTI) Group : PDU Type : DL_DCCH_Message Derivation Path : cbs_108_RB_ReconfigDCH_ToFACH_r5. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.rb_InformationReconfigList BY c_RB_InfoReconfigListDCH_ToFACH_HSENH, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.dl_DeletedTransChInfoList BY c_DL_DeletedTransChInfoListHS_Stop, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. maxAllowedUL_TX_Power BY OMIT	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_RB_ReconfigHS_Continue (p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_Activetime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode) Group : PDU Type : DL_DCCH_Message Derivation Path : cbs_108_RB_Reconfig64k_PS_r5. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.rb_InformationReconfigList.[4] BY c_RB_InfoReconfig25_HSENH, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.ul_CommonTransChInfo BY OMIT, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.ul_AddReconfTransChInfoList BY OMIT, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.dl_CommonTransChInfo BY OMIT, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.dl_AddReconfTransChInfoList BY OMIT, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. ul_ChannelRequirement BY OMIT, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. dl_CommonInformation BY OMIT, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. dl_InformationPerRL_List BY c_DL_InfoPerRL_SecScrm_HS (p_PrimaryScramblingCode, tsc_Sfc256_C0, tsc_DL_DPCH_ScrC_2)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_ReconfigHS_Stop (<p> p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_Activetime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode) </p>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_Reconfig64k_PS_r5.
Encoding Rule Name	:
Encoding Variation	:
Comments	: This message will trigger the UE to stop the reception of HS-DSCH.
Constraint Value	
REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.rb_InformationReconfigList.[4] BY c_RB_InfoReconfig25_HSENH, REPLACE message.radioBearerReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerReconfiguration_r5. specificationMode.complete.dl_AddReconfTransChInfoList BY c_DL_AddReconfTransChInfoListHS_Stop	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromDCH_8_2_1_29 (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </p>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY {c_RAB_InfoSetupDCH_PS_HS_A10 (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH)}, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_CommonTransCh Info BY c_UL_CommTrChInfo_AM0To11_64k_restriction_HSENH (c_PowerOffsetInfoHigher64k), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5. ul_ChannelRequirement. ul_DPCH_Info BY cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_AddReconfTrans ChInfoList BY { c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_CommonInforma tion BY cd_DL_CommonInformationDCH_DPCH_Offset_HS (tsc_DL_DPCH1_SFP_SRB_3_4k)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromDCH_8_2_4_36 (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_ActiveTime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </p>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Setup message to set up an HSDPA PS RAB with one Radio Bearer Multiplexing Option: DCH / HS-DSCH. The UL DCH configuration follows the 384kbps configuration given in 34.108 clause 6.10.2.4.1.34 (10ms TTI alternative).
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY { cd_RAB_InfoSetupDCH_PS_HS_A10_NoPDCP (useT315, p_RAB_Id, c_RLC_InfoAM_HS_Cfg2) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_CommonTransCh Info BY c_UL_CommTrChInfo_AM0To11_r4 (c_PowerOffsetInfoHigher64k_Cfg2), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_AddReconfTrans ChInfoList BY { c_DL_AddReconfTransChInfoSameUL_HSEnh (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSEnh (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.maxAllowedUL_TX_Power BY 24, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_ChannelRequirement.ul_DPCH_Info BY cd_UL_DPCH_InfoACK_6_HSEnh (tsc_Sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_HSPDSCH_Information BY c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_MeasFeedbackInfoCfg2)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromDCH_NoHS (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: To establish a 64kbps PS RAB on DCH / DCH while also providing DCH / HS-DSCH RB mapping.
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY { cd_RAB_InfoSetupDCH_PS_HS_NoPDCP (useT315, p_RAB_Id, c_RLC_InfoAM_Def_DCH_HSENH) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_CommonTransCh Info BY c_UL_CommTrChInfoDCH_PS_64k_r4, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_AddReconfTrans ChInfoList BY c_UL_AddReconfTransChInfoListDCH_PS_64k, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_CommonTransC hInfo BY c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_AddReconfTrans ChInfoList BY { c_DL_AddReconfTransChInfo_r5 (tsc_DL_DCH1, tsc_UL_DCH1), c_DL_AddReconfTransChInfo_r5 (tsc_DL_DCH5, tsc_UL_DCH5) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_ChannelRequirem ent.ul_DPCH_Info BY cb_UL_DPCH_Info_r5 (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_HSPDSCH_Info rmation BY OMIT, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_CommonInforma tion BY c_DL_CommonInformationRB_SetUp_r5 (tsc_DL_DPCH1_SFP_64k_PS), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_InformationPerR L_List BY c_DL_InformationPerRL_r5 (p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH1_2ndScrC)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromFACH_8_2_1_31 (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </p>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromFACH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Setup message to go from CELL_FACH to CELL_DCH state & to set up an HSDPA PS RAB with one Radio Bearer Multiplexing Option: DCH / HS-DSCH. The UL DCH configuration follows the 384kbps configuration given in 34.108 clause 6.10.2.4.1.34 (10ms TTI alternative) restricted to 64kbps.
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY { cd_RAB_InfoSetupDCH_PS_HS_A10_NoPDCP (useT315, p_RAB_Id, c_RLC_InfoAM_HS_Cfg2) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_CommonTransCh Info BY c_UL_CommTrChInfo_AM0To11_64k_restriction_HSENH (c_PowerOffsetInfoHigher64k_Cfg2), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.maxAllowedUL_TX_ Power BY 24, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_ChannelRequirem ent.ul_DPCH_Info BY cd_UL_DPCH_InfoACK_6_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_HSPDSCH_Info rmation BY c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_MeasFeedbackInfoCfg2)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromFACH_8_2_1_32 (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromFACH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Setup message to go from CELL_FACH to CELL_DCH state & to set up an HSDPA PS RAB with three Radio Bearer Multiplexing Options: DCH / HS-DSCH, DCH / DCH & RACH / FACH. The UL DCH configuration follows the 384kbps configuration given in 34.108 clause 6.10.2.4.1.34 (10ms TTI alternative) restricted to 64kbps.
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY { cd_RAB_InfoSetupDCH_PS_HS_NoPDCP (useT315, p_RAB_Id, c_RLC_InfoAM_HS_Cfg2) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_CommonTransCh Info BY c_UL_CommTrChInfo_AMoTo11_64k_restriction_HSEnh (c_PowerOffsetInfoHigher64k_Cfg2), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_AddReconfTrans ChInfoList BY c_DL_AddReconfTransChInfoList_2DCH_HS_PS_HSEnh (p_HSDPA_ConfigType.numberOfProcesses), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.maxAllowedUL_TX_ Power BY 24, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_ChannelRequirem ent.ul_DPCH_Info BY cd_UL_DPCH_InfoACK_6_HSEnh (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_HSPDSCH_Info rmation BY c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_MeasFeedbackInfoCfg2)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_RB_SetUpHS_ToDCH (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_ActiveTime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </p> Group : PDU Type : DL_DCCH_Message Derivation Path : cbs_108_RB_SetUpHS_FromDCH. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_CommonInformation BY cd_DL_CommonInformationDCH_DPCH_Offset_Diff_HSEnh (tsc_DL_DPCH1_SFP_SRB_3_4k), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_InformationPerRL_List BY c_DL_InfoPerRL_2_HSEnh (p_PrimaryScramblingCode , tsc_Sfc256_C0, tsc_DL_DPCH1_2ndScrC)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_TrChReconf_HS_UL_32k_HSENH (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti: RRC_TransactionIdentifier; p_Act_time:ActivationTime ; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode) </p>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_TrChReconf64k_PS_HSENH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: To limit the UL transmission rate to 32kbps while keeping a 10ms TTI.
Constraint Value	
REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.ul_CommonTransChInfo BY c_UL_CommTrChInfo_AM0To11_32k_restriction_HSENH (c_PowerOffsetInfoBelow64k), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.ul_AddReconfTransChInfoList BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_CommonTransChInfo BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_AddReconfTransChInfoList BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.ul_ChannelRequirement.ul_DPCH_Info BY c_UL_DPCH_InfoACK_Ack6_HSENH (tsc_Sf32, pl0_88, p_UL_ScramblingCode), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_CommonInformation BY c_DL_CommonInformationRB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB_3_4k), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_InformationPerRL_List BY OMIT	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_TrChReconf_HS_UL_384k_HSENH (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti: RRC_TransactionIdentifier; p_Act_time:ActivationTime ; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_TrChReconf64k_PS_HSENH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: To set the UL transmission rate to 384kbps while keeping a 10ms TTI.
Constraint Value	
REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.ul_CommonTransChInfo BY c_UL_CommTrChInfo_AM0To11_r4 (c_PowerOffsetInfoHigher64k), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.ul_AddReconfTransChInfoList BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.dl_CommonTransChInfo BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.dl_AddReconfTransChInfoList BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.ul_ChannelRequirement.ul_DPCH_Info BY c_UL_DPCH_InfoACK_Ack6_HSENH (tsc_Sf4, pl0_72, p_UL_ScramblingCode), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.dl_CommonInformation BY c_DL_CommonInformationRB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB_3_4k), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfi guration_r5.dl_InformationPerRL_List BY OMIT	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_TrChReconf_HS_UL_64k_HSENH (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti: RRC_TransactionIdentifier; p_Act_time:ActivationTime ; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_TrChReconf64k_PS_HSENH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: To limit the UL transmission rate to 64kbps while keeping a 10ms TTI.
Constraint Value	
REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.ul_CommonTransChInfo BY c_UL_CommTrChInfo_AM0To11_64k_restriction_HSENH (c_PowerOffsetInfoHigher64k), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.ul_AddReconfTransChInfoList BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_CommonTransChInfo BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_AddReconfTransChInfoList BY OMIT, REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.ul_ChannelRequirement.ul_DPCH_Info BY c_UL_DPCH_InfoACK_Ack6_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_CommonInformation BY c_DL_CommonInformationRB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB_3_4k), REPLACE message.transportChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.transportChannelReconfiguration_r5.dl_InformationPerRL_List BY OMIT	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name : cs_RB_ReconfigFACH_ToDCH_HS_StartInterFreq (<p> p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_Ti : RRC_TransactionIdentifier ; p_HRNTI : H_RNTI ; p_FreqInfo : FrequencyInfo ; p_PrimaryScramblingCode : PrimaryScramblingCode ; p_UL_ScramblingCode : UL_ScramblingCode ; p_HSDPA_ConfigType : HSDPA_ConfigType) </p> Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerReconfiguration : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerReconfiguration_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI OMIT, new_H_RNTI p_HRNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, specificationMode complete : { rab_InformationReconfigList OMIT, rb_InformationReconfigList c_RB_InfoReconfigListFACH_ToDCH_HSENH, rb_InformationAffectedList OMIT, rb_PDCPContextRelocationList OMIT, ul_CommonTransChInfo OMIT, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList OMIT, dl_CommonTransChInfo OMIT, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList cb_DL_AddReconfTransChInfoListHS }, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), modeSpecificPhysChInfo fdd : { }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, cd_MeasFeedbackInfoCfg3 (p_HSDPA_ConfigType), dl_CommonInformation cd_DL_CommonInformationDCH_DPCH_Offset_HS (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_InformationPerRL_List c_DL_InfoPerRL_SecScrm_HS (p_PrimaryScramblingCode, tsc_Sfc256_C0, tsc_DL_DPCH1_2ndScrc) } } } } </pre>	

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ASN.1 PDU Constraint Declaration
Detailed Comments :

ASN.1 PDU Constraint Declaration

Constraint Name : cs_RB_ReconfigHS_Start (

p_IntegrityInfo : IntegrityCheckInfo;

p_RRC_Ti : RRC_TransactionIdentifier;

p_Activetime : ActivationTime;

p_HRNTI : H_RNTI ;

p_FreqInfo : FrequencyInfo;

p_PrimaryScramblingCode : PrimaryScramblingCode;

p_UL_ScramblingCode : UL_ScramblingCode

)

Group :

PDU Type : DL_DCCH_Message

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : This message will trigger the UE to resume the reception of HS-DSCH.
The UL configuration used is for 384kbps with TTI=10ms.

Constraint Value

```
{
  integrityCheckInfo p_IntegrityInfo,
  message radioBearerReconfiguration : later_than_r3 :
  {
    rrc_TransactionIdentifier p_RRC_Ti,
    criticalExtensions criticalExtensions : r5 :
    {
      radioBearerReconfiguration_r5
      {
        integrityProtectionModelInfo OMIT,
        cipheringModelInfo OMIT,
        activationTime p_Activetime,
        new_U_RNTI OMIT,
        new_C_RNTI OMIT,
        new_H_RNTI p_HRNTI,
        rrc_StateIndicator cell_DCH,
        utran_DRX_CycleLengthCoeff OMIT,
        cn_InformationInfo OMIT,
        ura_Identity OMIT,
        specificationMode complete :
        {
          rab_InformationReconfigList OMIT,
          rb_InformationReconfigList { cd_RB_InfoReconfig25_HSENH },
          rb_InformationAffectedList OMIT,
          rb_PDCPContextRelocationList OMIT,
          ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_384k_HSENH,
          ul_deletedTransChInfoList OMIT,
          ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_384k,
          dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 ( tsc_TFCS_Cmpl0_1_Rx),
          dl_DeletedTransChInfoList c_DL_DeletedTransChInfoListDCH_Stop_HSENH ( tsc_DL_DCH1 ),
          dl_AddReconfTransChInfoList { c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (OMIT,
c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) }
        },
        frequencyInfo p_FreqInfo,
        maxAllowedUL_TX_Power tsc_MaxAllowPwr,
        ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info_r5 ( tsc_Sf4, pl0_72, p_UL_ScramblingCode ),
        modeSpecificPhysChInfo fdd : { },
        dl_HSPDSCH_Information OMIT,
        dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k),
        dl_InformationPerRL_List c_DL_InfoPerRL_SecScrm_HS (p_PrimaryScramblingCode, tsc_Sfc256_C0,
tsc_DL_DPCH_ScrC_2)
      }
    }
  }
}
```

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ASN.1 PDU Constraint Declaration
Detailed Comments :

ASN.1 PDU Constraint Declaration	
Constraint Name : cs_RB_SetUpHS_FromDCH_SHO (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_ScrambCode1, p_ScrambCode2: PrimaryScramblingCode ; p_NumOfProcess : INTEGER ; p_Tm : Tcell ; p_HSDPA_ConfigType : HSDPA_ConfigType) </p>	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerSetup_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, ura_Identity OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList {c_RAB_InfoSetupDCH_PS_HS (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH)}, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_384k_HSENH, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_384k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoList_2DCH_HS_PS_HSENH (p_NumOfProcess), frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_Sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_InformationPerRL_List c_DL_InfoPerRL_HS_SHO (p_ScrambCode1, p_ScrambCode2, tsc_Sfc256_C0, tsc_DL_DPCH1_2ndScrC, p_Tm) } } } } </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre> }, radioBearerSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
<p>Constraint Name : cds_108_RB_SetUpHS_FromDCH_MacPDUsSize (</p> <pre> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </pre> <p>Group :</p> <p>PDU Type : DL_DCCH_Message</p> <p>Derivation Path : cbs_108_RB_SetUpHS_FromDCH.</p> <p>Encoding Rule Name :</p> <p>Encoding Variation :</p> <p>Comments :</p>	
Constraint Value	
<p>REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.rab_InformationSetupList.[0] BY c_RAB_InfoSetupDCH_PS_HS (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH_656), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.dl_AddReconfTransChInfoList.[2] BY c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue (656))))</p>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_108_RB_SetUpHS_FromDCH_UL_64k_MacPDUSize(p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : PDU Type : DL_DCCH_Message Derivation Path : cbs_108_RB_SetUpHS_FromDCH. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.rab_InformationSetupList.[0] BY c_RAB_InfoSetupDCH_PS_HS (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH_656), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5. ul_CommonTransChInfo BY c_UL_CommTrChInfoDCH_PS_64k_r4, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_AddReconfTransChInfoList BY c_UL_AddReconfTransChInfoListDCH_PS_64k, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.dl_AddReconfTransChInfoList.[2] BY c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue (656)))), REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_ChannelRequirement BY ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_CellUpdateCnfDCCH_RLC_ReEst_HSENH (<p> p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_Tl: RRC_TransactionIdentifier; p_U_RNTI : U_RNTI; p_C_RNTI: C_RNTI; p_H_RNTI: H_RNTI; p_State_Ind: RRC_StateIndicator; p_FreqInfo : FrequencyInfo; p_UL_ChannelRequirement : UL_ChannelRequirement_r5; p_DL_CommonInformation : DL_CommonInformation_r5 ; p_DL_HSPDSCH_Information: DL_HSPDSCH_Information; p_DL_InformationPerRL_List : DL_InformationPerRL_List_r5) </p> Group : PDU Type : DL_DCCH_Message Derivation Path : cbs_108_CellUpdateCnfDCCH_HSENH. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.cellUpdateConfirm.later_than_r3.criticalExtensions.criticalExtensions.r5.cellUpdateConfirm_r5.rlc_Re_establishI ndicatorRb2_3or4 BY TRUE, REPLACE message.cellUpdateConfirm.later_than_r3.criticalExtensions.criticalExtensions.r5.cellUpdateConfirm_r5.rb_InformationRe configList BY c_RB_InfoReconfigList_AM, REPLACE message.cellUpdateConfirm.later_than_r3.criticalExtensions.criticalExtensions.r5.cellUpdateConfirm_r5.dl_DeletedTransC hInfoList BY c_DL_DelTransCHInfo_HS	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_PhyChReconfHSDSCH_Mod_384K (p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_ActTime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode ; p_HSDPA_ConfigType : HSDPA_ConfigType)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	cbs_108_PhyChReconf64k_PS_ToDCH_HSENH.
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.new_H_RNTI BY tsc_NewHRNTI2, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.maxAllowedUL_TX_Power BY OMIT, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.ul_ChannelRequirement BY ul_DPCH_Info : cd_UL_DPCH_InfoACK_6_HSENH (tsc_Sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_HSPDSCH_Information BY c_DL_HSPDSCH_Information (OMIT, c_Measurement_Feedback_Info_Rep2(p_HSDPA_ConfigType)), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.CommonInformation BY OMIT, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_InformationPerRL_List BY OMIT	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_PhyChReconf_FreqChange_384K (p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_ActTime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : PDU Type : DL_DCCH_Message Derivation Path : cbs_108_PhyChReconf64k_PS_ToDCH_HSENH. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.new_H_RNTI BY tsc_NewHRNTI2, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.ul_ChannelRequirement BY ul_DPCH_Info : c_UL_DPCH_InfoACK_PowMod_HSENH(tsc_Sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_HSPDSCH_Information BY c_DL_HSPDSCH_Information (c_HS_SCCH_Info_CH_Code1, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_CommonInformation BY cd_DL_CommonInformationDCH_DPCH_Offset_Diff_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_InformationPerRL_List BY c_DL_InfoPerRL_HSENH (p_PrimScramblingCode, tsc_Sfc256, OMIT)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_PhyChReconfHSDSCH_Mod_64K (p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_ActTime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	cbs_108_PhyChReconf64k_PS_ToDCH_HSENH.
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.new_H_RNTI BY tsc_NewHRNTI2, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.maxAllowedUL_TX_Power BY OMIT, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.ul_ChannelRequirement BY ul_DPCH_Info : cd_UL_DPCH_InfoACK_6_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_HSPDSCH_Information BY c_DL_HSPDSCH_Information (OMIT, c_Measurement_Feedback_Info_Rep2 (p_HSDPA_ConfigType)), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_CommonInformation BY OMIT, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_InformationPerRL_List BY OMIT	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_PhyChReconf_FreqChange_64K (p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_ActTime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	cbs_108_PhyChReconf64k_PS_ToDCH_HSENH.
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.new_H_RNTI BY tsc_NewHRNTI2, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.ul_ChannelRequirement BY ul_DPCH_Info : c_UL_DPCH_InfoACK_PowMod_HSENH(tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_HSPDSCH_Information BY c_DL_HSPDSCH_Information (c_HS_SCCH_Info_CH_Code1, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_CommonInformation BY cd_DL_CommonInformationDCH_DPCH_Offset_Diff_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_InformationPerRL_List BY c_DL_InfoPerRL_HSENH (p_PrimScramblingCode, tsc_Sfc256, OMIT)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cs_CellUpdateCnfDCCH_HSENH (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_Tl: RRC_TransactionIdentifier; p_U_RNTI : U_RNTI; p_C_RNTI: C_RNTI; p_H_RNTI: H_RNTI; p_State_Ind: RRC_StateIndicator; p_FreqInfo : FrequencyInfo; p_ULCommonTransChInfo : UL_CommonTransChInfo_r4; p_DL_CommonTransChInfo : DL_CommonTransChInfo_r4 ; p_DL_AddReconfTransChInfo : DL_AddReconfTransChInfoList_r5; p_UL_ChannelRequirement : UL_ChannelRequirement_r5; p_DL_CommonInformation : DL_CommonInformation_r5 ; p_DL_HSPDSCH_Information: DL_HSPDSCH_Information; p_DL_InformationPerRL_List : DL_InformationPerRL_List_r5) Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityCheckInfo, message cellUpdateConfirm : later_than_r3: { rrc_TransactionIdentifier p_RRC_Tl, criticalExtensions criticalExtensions : r5: { cellUpdateConfirm_r5 { --CellUpdateConfirm_r5_IEs integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI p_U_RNTI , new_C_RNTI p_C_RNTI, new_H_RNTI p_H_RNTI, rrc_StateIndicator p_State_Ind, utran_DRX_CycleLengthCoeff OMIT, rlc_Re_establishIndicatorRb2_3or4 FALSE, rlc_Re_establishIndicatorRb5orAbove FALSE, cn_InformationInfo OMIT, ura_Identity OMIT, rb_InformationReleaseList OMIT, rb_InformationReconfigList OMIT, rb_InformationAffectedList OMIT, ul_CommonTransChInfo p_ULCommonTransChInfo, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList OMIT, modeSpecificTransChInfo fdd: { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo p_DL_CommonTransChInfo, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList p_DL_AddReconfTransChInfo, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement p_UL_ChannelRequirement, modeSpecificPhysChInfo fdd : </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre> { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information p_DL_HSPDSCH_Information, dl_CommonInformation p_DL_CommonInformation , dl_InformationPerRL_List p_DL_InformationPerRL_List } } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_PhyChReconfDCH_ToCell2_PCH_HSENH(p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_NewC_RNTI : C_RNTI)	
Group :	
PDU Type : DL_DCCH_Message	
Derivation Path : cbs_108_PhyChReconf64k_PS_DCH_ToFACH_r5.	
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.rrc_StateIndicator BY cell_PCH, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.utran_DRX_CycleLengthCoeff BY 3, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.dl_InformationPerRL_List BY c_DL_InfoPerRL_Cpich_Info_HSENH (p_PrimScramblingCode)	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cdr_CellUpdateAny_r5 (p_U_RNTI : U_RNTI; p_CellUpdate_Cause : CellUpdateCause) Group : PDU Type : UL_CCCH_Message Derivation Path : cbr_108_CellUpdate_r5. Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
REPLACE message.cellUpdate.am_RLC_ErrorIndicationRb2_3or4 BY ?, REPLACE message.cellUpdate.am_RLC_ErrorIndicationRb5orAbove BY ?, REPLACE message.cellUpdate.failureCause BY *, REPLACE message.cellUpdate.rb_timer_indicator BY *	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_RB_SetUpHS_FromDCH_384kUL_LoopBack(p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_RLC_Info : RLC_Info_r5;p_MAC_Queue :MAC_hs_AddReconfQueue; p_SecondaryScramblingCode : SecondaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9. for 384 UL
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerSetup_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, ura_Identity OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList {c_RAB_InfoSetupDCH_PS_HS_NoPDCP (useT315, p_RAB_Id, p_RLC_Info)}, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_384k_HSENH, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_384k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoList_2DCH_HS_PS_2Size_HSENH } } } (p_HSDPA_ConfigType.numberOfWorkProcesses,p_MAC_Queue), frequencyInfo p_FreqInfo , maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_Sf4, pl0_64, p_UL_ScramblingCode,p_HSDPA_ConfigType), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre> dl_InformationPerRL_List c_DL_InfoPerRL_HSENH (p_PrimScramblingCode , tsc_Sfc256_C0, p_SecondaryScramblingCode) }, radioBearerSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_RB_SetUpHS_FromDCH_UL_64k_LoopBack (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_RLC_Info : RLC_Info_r5; p_MAC_Queue : MAC_hs_AddReconfQueue; p_SecondaryScramblingCode : SecondaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType </p>)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9. for 384 UL
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerSetup_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, ura_Identity OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList {c_RAB_InfoSetupDCH_PS_HS_NoPDCP (useT315, p_RAB_Id, p_RLC_Info)}, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k_r4, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoList_2DCH_HS_PS_2Size_HSENH } } } (p_HSDPA_ConfigType.numberOfProcesses,p_MAC_Queue), frequencyInfo p_FreqInfo , maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH(tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre>dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_InformationPerRL_List c_DL_InfoPerRL_HSENH (p_PrimScramblingCode , tsc_Sfc256_C0, p_SecondaryScramblingCode) }, radioBearerSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_RB_Rel_HS_DCH_PS_NoDL_DCH1 (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_TI: RRC_TransactionIdentifier; p_ActivationTime : ActivationTime; p_H_RNTI : H_RNTI; p_Freqnfo : FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode; p_SecondaryScramblingCode : SecondaryScramblingCode)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Release message defined in 34.108 section 9.1.1 under condition A9.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityCheckInfo, message radioBearerRelease : later_than_r3 : { rrc_TransactionIdentifier p_RRC_TI, criticalExtensions criticalExtensions : r5 : { radioBearerRelease_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_ActivationTime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, -- Question: nothing in 34.108 rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, rab_InformationReconfigList OMIT, rb_InformationReleaseList c_RB_InformationRel25, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCCH_13_6k_r4, ul_deletedTransChInfoList c_UL_DeletedTransChInfo (tsc_UL_DCH1), ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCCH_13_6k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL_r4, dl_DeletedTransChInfoList c_DL_DeletedTransChInfo_HS(0), dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfo2ListDCCH_r5, frequencyInfo p_Freqnfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : c_UL_DPCH_13_6_StandAlone_r5 (p_UL_ScramblingCode), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information OMIT, dl_CommonInformation c_DL_CommonInformationRB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB), dl_InformationPerRL_List c_DL_InformationPerRL_r5 (p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_SRB, p_SecondaryScramblingCode) }, radioBearerRelease_r5_add_ext OMIT, } } } </pre>	

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ASN.1 PDU Constraint Declaration	
	Constraint Value
	<pre> nonCriticalExtensions OMIT } } } </pre>
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_108_RB_SetUpHS_FromDCH_UL_64k_LoopBack_2PDUSize (<pre> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_ActiveTime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </pre>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9. But uses 64 K uplink
	Constraint Value
	<pre> REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.rab_InformationSetupList BY {c_RAB_InfoSetupDCH_PS_MAC_HS_NoPDCP (useT315, p_RAB_Id, c_RLC_InfoUM_Def_HSENH)}, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5. ul_CommonTransChInfo BY c_UL_CommTrChInfoDCH_PS_64k_r4, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_AddReconfTransChInfoList BY c_UL_AddReconfTransChInfoListDCH_PS_64k, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.dl_AddReconfTransChInfoList BY { c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberProcesses), c_AddOrReconfMAC_dFlow (cd_MAC_hs_AddReconfQueue136_328_Special))) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_ChannelRequirement BY ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode,p_HSDPA_ConfigType) </pre>
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_PhysicalChannelReconfiguration_Mac_H_Reset (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_SecondaryScramblingCode : SecondaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType </p>)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9. But uses 64 K uplink
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message physicalChannelReconfiguration : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { physicalChannelReconfiguration_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, dl_CounterSynchronisationInfo OMIT, frequencyInfo p_FreqInfo , maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType), modeSpecificInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_InformationPerRL_List c_DL_InfoPerRL_HSENH (p_PrimaryScramblingCode , tsc_Sfc256_C0,p_SecondaryScramblingCode) } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_108_RB_SetUpHS_FromDCH_UL_64k_LoopBack_AM (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType </p>)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9. But uses 64 K uplink
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.rab_InformationSetupList BY {c_RAB_InfoSetupDCH_PS_MAC_HS_NoPDCP (useT315, p_RAB_Id, cd_RLC_InfoAM_Def_NoTPoll_NoTPollProh_HSENH)}, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5. ul_CommonTransChInfo BY c_UL_CommTrChInfoDCH_PS_64k_r4, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_AddReconfTransChInfoList BY c_UL_AddReconfTransChInfoListDCH_PS_64k, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.dl_AddReconfTransChInfoList BY { c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (cd_MAC_hs_AddReconfQueue336_Special))) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_ChannelRequirement BY ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_TransportFormatCombCtrl (p_IntegrityCheckInfo : IntegrityCheckInfo ; p_RRC_Ti : RRC_TransactionIdentifier; p_TFC : TFC_Subset)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Transport Format Combination Control message used to restrict the UL TFCIs
Constraint Value	
<pre>{ integrityCheckInfo p_IntegrityCheckInfo , message transportFormatCombinationControl : { rrc_TransactionIdentifier p_RRC_Ti, modeSpecificInfo fdd : NULL, dpch_TFCS_InUplink p_TFC, tfc_ControlDuration OMIT, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_ActSetUpdateCmpl (p_RRC_TI : RRC_TransactionIdentifier)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in 34.123-1 annex A
Constraint Value	
<pre>{ integrityCheckInfo *, message activeSetUpdateComplete: { --ActiveSetUpdateComplete rrc_TransactionIdentifier p_RRC_TI , laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_TrChReconfCmpl(p_RRC_TI : RRC_TransactionIdentifier; p_Count_C_ActivationTime : ActivationTime)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.123-1 annex A
Constraint Value	
<pre>{ integrityCheckInfo *, message transportChannelReconfigurationComplete : { rrc_TransactionIdentifier p_RRC_TI , ul_IntegProtActivationInfo *, ul_TimingAdvance *, count_C_ActivationTime p_Count_C_ActivationTime, rb_UL_CiphActivationTimeInfo *, ul_CounterSynchronisationInfo OMIT, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_URA_Update (p_U_RNTI : U_RNTI; p_Cellupdate_cause: URA_UpdateCause; p_ErrInd: ProtocolErrorIndicatorWithMoreInfo)
Group	:
PDU Type	: UL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo *, message uraUpdate: { --URA_Update u_RNTI p_U_RNTI , ura_UpdateCause p_Cellupdate_cause, protocolErrorIndicator p_ErrInd, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_PS_PagingType1_URNTI(p_U_RNTI : U_RNTI)
Group	:
PDU Type	: PCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ message pagingType1: { --PagingType1 pagingRecordList { utran_Identity: { u_RNTI p_U_RNTI , cn_OriginatedPage_connectedMode_UE OMIT } }, bcch_ModificationInfo OMIT, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_PagingType1_UTRAN (p_U_RNTI : U_RNTI)
Group	:
PDU Type	: PCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ message pagingType1: { pagingRecordList { utran_Identity: { u_RNTI p_U_RNTI , cn_OriginatedPage_connectedMode_UE OMIT } }, bcch_ModificationInfo OMIT, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgLastCmplList1(p_SIBType1 : SIB_Type; p_SegIndex1 : INTEGER; p_SIBData1 : SIB_Data_variable; p_SIBType2 : SIB_Type; p_SIBData2:SIB_Data_variable)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: System information message contains one complete SIB and one FirstSegmentShort. The actual value of sfn_Prime shall be filled in by lower layer before sent on air. The total length of p_SIBData1and p_SIBData2 must be less than 198 bits
Constraint Value	
<pre> { message { sfn_Prime 0, payload lastAndComplete : { lastSegmentShort { sib_Type p_SIBType1, segmentIndex p_SegIndex1, sib_Data_variable p_SIBData1 }, completeSIB_List { {sib_Type p_SIBType2, sib_Data_variable p_SIBData2} } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbr_108_RRC_ConnReq_r5 (p_EstCause: EstablishmentCause)
Group	:
PDU Type	: UL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionRequest : { initialUE_Identity (imsi : ? , tmsi_and_LAI : ? , p_TMSI_and_RAI : ? , imei : ?), establishmentCause p_EstCause, protocolErrorIndicator noError, measuredResultsOnRACH *, v3d0NonCriticalExtensions { rRcConnectionRequest_v3d0ext *, v4b0NonCriticalExtensions { rrcConnectionRequest_v4b0ext { accessStratumReleaseIndicator rel_5 }, v590NonCriticalExtensions * } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_SetUp57_6k_CS (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_RAB_Id : BITSTRING; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode) Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Defined in TS 34.123–1 annex A condition A.1	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList c_RAB_InfoListTM_57_6k (useT314, p_RAB_Id, c_RLC_InfoTM_Def), rb_InformationAffectedList OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoTM_57_6k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListTM_57_6k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListTM_57_6k, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, p_UL_ScramblingCode), modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_Streaming), dl_InformationPerRL_List c_DL_InformationPerRL (p_PrimScramblingCode , tsc_DL_DPCH1_ChC_Streaming, tsc_DL_DPCH1_2ndScrC) }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_SetUp64k_CS (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_RAB_Id : BITSTRING; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode) Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Defined in TS 34.123–1 annex A condition A.1	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList c_RAB_InfoListTM_64k (useT314, p_RAB_Id, c_RLC_InfoTM_Def), rb_InformationAffectedList OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoTM_64k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListTM_64k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListTM_64k, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, p_UL_ScramblingCode), modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_CS), dl_InformationPerRL_List c_DL_InformationPerRL(p_PrimScramblingCode , tsc_DL_DPCH1_ChC_64k_CS, tsc_DL_DPCH1_2ndScrC) }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_SetUp64k_PS (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_RAB_Id : BITSTRING; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode) Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Defined in TS 34.108 clause 9.	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList {c_RAB_InfoSetupDCH_PS_64k (useT315, p_RAB_Id, c_RLC_InfoAM_Def)}, rb_InformationAffectedList OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoListDCH_PS_64k, frequencyInfo OMIT, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode), modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_PS), dl_InformationPerRL_List c_DL_InformationPerRL (p_PrimaryScramblingCode , tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH1_2ndScrC) }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_SetUpSpeech (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_RAB_Id : BITSTRING; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode </p>)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	
Encoding Rule Name :	
Encoding Variation :	
Comments :	Defined in TS 34.108 clause 9 This constraint is to be used as derived constraints
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList { c_RAB_InfoSetupTM_12_2k (c_ReEstTimerT314, p_RAB_Id) }, rb_InformationAffectedList OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoTM_12_2k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListTM_12_2k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListTM_12_2k, frequencyInfo OMIT, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech, pl0_84, p_UL_ScramblingCode), modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation c_DL_CommonInformationRB_SetUpSpeech (tsc_DL_DPCH1_SFP_Speech), dl_InformationPerRL_List c_DL_InformationPerRL (p_PrimaryScramblingCode , tsc_DL_DPCH1_ChC_Speech, tsc_DL_DPCH1_2ndScrC) }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_PhyChannelReconfCmpl (p_RRC_Ti : RRC_TransactionIdentifier)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo *, message physicalChannelReconfigurationComplete : { rrc_TransactionIdentifier p_RRC_Ti , ul_IntegProtActivationInfo *, ul_TimingAdvance *, count_C_ActivationTime *, rb_UL_CiphActivationTimeInfo *, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_CellChangeOrderFromUTRAN_GSM (p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_ActTime: ActivationTime; p_interRAT_TargetCellDesc: InterRAT_TargetCellDescription)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.123-1 cl 8.3.11.1
Constraint Value	
<pre>{ integrityCheckInfo p_IntegrityInfo, message cellChangeOrderFromUTRAN : r3 : { cellChangeOrderFromUTRAN_IEs { -- cellChangeOrderFromUTRAN_IEs rrc_TransactionIdentifier p_RRC_Ti, dummy OMIT, activationTime p_ActTime, rab_InformationList OMIT, interRAT_TargetCellDescription p_interRAT_TargetCellDesc }, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbr_108_RB_SetUpCmpl (p_RRC_Ti : RRC_TransactionIdentifier; p_Count_C_ActivationTime : ActivationTime; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9. p_Count_C_ActivationTime : The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC–TM and (b) UE is transiting to CELL_DCH state after the RB establishment procedure. Else, this IE is absent p_RB_ActivationTimeInfoList : If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC–UM and RLC–AM RBs
Constraint Value	
<pre>{ integrityCheckInfo *, message radioBearerSetupComplete : { rrc_TransactionIdentifier p_RRC_Ti, ul_IntegProtActivationInfo *, ul_TimingAdvance *, start_Value ?, count_C_ActivationTime p_Count_C_ActivationTime, rb_UL_CiphActivationTimeInfo p_RB_ActivationTimeInfoList, ul_CounterSynchronisationInfo *, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbr_108_RRC_ConnRelCmpl (p_RRC_Ti: RRC_TransactionIdentifier)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre>{ integrityCheckInfo *, message rrcConnectionReleaseComplete : { rrc_TransactionIdentifier p_RRC_Ti, errorIndication *, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbr_108_RRC_ConnReq (p_EstCause: EstablishmentCause)
Group	:
PDU Type	: UL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre>{ integrityCheckInfo OMIT, message rrcConnectionRequest : { initialUE_Identity (imsi : ? , tmsi_and_LAI : ? , p_TMSI_and_RAI : ? , imei : ?), establishmentCause p_EstCause, protocolErrorIndicator noError, measuredResultsOnRACH *, v3d0NonCriticalExtensions * } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbr_108_RRC_SecModeCmpl (p_RRC_Ti : RRC_TransactionIdentifier; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre>{ integrityCheckInfo *, message securityModeComplete : { rrc_TransactionIdentifier p_RRC_Ti , ul_IntegProtActivationInfo *, rb_UL_CiphActivationTimeInfo p_RB_ActivationTimeInfoList, laterNonCriticalExtensions * } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RB_SetUpFACH_PS (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_RAB_Id : BITSTRING; p_NewC_RNTI : C_RNTI)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.123-1 annex A condition A.6
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI p_NewC_RNTI , rrc_StateIndicator cell_FACH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList c_RAB_InfoListFACH_PS (useT315, p_RAB_Id, c_RLC_InfoAM_Def), rb_InformationAffectedList OMIT , ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCH_PS_64k, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement OMIT, modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation OMIT , dl_InformationPerRL_List OMIT }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RRC_ConnSetupDCH (p_InitUEId : InitialUE_Identity; p_RRC_Ti : RRC_TransactionIdentifier; p_PrmbScrmCode : PrimaryScramblingCode; p_U_RNTI_New : U_RNTI; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionSetup: r3 : { rrcConnectionSetup_r3 --RRCConnectionSetup_r3_IEs { initialUE_Identity p_InitUEId, rrc_TransactionIdentifier p_RRC_Ti, activationTime OMIT, new_U_RNTI p_U_RNTI_New , new_c_RNTI OMIT, rrc_StateIndicator cell_DCH , utran_DRX_CycleLengthCoeff 9, capabilityUpdateRequirement { ue_RadioCapabilityFDDUpdateRequirement TRUE, ue_RadioCapabilityTDDUpdateRequirement FALSE, systemSpecificCapUpdateReqList {gsm} }, srb_InformationSetupList { c_SRB_InfoSetupUM_DCH (tsc_UL_DCCH1, tsc_UL_MAC_Prt1, tsc_UL_MAC_Prt1, tsc_DL_DCCH1), c_SRB_InfoSetupAM_DCH (tsc_UL_DCCH2, tsc_UL_MAC_Prt2, tsc_UL_MAC_Prt2, tsc_DL_DCCH2), c_SRB_InfoSetupAM_DCH (tsc_UL_DCCH3, tsc_UL_MAC_Prt3, tsc_UL_MAC_Prt3, tsc_DL_DCCH3), c_SRB_InfoSetupAM_DCH (tsc_UL_DCCH4, tsc_UL_MAC_Prt4, tsc_UL_MAC_Prt4, tsc_DL_DCCH4) }, ul_CommonTransChInfo c_UL_CommTrChInfoDCCH_13_6k, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCCH_13_6k, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCCH_SRB, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement ul_DPCH_Info : c_UL_DPCH_13_6_StandAlone (p_UL_ScramblingCode), dl_CommonInformation cd_DL_CommonInformationDCH_DPCH_Offset (tsc_DL_DPCH1_SFP_SRB), dl_InformationPerRL_List c_DL_InfoPerRL_DPCH_Offset (p_PrmbScrmCode, tsc_DL_DPCH1_2ndScrC, tsc_DL_DPCH1_ChC_SRB) }, laterNonCriticalExtensions OMIT } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RRC_ConnSetupFACH (p_InitUEId : InitialUE_Identity; p_RRC_Ti : RRC_TransactionIdentifier; p_PrmbScrmCode: PrimaryScramblingCode; p_U_RNTI_New : U_RNTI; p_CRNTI_New : C_RNTI; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.123-1 annex A
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionSetup: r3 : { rrcConnectionSetup_r3 --RRCConnectionSetup_r3_IEs { initialUE_Identity p_InitUEId, rrc_TransactionIdentifier p_RRC_Ti , activationTime OMIT, new_U_RNTI p_U_RNTI_New , new_c_RNTI p_CRNTI_New, rrc_StateIndicator cell_FACH , utran_DRX_CycleLengthCoeff 9, capabilityUpdateRequirement { ue_RadioCapabilityFDDUpdateRequirement TRUE, ue_RadioCapabilityTDDUpdateRequirement FALSE, systemSpecificCapUpdateReqList {gsm} }, srb_InformationSetupList { c_SRB_InfoSetupUM_FACH (tsc_RB1, tsc_UL_DCCH1, tsc_UL_MAC_Prt1, tsc_UL_MAC_Prt1, tsc_DL_DCCH1), c_SRB_InfoSetupAM_FACH (tsc_RB2,tsc_UL_DCCH2, tsc_UL_MAC_Prt2, tsc_UL_MAC_Prt2, tsc_DL_DCCH2), c_SRB_InfoSetupAM_FACH (tsc_RB3, tsc_UL_DCCH3, tsc_UL_MAC_Prt3, tsc_UL_MAC_Prt3, tsc_DL_DCCH3), c_SRB_InfoSetupAM_FACH (tsc_RB4, tsc_UL_DCCH4, tsc_UL_MAC_Prt4, tsc_UL_MAC_Prt4, tsc_DL_DCCH4) }, ul_CommonTransChInfo c_UL_CommTrChInfoDCCH_13_6k, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCCH_3_4k, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCCH_SRB, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement OMIT, dl_CommonInformation OMIT, dl_InformationPerRL_List OMIT }, laterNonCriticalExtensions OMIT } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_RB_ReconfCmpl (p_RRC_Ti : RRC_TransactionIdentifier; p_Count_C_ActivationTime : ActivationTime)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in 34.123-1 annex A
Constraint Value	
<pre>{ integrityCheckInfo *, message radioBearerReconfigurationComplete : { --RadioBearerReconfigurationComplete rrc_TransactionIdentifier p_RRC_Ti, ul_IntegProtActivationInfo *, ul_TimingAdvance *, count_C_ActivationTime p_Count_C_ActivationTime , rb_UL_CiphActivationTimeInfo OMIT, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_RB_RelCmpl (p_RRC_Ti : RRC_TransactionIdentifier ; p_Count_C_ActivationTime : ActivationTime; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo *, message radioBearerReleaseComplete : { --RadioBearerReleaseComplete, rrc_TransactionIdentifier p_RRC_Ti , ul_IntegProtActivationInfo *, ul_TimingAdvance *, count_C_ActivationTime p_Count_C_ActivationTime , rb_UL_CiphActivationTimeInfo p_RB_ActivationTimeInfoList , laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_RRC_ConnSetupCmpl (p_RRC_Ti : RRC_TransactionIdentifier; p_STARTList : STARTList)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre>{ integrityCheckInfo OMIT, message rrcConnectionSetupComplete : { rrc_TransactionIdentifier p_RRC_Ti, startList p_STARTList , ue_RadioAccessCapability *, ue_RATSpecificCapability *, v370NonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_SecModeFail (p_RRC_Ti : RRC_TransactionIdentifier; p_FailureCauseWithProtErr : FailureCauseWithProtErr)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo * , message securityModeFailure : { rrc_TransactionIdentifier p_RRC_Ti, failureCause p_FailureCauseWithProtErr, laterNonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_RRC_MeasRep
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo *, message measurementReport : ? }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_RRC_RB_SetUpCmplNoStartVal (p_RRC_Ti : RRC_TransactionIdentifier; p_Count_C_ActivationTime : ActivationTime; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: START value is omitted p_Count_C_ActivationTime : The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB establishment procedure. Else, this IE is absent p_RB_ActivationTimeInfoList : If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs
Constraint Value	
<pre>{ integrityCheckInfo *, message radioBearerSetupComplete : { rrc_TransactionIdentifier p_RRC_Ti, ul_IntegProtActivationInfo *, ul_TimingAdvance *, start_Value OMIT, count_C_ActivationTime p_Count_C_ActivationTime, rb_UL_CiphActivationTimeInfo p_RB_ActivationTimeInfoList, laterNonCriticalExtensions * } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_RRC_RrcConnReqAny
Group	:
PDU Type	: UL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo OMIT, message rrcConnectionRequest : { initialUE_Identity ?, establishmentCause ?, protocolErrorIndicator noError, measuredResultsOnRACH *, v3d0NonCriticalExtensions * } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_RRC_RrcStatus
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ integrityCheckInfo *, message rrcStatus : ? }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_108_RRC_ConnRelCCCH (p_U_rnti: U_RNTI; p_RRC_Ti: RRC_TransactionIdentifier)
Group	:
PDU Type	: DL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre>{ integrityCheckInfo OMIT, message rrcConnectionRelease : r3 : { rrcConnectionRelease_CCCH_r3 { u_RNTI p_U_rnti, rrcConnectionRelease { rrc_TransactionIdentifier p_RRC_Ti, n_308 OMIT, releaseCause normalEvent } }, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_108_RRC_ConnRelDCCH (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_Ti: RRC_TransactionIdentifier; p_N308: INTEGER)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre>{ integrityCheckInfo p_IntegrityCheckInfo, message rrcConnectionRelease : r3 : { rrcConnectionRelease_r3 { rrc_TransactionIdentifier p_RRC_Ti, n_308 p_N308, releaseCause normalEvent, rplmn_information OMIT }, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_108_RRC_SecModeCmd (p_IntegrityCheckInfo : IntegrityCheckInfo; p_SecModeCmd: SecurityModeCommand)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
{ integrityCheckInfo p_IntegrityCheckInfo, message securityModeCommand : p_SecModeCmd }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_RRC_PagingType1_ModifySI(p_mib_valuetag: MIB_ValueTag)
Group	:
PDU Type	: PCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ message pagingType1: { --PagingType1 pagingRecordList OMIT, bcch_ModificationInfo { mib_ValueTag p_mib_valuetag, bcch_ModificationTime OMIT -- changed immediately }, laterNonCriticalExtensions OMIT } }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_RRC_PagingType1_PTMSI (p_PagCause : PagingCause; p_P_tmsi : P_TMSI_GSM_MAP; p_Domain : CN_DomainIdentity)
Group	:
PDU Type	: PCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ message pagingType1: c_PagingType1_P_TMSI (p_PagCause, p_P_tmsi, p_Domain) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_RRC_PagingType1_TMSI(p_PagCause: PagingCause; p_Tmsi:TMSI_GSM_MAP; p_Domain : CN_DomainIdentity)
Group	:
PDU Type	: PCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	:
Constraint Value	
{ message pagingType1: c_PagingType1_TMSI(p_PagCause, p_Tmsi, p_Domain) }	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgCmpl(p_SIBType : SIB_Type; p_SIBData: SIB_Data_fixed)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: System information message contains complete SIB/SB/MIB. The actual value of sfn_Prime shall be filled in by lower layer before sent on air.
Constraint Value	
<pre>{ message { sfn_Prime 0, payload completeSIB : { sib_Type p_SIBType, sib_Data_fixed p_SIBData } } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgCmplList1(p_SIBType : SIB_Type; p_SIBData: SIB_Data_variable)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: System information message contains complete SIB/SB/MIB. The actual value of sfn_Prime shall be filled in by lower layer before sent on air.
Constraint Value	
<pre>{ message { sfn_Prime 0, payload completeSIB_List : {{ sib_Type p_SIBType, sib_Data_variable p_SIBData }} } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgCmplList2(p_SIBType1 : SIB_Type; p_SIBData1:SIB_Data_variable; p_SIBType2 :SIB_Type; p_SIBData2: SIB_Data_variable)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: System information message contains two complete SIB's. The actual value of sfn_Prime shall be filled in by lower layer before sent on air.
Constraint Value	
<pre> { message { sfn_Prime 0, payload completeSIB_List : {{ sib_Type p_SIBType1, sib_Data_variable p_SIBData1 }, { sib_Type p_SIBType2, sib_Data_variable p_SIBData2 }} } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgFirst(p_SIBType : SIB_Type; p_SegCount: INTEGER; p_SIBData: SIB_Data_fixed)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: The actual value of sfn_Prime shall be filled in by lower layer before sent on air.
Constraint Value	
<pre> { message { sfn_Prime 0, -- place holder payload firstSegment : { sib_Type p_SIBType, seg_Count p_SegCount, sib_Data_fixed p_SIBData } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgLast(p_SIBType : SIB_Type; p_SegIndex : INTEGER; p_SIBData: SIB_Data_fixed)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: The actual value of sfn_Prime shall be filled in by lower layer before sent on air. this message contains last segment which is 222 bits long.
Constraint Value	
<pre>{ message { sfn_Prime 0, payload lastSegment : { sib_Type p_SIBType, segmentIndex p_SegIndex, sib_Data_fixed p_SIBData } } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgLastShort(p_SIBType : SIB_Type; p_SegIndex : INTEGER; p_SIBData: SIB_Data_variable)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: The actual value of sfn_Prime shall be filled in by lower layer before sent on air. this message contains last segment which is short than 215 bits.
Constraint Value	
<pre>{ message { sfn_Prime 0, payload lastSegmentShort : { sib_Type p_SIBType, segmentIndex p_SegIndex, sib_Data_variable p_SIBData } } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgNoSegment
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: System information message contains no SIB, sent on the frame which there is no any SIB/SB/MIB scheduled on. The actual value of sfn_Prime shall be filled in by lower layer before sent on air.
Constraint Value	
<pre>{ message { sfn_Prime 0, payload noSegment : NULL } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SIB_MsgSubsequent(p_SIBType : SIB_Type; p_SegIndex : INTEGER; p_SIBData: SIB_Data_fixed)
Group	:
PDU Type	: BCCH_BCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: The actual value of sfn_Prime shall be filled in by lower layer before sent on air.
Constraint Value	
<pre>{ message { sfn_Prime 0, payload subsequentSegment : { sib_Type p_SIBType, segmentIndex p_SegIndex, sib_Data_fixed p_SIBData } } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_SysInfoChangeInd(p_mib_valuetag: MIB_ValueTag)
Group	:
PDU Type	: BCCH_FACH_Message
Derivation Path	:
Encoding Rule Name	: PER_Unaligned
Encoding Variation	:
Comments	:
Constraint Value	
<pre>{ message systemInformationChangeIndication : { --System Information Change Indication bcch_ModificationInfo { mib_ValueTag p_mib_valuetag, bcch_ModificationTime OMIT --0 }, laterNonCriticalExtensions OMIT } }</pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_CellUpdateCnfDCCH_HSENH (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_TI: RRC_TransactionIdentifier; p_U_RNTI : U_RNTI; p_C_RNTI: C_RNTI; p_H_RNTI: H_RNTI; p_State_Ind: RRC_StateIndicator; p_FreqInfo : FrequencyInfo; p_UL_ChannelRequirement : UL_ChannelRequirement_r5; p_DL_CommonInformation : DL_CommonInformation_r5 ; p_DL_HSPDSCH_Information: DL_HSPDSCH_Information; p_DL_InformationPerRL_List : DL_InformationPerRL_List_r5)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for Cell Update Confirm message specified in 34.108. Mapped to r5 branch.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityCheckInfo, message cellUpdateConfirm : later_than_r3: { rrc_TransactionIdentifier p_RRC_TI, criticalExtensions criticalExtensions : r5: { cellUpdateConfirm_r5 { --CellUpdateConfirm_r5_IEs integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI p_U_RNTI , new_C_RNTI p_C_RNTI, new_H_RNTI p_H_RNTI, rrc_StateIndicator p_State_Ind, utran_DRX_CycleLengthCoeff OMIT, rlc_Re_establishIndicatorRb2_3or4 FALSE, rlc_Re_establishIndicatorRb5orAbove FALSE, cn_InformationInfo OMIT, ura_Identity OMIT, rb_InformationReleaseList OMIT, rb_InformationReconfigList OMIT, rb_InformationAffectedList OMIT, ul_CommonTransChInfo OMIT, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList OMIT, modeSpecificTransChInfo fdd: { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo OMIT, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList OMIT, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement p_UL_ChannelRequirement, modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, } } } </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre>dl_HSPDSCH_Information p_DL_HSPDSCH_Information, dl_CommonInformation p_DL_CommonInformation , dl_InformationPerRL_List p_DL_InformationPerRL_List } } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_PhyChReconf64k_PS_ToDCH_HSENH(p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_ActTime: ActivationTime; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for Physical Channel Reconfiguration message for "Packet to CELL_DCH from CELL_DCH in PS" Condition A3 specified in 34.108. Mapped on to r5 branch.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message physicalChannelReconfiguration : later_than_r3: { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5: { physicalChannelReconfiguration_r5 { --PhysicalChannelReconfiguration_r5_IEs integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_ActTime, new_U_RNTI OMIT, new_C_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, dl_CounterSynchronisationInfo OMIT, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info: cb_UL_DPCH_Info_r5 (tsc_UL_DPDCH_SF_64k_PS , pl0_96, p_UL_ScramblingCode), modeSpecificInfo fdd: { dl_PDSCH_Information OMIT -- DL_PDSCH_Information }, dl_CommonInformation c_DL_CommonInformationRB_SetUp_r5 (tsc_DL_DPCH1_SFP_64k_PS), -- DL_CommonInformation dl_InformationPerRL_List c_DL_InformationPerRL_r5 (p_PrimScramblingCode , tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH_ScrC_5) --DL_InformationPerRL_List } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RB_RelHS_DCH_PS (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_TI: RRC_TransactionIdentifier; p_ActivationTime : ActivationTime; p_H_RNTI : H_RNTI; p_Freqnfo : FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Release message defined in 34.108 section 9.1.1 under condition A9.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityCheckInfo, message radioBearerRelease : later_than_r3 : { rrc_TransactionIdentifier p_RRC_TI, criticalExtensions criticalExtensions : r5 : { radioBearerRelease_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_ActivationTime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, -- Question: nothing in 34.108 rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, rab_InformationReconfigList OMIT, rb_InformationReleaseList c_RB_InformationRel25, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCCH_13_6k_r4, ul_deletedTransChInfoList c_UL_DeletedTransChInfo (tsc_UL_DCH1), ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCCH_13_6k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL_r4, dl_DeletedTransChInfoList c_DL_DeletedTransChInfoDCH_HS (tsc_DL_DCH1, 0), dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfo2ListDCCH_r5, frequencyInfo p_Freqnfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : c_UL_DPCH_13_6_StandAlone_r5 (p_UL_ScramblingCode), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information OMIT, dl_CommonInformation c_DL_CommonInformationRB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB), dl_InformationPerRL_List c_DL_InformationPerRL_r5 (p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_SRB, tsc_DL_DPCH_ScrC_3) }, radioBearerRelease_r5_add_ext OMIT, nonCriticalExtensions OMIT } } } </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre>} } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_SetUpHS_FromDCH (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Defined in TS 34.108 clause 9.	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerSetup_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, ura_Identity OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList {c_RAB_InfoSetupDCH_PS_HS (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH)}, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_384k_HSENH, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_384k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoList_2DCH_HS_PS_HSENH } (p_HSDPA_ConfigType.numberOfProcesses), frequencyInfo p_FreqInfo , maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_Sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(p_HSDPA_ConfigType)), dl_CommonInformation c_DL_CommonInformationRB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_InformationPerRL_List c_DL_InfoPerRL_HSENH (p_PrimaryScramblingCode , tsc_Sfc256_C0, tsc_DL_DPCH1_2ndScrC) } } </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre>}, radioBearerSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } }</pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_SetUpHS_FromFACH (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) Group : PDU Type : DL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Defined in TS 34.108 clause 9. Condition A.10	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerSetup_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI OMIT, new_DSCH_RNTI OMIT, new_H_RNTI p_H_RNTI, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, ura_Identity OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList { c_RAB_InfoSetupDCH_PS_HS_A10 (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH)}, rb_InformationAffectedList OMIT, dl_CounterSynchronisationInfo OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_384k_HSENH, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_384k, modeSpecificTransChInfo fdd : { cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList { c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) }, frequencyInfo p_FreqInfo , maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_Sf4, pl0_72, p_UL_ScramblingCode, p_HSDPA_ConfigType), modeSpecificPhysChInfo fdd : { dl_PDSCH_Information OMIT }, dl_HSPDSCH_Information c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(p_ </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre> HSDPA_ConfigType)), dl_CommonInformation cd_DL_CommonInformationDCH_DPCH_Offset_HS (tsc_DL_DPCH1_SFP_SRB_3_4k), dl_InformationPerRL_List c_DL_InfoPerRL_HSENH (p_PrimScramblingCode , tsc_Sfc256_C0, tsc_DL_DPCH1_2ndScrC) }, radioBearerSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
<p>Constraint Name : cds_108_RB_SetUpHS_FromDCH_UL_64k (</p> <pre> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_ActiveTime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType) </pre> <p>Group :</p> <p>PDU Type : DL_DCCH_Message</p> <p>Derivation Path : cbs_108_RB_SetUpHS_FromDCH.</p> <p>Encoding Rule Name :</p> <p>Encoding Variation :</p> <p>Comments : Defined in TS 34.108 clause 9. But uses 64 K uplink</p>	
Constraint Value	
<pre> REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5. ul_CommonTransChInfo BY c_UL_CommTrChInfoDCH_PS_64k_HSENH, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_AddReconfTransChInfoList BY c_UL_AddReconfTransChInfoListDCH_PS_64k, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.ul_ChannelRequirem ent BY ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType) </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cds_PhyChReconfDCH_ToURA_PCH_HSENH (p_IntegrityInfo: IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_FreqInfo: FrequencyInfo; p_PrimScramblingCode : PrimaryScramblingCode; p_NewC_RNTI : C_RNTI)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	cbs_108_PhyChReconf64k_PS_DCH_ToFACH_r5.
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.rrc_StateIndicator BY ura_PCH, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.utran_DRX_CycleLengthCoeff BY 3, REPLACE message.physicalChannelReconfiguration.later_than_r3.criticalExtensions.criticalExtensions.r5.physicalChannelReconfiguration_r5.ura_Identity BY tsc_URA_IdCellA	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromDCH_1RBMO (p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Setup message to set up an HSDPA PS RAB with one Radio Bearer Multiplexing Option: DCH / HS-DSCH.
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY { c_RAB_InfoSetupDCH_PS_HS_A10 (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH)}, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_AddReconfTrans ChInfoList BY { c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) } 	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cds_RB_SetUpHS_FromDCH_UL_64k_1RBMO (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_H_RNTI : H_RNTI; p_RAB_Id : BITSTRING; p_UL_ScramblingCode : UL_ScramblingCode; p_PrimaryScramblingCode : PrimaryScramblingCode; p_HSDPA_ConfigType : HSDPA_ConfigType </p>)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	: cbs_108_RB_SetUpHS_FromDCH.
Encoding Rule Name	:
Encoding Variation	:
Comments	: Radio Bearer Setup message to set up an HSDPA PS RAB with one Radio Bearer Multiplexing Option: DCH / HS-DSCH.
Constraint Value	
REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.rab_InformationSet upList BY { c_RAB_InfoSetupDCH_PS_HS_A10 (useT315, p_RAB_Id, c_RLC_InfoAM_Def_HSENH)}, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5. ul_CommonTransChInfo BY c_UL_CommTrChInfoDCH_PS_64k_HSENH, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_AddReconfTransChInfoList BY c_UL_AddReconfTransChInfoListDCH_PS_64k, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5.radioBearerSetup_r5.dl_AddReconfTrans ChInfoList BY { c_DL_AddReconfTransChInfoSameUL_HSENH (tsc_DL_DCH5, tsc_UL_DCH5), c_DL_AddReconfTransChHSDSCHInfo_HSENH (c_HSDSCH_Info (c_HARQ_Info (p_HSDPA_ConfigType.numberOfWorkProcesses), c_AddOrReconfMAC_dFlow (c_MAC_hs_AddReconfQueue336))) }, REPLACE message.radioBearerSetup.later_than_r3.criticalExtensions.criticalExtensions.r5 . radioBearerSetup_r5.ul_ChannelRequirement BY ul_DPCH_Info : cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode, p_HSDPA_ConfigType)	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name : cr_MeasurementReportIntraFreqEventActiveCellFirst (p_MeasId : MeasurementIdentity; p_ActiveCellPriScrCode, p_MonitoredCellPriScrCode : PrimaryScramblingCode; p_EventId : EventIDIntraFreq) Group : PDU Type : UL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
<pre> { integrityCheckInfo *, message measurementReport : { measurementIdentity p_MeasId, measuredResults intraFreqMeasuredResultsList : { { cellIdentity OMIT, dummy OMIT, cellSynchronisationInfo OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellPriScrCode }, cpich_Ec_N0 OMIT, cpich_RSCP ?, pathloss OMIT } }, { cellIdentity OMIT, dummy OMIT, cellSynchronisationInfo { modeSpecificInfo fdd : { countC_SFN_Frame_difference { countC_SFN_High ?, off ? }, tm ? } }, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_MonitoredCellPriScrCode }, cpich_Ec_N0 OMIT, cpich_RSCP ?, pathloss OMIT } } }, measuredResultsOnRACH OMIT, additionalMeasuredResults OMIT, eventResults intraFreqEventResults : { eventID p_EventId, cellMeasurementEventResults fdd : {{ primaryScramblingCode p_MonitoredCellPriScrCode }} }, v390nonCriticalExtensions * } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cr_MeasurementReportIntraFreqEventMonitoredCellFirst (p_MeasId : MeasurementIdentity; p_MonitoredCellPriScrCode, p_ActiveCellPriScrCode : PrimaryScramblingCode; p_EventId : EventIDIntraFreq) Group : PDU Type : UL_DCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments :	
Constraint Value	
<pre> { integrityCheckInfo *, message measurementReport : { measurementIdentity p_MeasId, measuredResults intraFreqMeasuredResultsList : { { cellIdentity OMIT, dummy OMIT, cellSynchronisationInfo { modeSpecificInfo fdd : { countC_SFN_Frame_difference { countC_SFN_High ?, off ? }, tm ? } }, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_MonitoredCellPriScrCode }, cpich_Ec_N0 OMIT, cpich_RSCP ?, pathloss OMIT } }, { cellIdentity OMIT, dummy OMIT, cellSynchronisationInfo OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ActiveCellPriScrCode }, cpich_Ec_N0 OMIT, cpich_RSCP ?, pathloss OMIT } } }, measuredResultsOnRACH OMIT, additionalMeasuredResults OMIT, eventResults intraFreqEventResults : { eventID p_EventId, cellMeasurementEventResults fdd : {{ primaryScramblingCode p_MonitoredCellPriScrCode }} }, v390nonCriticalExtensions * } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cs_ActSetUpdate (p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_TI: RRC_TransactionIdentifier; p_Act_time: ActivationTime ; p_Prm_ScrmCode: PrimaryScramblingCode; p_Dpch_FrameOffset:DPCH_FrameOffset ; p_sf_AndCodeNumber : SF512_AndCodeNumber; p_TPC_CombinationIndex : TPC_CombinationIndex; p_tfc_i_CombiningIndicator : BOOLEAN ; p_SecondaryScramblingCode : SecondaryScramblingCode)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	
Encoding Rule Name :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message activeSetUpdate: r3:{ activeSetUpdate_r3 { --ActiveSetUpdate_r3_IEs, rrc_TransactionIdentifier p_RRC_TI, dummy OMIT, dummy2 OMIT, activationTime p_Act_time, newU_RNTI OMIT, cn_InformationInfo OMIT, maxAllowedUL_TX_Power tsc_MaxAllowPwr, rl_AdditionInformationList {{ -- RL_AdditionInformation primaryCPICH_Info { primaryScramblingCode p_Prm_ScrmCode }, dl_DPCH_InfoPerRL fdd: { pCPICH_UsageForChannelEst mayBeUsed, dpch_FrameOffset p_Dpch_FrameOffset, secondaryCPICH_Info OMIT, dl_ChannelisationCodeList {{ --DL_ChannelisationCode secondaryScramblingCode p_SecondaryScramblingCode, sf_AndCodeNumber p_sf_AndCodeNumber, scramblingCodeChange OMIT }}, tpc_CombinationIndex p_TPC_CombinationIndex, ssdt_CellIdentity OMIT, closedLoopTimingAdjMode OMIT }, tfci_CombiningIndicator p_tfc_i_CombiningIndicator, sccpch_InfoforFACH OMIT }} } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name : cbr_108_CellUpdate_r5 (p_U_RNTI : U_RNTI; p_CellUpdate_Cause : CellUpdateCause) Group : PDU Type : UL_CCCH_Message Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Defined in TS 34.123-1 annex A	
Constraint Value	
<pre> { integrityCheckInfo *, message cellUpdate : { --CellUpdate u_RNTI p_U_RNTI , startList ?, am_RLC_ErrorIndicationRb2_3or4 FALSE, am_RLC_ErrorIndicationRb5orAbove FALSE, cellUpdateCause p_CellUpdate_Cause, failureCause OMIT, rb_timer_indicator { t314_expired FALSE, t315_expired FALSE }, measuredResultsOnRACH *, laterNonCriticalExtensions (OMIT, { cellUpdate_r3_add_ext *, v590NonCriticalExtensions OMIT }, { cellUpdate_r3_add_ext *, v590NonCriticalExtensions { cellUpdate_v590ext { establishmentCause OMIT}, nonCriticalExtensions *} }) } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_PhyChReconf64k_PS_DCH_ToFACH_r5 (<p>p_IntegrityInfo: IntegrityCheckInfo ;</p> <p>p_RRC_Ti: RRC_TransactionIdentifier;</p> <p>p_FreqInfo: FrequencyInfo;</p> <p>p_PrimScramblingCode : PrimaryScramblingCode;</p> <p>p_NewC_RNTI : C_RNTI)</p>
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for Physical Channel Reconfiguration message for This IE need for "Packet to CELL_FACH from CELL_DCH in PS" Condition A5 specified in 34.108. Mapped on to r5 branch.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message physicalChannelReconfiguration : later_than_r3: { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5: { physicalChannelReconfiguration_r5 { --PhysicalChannelReconfiguration_r5_IEs integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI p_NewC_RNTI , rrc_StateIndicator cell_FACH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, dl_CounterSynchronisationInfo OMIT, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement OMIT, modeSpecificInfo fdd: { dl_PDSCH_Information OMIT -- DL_PDSCH_Information }, dl_CommonInformation OMIT, dl_InformationPerRL_List c_DL_InfoPerRL_DCH_OrFACH_ToFACH_PS_r5 (p_PrimScramblingCode) --DL_InformationPerRL_List } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RB_Reconfig64k_PS_r5 (<p> p_IntegrityInfo : IntegrityCheckInfo; p_RRC_Ti : RRC_TransactionIdentifier; p_Activetime : ActivationTime; p_FreqInfo : FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode </p>)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 section 9: Radio Bearer Reconfiguration for "Packet to CELL_DCH from CELL_DCH in PS" (condition A3) mapped on the r5 branch.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerReconfiguration : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerReconfiguration_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime p_Activetime, new_U_RNTI OMIT, new_C_RNTI OMIT, new_H_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, specificationMode complete : { rab_InformationReconfigList OMIT, rb_InformationReconfigList c_RB_InfoReconfigList20_r5, rb_InformationAffectedList OMIT, rb_PDCPContextRelocationList OMIT, ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k_r4, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH_r4 (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList { c_DL_AddReconfTransChInfoDCH_PS_r5 (tsc_DL_DCH1) } }, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info_r5 (tsc_UL_DPDCH_SF_64k_PS, pl0_96, p_UL_ScramblingCode), modeSpecificPhysChInfo fdd : { }, dl_HSPDSCH_Information OMIT, dl_CommonInformation c_DL_CommonInformationRB_SetUp_r5 (tsc_DL_DPCH1_SFP_64k_PS), dl_InformationPerRL_List c_DL_InformationPerRL_r5 (p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH_ScrC_2) } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name : cbs_108_RB_ReconfigDCH_ToFACH_r5 (<p> p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_Ti: RRC_TransactionIdentifier; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_NewC_RNTI : C_RNTI </p>)	
Group :	
PDU Type :	DL_DCCH_Message
Derivation Path :	
Encoding Rule Name :	
Encoding Variation :	
Comments :	Defined in TS 34.108 section 9: Radio Bearer Reconfiguration for "Packet to CELL_FACH from CELL_DCH in PS" (condition A5) mapped on the r5 branch.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerReconfiguration : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { radioBearerReconfiguration_r5 { integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI p_NewC_RNTI, new_H_RNTI OMIT, rrc_StateIndicator cell_FACH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, ura_Identity OMIT, specificationMode complete : { rab_InformationReconfigList OMIT, rb_InformationReconfigList c_RB_InfoReconfigList20_r5, rb_InformationAffectedList OMIT, rb_PDCPContextRelocationList OMIT, ul_CommonTransChInfo OMIT, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList OMIT, dl_CommonTransChInfo OMIT, dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList OMIT }, frequencyInfo p_FreqInfo, maxAllowedUL_TX_Power tsc_MaxAllowPwr, ul_ChannelRequirement OMIT, modeSpecificPhysChInfo fdd : { }, dl_HSPDSCH_Information OMIT, dl_CommonInformation OMIT, dl_InformationPerRL_List c_DL_InfoPerRL_DCH_OrFACH_ToFACH_PS_r5 (p_PrimaryScramblingCode) } } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RRC_ConnSetupDCH_r5 (p_InitUEId : InitialUE_Identity; p_RRC_Ti : RRC_TransactionIdentifier; p_PrmbScrmCode : PrimaryScramblingCode; p_U_RNTI_New : U_RNTI; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionSetup: later_than_r3 : { initialUE_Identity p_InitUEId, rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { rrcConnectionSetup_r5 { activationTime OMIT, new_U_RNTI p_U_RNTI_New, new_c_RNTI OMIT, rrc_StateIndicator cell_DCH, utran_DRX_CycleLengthCoeff 9, capabilityUpdateRequirement { ue_RadioCapabilityFDDUpdateRequirement_FDD TRUE, ue_RadioCapabilityTDDUpdateRequirement_TDD384 FALSE, ue_RadioCapabilityTDDUpdateRequirement_TDD128 FALSE, systemSpecificCapUpdateReqList {gsm} }, specificationMode complete : { srb_InformationSetupList { c_SRB_InfoSetupUM_DCH (tsc_UL_DCCH1, tsc_UL_MAC_Prt1, tsc_UL_MAC_Prt1, tsc_DL_DCCH1), c_SRB_InfoSetupAM_DCH (tsc_UL_DCCH2, tsc_UL_MAC_Prt2, tsc_UL_MAC_Prt2, tsc_DL_DCCH2), c_SRB_InfoSetupAM_DCH (tsc_UL_DCCH3, tsc_UL_MAC_Prt3, tsc_UL_MAC_Prt3, tsc_DL_DCCH3), c_SRB_InfoSetupAM_DCH (tsc_UL_DCCH4, tsc_UL_MAC_Prt4, tsc_UL_MAC_Prt4, tsc_DL_DCCH4) }, ul_CommonTransChInfo c_UL_CommTrChInfoDCCH_13_6k_r4, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCCH_13_6k, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL_r4, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCCH_SRB_r4 }, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement ul_DPCH_Info : c_UL_DPCH_13_6_StandAlone_r4 (p_UL_ScramblingCode), dl_CommonInformation cd_DL_CommonInformationDCH_DPCH_Offset_r4 (tsc_DL_DPCH1_SFP_SRB), dl_InformationPerRL_List c_DL_InfoPerRL_DPCH_Offset_r5bis (p_PrmbScrmCode, tsc_DL_DPCH1_2ndScrC, tsc_DL_DPCH1_ChC_SRB) }, rrcConnectionSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cbs_108_RRC_ConnSetupFACH_r5 (p_InitUEId : InitialUE_Identity; p_RRC_Ti : RRC_TransactionIdentifier; p_PrmbScrmCode: PrimaryScramblingCode; p_U_RNTI_New : U_RNTI; p_CRNTI_New : C_RNTI; p_UL_ScramblingCode : UL_ScramblingCode)
Group	:
PDU Type	: DL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.123–1 annex A
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionSetup: later_than_r3 : { initialUE_Identity p_InitUEId, rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : r5 : { rrcConnectionSetup_r5 { activationTime OMIT, new_U_RNTI p_U_RNTI_New, new_c_RNTI p_CRNTI_New, rrc_StateIndicator cell_FACH , utran_DRX_CycleLengthCoeff 9, capabilityUpdateRequirement { ue_RadioCapabilityFDDUpdateRequirement_FDD TRUE, ue_RadioCapabilityTDDUpdateRequirement_TDD384 FALSE, ue_RadioCapabilityTDDUpdateRequirement_TDD128 FALSE, systemSpecificCapUpdateReqList {gsm} }, specificationMode complete : { srb_InformationSetupList { c_SRB_InfoSetupUM_FACH (tsc_RB1, tsc_UL_DCCH1, tsc_UL_MAC_Prt1, tsc_UL_MAC_Prt1, tsc_DL_DCCH1), c_SRB_InfoSetupAM_FACH (tsc_RB2,tsc_UL_DCCH2, tsc_UL_MAC_Prt2, tsc_UL_MAC_Prt2, tsc_DL_DCCH2), c_SRB_InfoSetupAM_FACH (tsc_RB3, tsc_UL_DCCH3, tsc_UL_MAC_Prt3, tsc_UL_MAC_Prt3, tsc_DL_DCCH3), c_SRB_InfoSetupAM_FACH (tsc_RB4, tsc_UL_DCCH4, tsc_UL_MAC_Prt4, tsc_UL_MAC_Prt4, tsc_DL_DCCH4) }, ul_CommonTransChInfo c_UL_CommTrChInfoDCCH_13_6k_r4, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCCH_3_4k, dl_CommonTransChInfo c_DL_CommonTransChInfoSameAsUL_r4, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCCH_SRB_r4 }, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement OMIT, dl_CommonInformation OMIT, dl_InformationPerRL_List OMIT }, rrcConnectionSetup_r5_add_ext OMIT, nonCriticalExtensions OMIT } } } </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
{ } }	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cr_108_RRC_ConnSetupCmpl_r5 (p_RRC_Ti : RRC_TransactionIdentifier; p_STARTList : STARTList)
Group	:
PDU Type	: UL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Question: A prose CR is needed in the future to change RRC CONNECTION SETUP COMPLETE in 34.108 (include the checking of UE capability)
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionSetupComplete : { rrc_TransactionIdentifier p_RRC_Ti, startList p_STARTList, ue_RadioAccessCapability *, ue_RATSpecificCapability *, v370NonCriticalExtensions { rrcConnectionSetupComplete_v370ext ?, v380NonCriticalExtensions { rrcConnectionSetupComplete_v380ext ?, v3a0NonCriticalExtensions { rrcConnectionSetupComplete_v3a0ext ?, laterNonCriticalExtensions { rrcConnectionSetupComplete_r3_add_ext *, v3g0NonCriticalExtensions { rrcConnectionSetupComplete_v3g0ext ?, v4b0NonCriticalExtensions { rrcConnectionSetupComplete_v4b0ext ?, v590NonCriticalExtensions { rrcConnectionSetupComplete_v590ext { ue_RadioAccessCapability_v590ext { dl_CapabilityWithSimultaneousHS_DSCHConfig pc_CapabilityWithSimultaneousHS_DSCHConfig IF_PRESENT, pdcp_Capability_r5_ext { supportForRfc3095ContextRelocation pc_SupportForRfc3095ContextRelocation, maxHcContextSpace pc_MaxHcContextSpace_r5_ext IF_PRESENT }, rlc_Capability_r5_ext { totalRLC_AM_BufferSize pc_TotalRLC_AM_BufferSize_r5_ext IF_PRESENT }, physicalChannelCapability { fdd_hspdsch supported : { hsdSCH_physical_layer_category pc_HSDSCH_UE_Category, supportOfDedicatedPilotsForChannelEstimationOfHSDSCH pc_SupportOfDedicatedPilotsForChannelEstimationOfHSDSCH, simultaneousSCCPCH_DPCH_HSDSCH_Reception pc_SimultaneousSCCPCH_DPCH_HSDSCH_Reception }, tdd384_hspdsch ?, tdd128_hspdsch ? }, multiModeRAT_Capability_v590ext { supportOfUTRAN_ToGERAN_NACC pc_SupportOfUTRAN_ToGERAN_NACC } }, ue_RATSpecificCapability_v590ext { </pre>	

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ASN.1 PDU Constraint Declaration	
Constraint Value	
<pre> geranlu_RadioAccessCapability pc_GERANlu_RadioAccessCapability } IF_PRESENT }, nonCriticalExtensions * } } } } } } } } } } </pre>	
Detailed Comments :	

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_108_RRC_ConnRelCCCH_r5 (p_U_rnti: U_RNTI; p_RRC_Ti: RRC_TransactionIdentifier)
Group	:
PDU Type	: DL_CCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre> { integrityCheckInfo OMIT, message rrcConnectionRelease : later_than_r3 : { u_RNTI p_U_rnti, rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions criticalExtensions : { groupIdentity OMIT, -- ?? criticalExtensions r5 : { rrcConnectionRelease_CCCH_r5 { rrcConnectionRelease { n_308 OMIT, releaseCause normalEvent, rplmn_information OMIT }, rrcConnectionRelease_CCCH_r5_add_ext OMIT, -- ?? nonCriticalExtensions OMIT } } } } } </pre>	
Detailed Comments	:

ASN.1 PDU Constraint Declaration	
Constraint Name	: cs_108_RRC_ConnRelDCCH_r4 (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_Ti: RRC_TransactionIdentifier; p_N308: INTEGER)
Group	:
PDU Type	: DL_DCCH_Message
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Defined in TS 34.108 clause 9.
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityCheckInfo, message rrcConnectionRelease : later_than_r3 : { rrc_TransactionIdentifier p_RRC_Ti, criticalExtensions r4 : { rrcConnectionRelease_r4 { n_308 p_N308, releaseCause normalEvent, rplmn_information OMIT }, v4d0NonCriticalExtensions OMIT } } } </pre>	
Detailed Comments	:

IV

Dynamic Part

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_1_27 Group : RRC/RRC_RAB_Establishment/ Purpose : To confirm that the UE establishes a radio bearer mapped to HS-DSCH according to the received RADIO BEARER SETUP message when having two radio links established. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (two radio links, start of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		+lt_SetPowerLevels_T0			
4		+pr_GotoState6_7_MO_HS (tsc_CellA)			
5		+ts_SS_CreateCellDCH_r5 (tsc_CellB)			
6		+ts_SendDefSysInfo (tsc_CellB)			
7	TBS	(tcv_TestBody := TRUE)			
8		+lt_TestBody			
9	TBE	(tcv_TestBody := FALSE)			
10		+po_ConnectionAndSS_RelsHS			Postamble
		lt_TestBody			
11		+ts_RRC_Delay (100)			
12		+ts_SetAttenuationLevel (tsc_CellB, tsc_AttLevToPower60_dBm)			Step 0a T1 power settings
13		+lt_ReceiveMeasReport			Step 0b
14		+lt_SHO_ConfigureAdditionalDL_DPCH			SS configur ation
15		AM ! RLC_AM_DATA_REQ	cas_ActSetUpdate (tsc_CellDedicated, tsc_RB2, cs_ActSetUpdate (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, tcv_CellInfoB.priScrmCode, (((tcv_Tm+128) MOD 38400) / 256), tsc_DL_DPCH1_ChC_SRB , 1, FALSE, tcv_CellInfoB.dl_DPCH_2n dScrCode))		Step 1 Active Set Update
16		START t_WaitMS			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	TBF3	? TIMEOUT t_WaitMS		(F)	
18	TBP3	AM ? RLC_AM_DATA_IND CANCEL t_WaitMS	car_ActSetUpdateCmpl (tsc_CellDedicated, tsc_RB2, cr_108_ActSetUpdateCmpl (tcv_RRC_Ti))	(P)	Step 2 Active Set Update Complete
19		+ts_CalculateActTime_r5 (tsc_Cella)			
20		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cs_RB_SetUpHS_FromDC H_SHO (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.ul_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_CellInfoB.priScrmCode, tcv_HS_Cfg.numberProcesses, tcv_Tm, tcv_HS_Cfg))		Step 3 Radio Bearer Setup
21		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
22		+lt_SS_Reconfig_2RL_HS			
23	TSP	+ts_RRC_ReceiverRB_SetupCmpl (tsc_Cella, cell_DCH_HS_DSCH)			Step 4 Radio Bearer Setup Complete
24		+ts_SetCellCfg (tsc_Cella, cell_DCH_HS_DSCH)			
25		+ts_SetTI_Rsp (tcv_TI_R)			
26		+ts_ReceiveActivatePDP_Accept_DCH_HS (tsc_Cella)			
27		Ut ? AT_CmdCnf	ca_AT_CmdCnf		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28		+ts_CheckHSDSCH_ ConfiguredInUE (tsc_CellA)			
29		+ts_C3_CheckCellID CH_HS (tsc_CellA)			Step 5
		It_ReceiveMeasReport			
30		START t_WaitMS			
31	TBF1	? TIMEOUT t_WaitMS		(F)	
32	TBP1	AM ? RLC_AM_DATA_IND (tcv_Tm := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.measurementReport. measuredResults.intraFreqMeasuredResultsList.[1].cellSynchronisationInfo.modeSpecificInfo.fdd.t m) CANCEL t_WaitMS	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasurementReportIntra FreqEventActiveCellFirst (1, tcv_CellInfoA.priScrmCode, tcv_CellInfoB.priScrmCode, e1a))	(P)	Measure ment Report Event 1a triggere d by cell2. ScrCode 1 first in message .
33	TBP2	AM ? RLC_AM_DATA_IND (tcv_Tm := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.measurementReport. measuredResults.intraFreqMeasuredResultsList.[0].cellSynchronisationInfo.modeSpecificInfo.fdd.t m) CANCEL t_WaitMS	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasurementReportIntra FreqEventMonitoredCellFirs t (1, tcv_CellInfoB.priScrmCode, tcv_CellInfoA.priScrmCode, e1a))	(P)	Measure ment Report Event 1a triggere d by cell2. ScrCode 2 first in message .
34		It_SHO_ConfigureAdditionalDL_DPCH CPHY ! CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (tsc_CellB, tsc_DL_DPCH1, c_DL_DPCH_PS_NewDPC H_FrameOffset (c_DL_CommonInformation RB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SR B), tcv_Tm, tcv_CellInfoB.dl_DPCH_2n dScrCode, tsc_DL_DPCH1_ChC_SRB , OMIT))		
35		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (tsc_CellB, tsc_DL_DPCH1)		
36		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (tsc_CellB, tsc_DL_DPCH1, c_TrChConfigTypeDCH_SH O, c_DCH_148_TTI_10_DL_In foActNow)		
37		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (tsc_CellB, tsc_DL_DPCH1)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		lt_SS_Reconfig_2RL_HS			
39		+ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify (tsc_CellA)			
40		CPHY ! CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_ r5 (tsc_CellB, tsc_DL_DPCH1, c_DL_DPCH_PS_NewDPC H_FrameOffset (c_DL_CommonInformation RB_SetUpReset_HSENH (tsc_DL_DPCH1_SFP_SR B_3_4k), tcv_Tm, tcv_CellInfoB.dl_DPCH_2n dScrCode, tsc_Sfc256_C0, noCodeChange), tcv_ActTime, TRUE)		
41		CPHY? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (tsc_CellB, tsc_DL_DPCH1)		
42		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (tsc_CellB, tsc_DL_DPCH1, c_TrChConfigTypeDCH_SH O, c_DCH_148_DL_ActTime (tcv_ActTime))		
43		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (tsc_CellB, tsc_DL_DPCH1)		
44		+ts_SS_RB25_AM_PS_Cfg (tsc_CellDedicated, 320) lt_SetPowerLevels_T0 (tcv_CellInfoA.attenuationLevel := tsc_AttLevToPower60_dBm, tcv_CellInfoB.attenuationLevel := tsc_AttLevToPower70_dBm)			T0 power settings
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_1_28 Group : RRC/RRC_RAB_Establishment/ Purpose : To confirm that the UE establishes a radio bearer mapped to DCH and HS-DSCH according to the received RADIO BEARER SETUP message in a cell without HS-DSCH. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_7_MO_HS (tsc_CellA)			
4		(tcv_TestBody:=TRUE)			
5		+lt_LocalTest			
6		(tcv_TestBody:=FALSE)			
7		+po_ConnectionAndSS_Rels_r5			
	TBE	lt_LocalTest	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_SetUpHS_FromDC H_NoHS (Step 1 Radio Bearer Setup
8		+ts_CalculateActTime_r5 (tsc_CellA)			
9		AM ! RLC_AM_DATA_REQ			
			tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, OMIT, tcv_RAB_Id, tcv_CellInfoA.ul_Scramblin gCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))		
10		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11	TSP	+ts_SS_2DCH_Modify_r5 (tsc_CellA, cb_DCH_336_148_UL_Info (tcv_ActTime), cb_DCH_336_148_DL_Info (tcv_ActTime), cb_TrChInfoUL_336_148, cb_TrChInfoDL_336_148, cd_TrLogMappingUL_4DCCH_1DTCH_HS, cd_TrLogMappingDL_4DCCH_1DTCH_HS, tcv_ActTime, cb_DL_DPCH_64K_PS_r5 (c_DL_CommonInformationRB_SetUp_r5 (tsc_DL_DPCH1_SFP_64k_PS), tcv_CellInfoA.dl_DPCH_2ndScrCode), cb_UL_DPCH_Info_r5 (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_CellInfoA.ul_ScramblingCode))			SS reconfiguration
12		CRCL ! CRCL_Config_REQ	ca_RB_AM_Info_RAB_r5 (tsc_CellDedicated, tsc_RB25, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, 320)		
13		CRCL ? CRCL_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB25)		
14		+ts_RRC_ReceiveRB_SetupCmplHS (tsc_CellA, cell_DCH_64kPS_RAB_SRB_HS)			Step 2 Radio Bearer Setup Complete
15		+ts_SetCellCfg (tsc_CellA, cell_DCH_64kPS_RAB_SRB_HS)			
16		+ts_SetTI_Rsp (tcv_TI_R)			
17		+ts_ReceiveActivatePDP_Accept_DCH (tsc_CellA)			
18		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
19		+ts_C3_CheckCellIDCH_r5 (tsc_CellA)			Step 3
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_1_29 Group : RRC/RRC_RAB_Establishment/ Purpose : To confirm that the UE establishes a radio bearer mapped to HS-DSCH using uplink TFCS restriction according to the received RADIO BEARER SETUP message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, uplink TFCS restriction and start of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+lt_InitVariables			
3		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			
4		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			T312 = 2s
5		+pr_GotoState6_7_MO_HS_NewSIB1 (tsc_CellA, tcv_SIB1)			
6		+ts_SS_CreateCellDCH_r5 (tsc_CellF)			
7		+ts_SetAttenuationLevel (tsc_CellF, tsc_AttenuationCellOFF)			At T0, CellF is Off
8		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoF))			
9		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			T312 = 2s
10		+ts_SendDefSysInfo_NewSIB1 (tsc_CellF, tcv_SIB1)			
11	TBS	(tcv_TestBody:=TRUE)			
12		+lt_LocalTest			
13	TBE	(tcv_TestBody:=FALSE)			
14		+po_ConnectionAndSS_ReleaseHS			
		lt_LocalTest			
15		+ts_SetAttenuationLevel (tsc_CellF, 0)			T1 power settings

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cds_RB_SetUpHS_FromDC H_8_2_1_29 (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, tcv_CellInfoF.frequencyInfo, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoF.ul_ScramblingCode, tcv_CellInfoF.priScrmCode, tcv_HS_Cfg))		Step 1 Radio Bearer Setup
17		+ts_RRC_Delay (500)			Arbitrary value. To be refined during TC verification.
18		+ts_HO_SS_ReconfDCH_ToDCH_HS_64k_UL (tsc_CellA, tsc_CellF)			SS reconfiguration
19		+ts_SS_RB25_AM_PS_Cfg (tsc_CellDedicated, 320)			
20		+ts_RRC_ReceiveRB_SetupCmplHS (tsc_CellF, cell_DCH_HS_DSCH)			Step 2 Radio Bearer Setup Complete
21		+ts_SetCellCfg (tsc_CellF, cell_DCH_HS_DSCH)			
22		+ts_SetTI_Rsp (tcv_TI_R)			
23		+ts_ReceiveActivatePDP_Accept_DCH_HS (tsc_CellF)			
24		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
25		+ts_CheckHSDSCH_ConfiguredI nUE (tsc_CellF)			
26		+ts_C3_CheckCellDCH_HS (tsc_CellF)			Step 3
27		It_InitVariables			
28		+ts_RRC_InitVariablesPS_HS (tcv_CellInfoA.powerpCPICH := -55, tcv_CellInfoF.powerpCPICH := -55, tcv_CellInfoF.attenuationLevel := tsc_AttenuationNonSuitableNeighbourCell)			

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Test Case Dynamic Behaviour
Detailed Comments :

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_1_30 Group : RRC/RRC_RAB_Establishment/ Purpose : To confirm that the UE establishes a radio bearer mapped to HS-DSCH and starts HS-DSCH reception in conjunction with a interfrequency hard handover without prior measurement on the target frequency according to the received RADIO BEARER SETUP message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, start of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_7_MO_HS (tsc_CellA)			
4		+ts_SS_CreateCellDCH_r5 (tsc_CellF)			
5		+ts_SendDefSysInfo (tsc_CellF)			
6		(tcv_TestBody:=TRUE)			
7		+lt_LocalTest			
8		(tcv_TestBody:=FALSE)			
9		+po_ConnectionAndSS_RelsHS			
		lt_LocalTest			
10	TBE	+ts_CalculateActTime_r5 (tsc_CellA)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_SetUpHS_ToDCH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoF.frequencyInfo, tsc_NewHRNTI2, tcv_RAB_Id, tcv_CellInfoF.ul_Scramblin gCode, tcv_CellInfoF.priScrmCode, tcv_HS_Cfg)) car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		Step 1 Radio Bearer Setup
11		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)			
12		AM ? RLC_AM_DATA_CNF			
13		+ts_HO_SS_ReconfDCH_ToDCH_HS (tsc_CellA, tsc_CellF, cd_DL_CommonInformationDCH_DPCH_Of fset_Diff_HSENH (tsc_DL_DPCH1_SFP_SRB_3_4k))			
14		+ts_SS_RB25_AM_PS_Cfg (tsc_CellDedicated, 320)			
					SS reconfig uration

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		+ts_RRC_ReceiveRB_SetupCmplHS (tsc_CellF, cell_DCH_HS_DSCH)			Step 2 Radio Bearer Setup Comple te
16		+ts_SetCellCfg (tsc_CellF, cell_DCH_HS_DSCH)			
17		+ts_SetTI_Rsp (tcv_TI_R)			
18		+ts_ReceiveActivatePDP_Accept_DCH_HS (tsc_CellF)			
19		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
20		+ts_CheckHSDSCH_ConfiguredI nUE (tsc_CellF)			Step 3
21		+ts_C3_CheckCellIDCH_HS (tsc_CellF)			
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_1_31 Group : RRC/RRC_RAB_Establishment/ Purpose : To confirm that the UE establishes a radio bearer mapped to HS-DSCH according to the received RADIO BEARER SETUP message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (start of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			
4		(tcv_SIB1.ue_ConnTimersAndConstants.t_31 2 := 2)			T312 = 2s
5		+pr_GotoState6_8_MO_HS_NewSIB1 (
6	TBS	tsc_CellA, tcv_SIB1)			
7		(tcv_TestBody:=TRUE)			
8	TBE	+lt_LocalTest			
9		(tcv_TestBody:=FALSE)			
		+po_ConnectionAndSS_RelsHS			
10		lt_LocalTest AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM (		Step 1 Radio Bearer Setup
			tsc_CellDedicated,		
			tsc_RB2,		
			cds_RB_SetUpHS_FromFA		
			CH_8_2_1_31 (
			tcv_CellIndInfo.dl_Integrity		
			CheckInfo,		
			tcv_RRC_Ti,		
			OMIT,		
			tsc_NewHRNTI,		
			tcv_RAB_Id,		
			tcv_CellInfoA.ul_Scramblin		
			gCode,		
			tcv_CellInfoA.priScrmCode,		
			tcv_HS_Cfg)		
)		
11		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			
12		+ts_HO_SS_ReconfFACH_ToDCH_HS_Cfg2			SS reconfig uration
		(tsc_CellA, tsc_CellA)			
13	TBP1	+ts_RRC_ReceiveRB_SetupCmplHS (			Step 2 Radio Bearer Setup Comple te
		tsc_CellA, cell_DCH_HS_DSCH)			
14		+ts_SetTI_Rsp (tcv_TI_R)			
15		+ts_ReceiveActivatePDP_Accept_DCH_			
		HS (tsc_CellA)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		Ut ? AT_CmdCnf	ca_AT_CmdCnf		Step 3
17		+ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			
18		+ts_C3_CheckCellIDCH_HS (tsc_CellA)			
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_1_32 Group : RRC/RRC_RAB_Establishment/ Purpose : To confirm that the UE establishes a radio bearer mapped to HS-DSCH according to the received RADIO BEARER SETUP message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (start of HS-DSCH reception with frequency modification)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+lt_InitVariables			
3		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			
4		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			T312 = 2s
5		+pr_GotoState6_8_MO_HS_NewSIB1 (tsc_CellA, tcv_SIB1)			
6		+ts_SS_CreateCellFACH_r5 (tsc_CellF)			
7		+ts_SetAttenuationLevel (tsc_CellF, tsc_AttenuationCellIOFF)			
8		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoF))			
9		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			T312 = 2s
10		+ts_SendDefSysInfo_NewSIB1 (tsc_CellF, tcv_SIB1)			
11	TBS	(tcv_TestBody:=TRUE)			
12		+lt_LocalTest			
13	TBE	(tcv_TestBody:=FALSE)			
14		+po_ConnectionAndSS_ReleaseHS			
15		lt_LocalTest +ts_SetAttenuationLevel (tsc_CellF, 0)			T1 power settings
16		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cds_RB_SetUpHS_FromFACH_8_2_1_32 (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_CellInfoF.frequencyInfo, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoF.ul_ScramblingCode, tcv_CellInfoF.priScrmCode,		Step 1 Radio Bearer Setup

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	TBP1	+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)	tcv_HS_Cfg) <		

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_2_36 Group : RRC/RRC_RB_Reconfig/ Purpose : To confirm that the UE starts and stops receiving the HS-DSCH according to the received RADIO BEARER RECONFIGURATION message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Start and stop of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			Postamble
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_17_MO (tsc_CellA)			
4		(tcv_TestBody := TRUE)			
5		+lt_TestBody			
6		(tcv_TestBody := FALSE)			
7		+po_ConnectionAndSS_RelsHS			
8	TBE	lt_TestBody			Step 1 Radio Bearer Reconfiguration
9		+ts_CalculateActTime_r5 (tsc_CellA)			
10		AM ! RLC_AM_DATA_REQ			
11		AM ? RLC_AM_DATA_CNF	cas_RB_ReconfigureWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_ReconfigHS_Stop (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		
12		(tcv_CellInfoA.dl_DPCH_2ndScrmCode := tsc_DL_DPCH_ScrC_2)	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		Secondary scrambling code of DL DPCH is changed from 1 to 2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12	TBP1	+ts_SS_ReconfDCH_HS_ToDCH (tsc_CellA)			SS reconfiguration Step 3 Radio Bearer Reconfiguration Complete
13		+ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA)			
14		+ts_CheckHSDSCH_NotConfiguredInUE (tsc_CellA)			
15		+ts_CPHY_TrChRelNonDch (tsc_CellA, tsc_HSPDSCH)			
16		+ts_SS_StopRL (tsc_CellA, tsc_HSPDSCH)			
17		+ts_CalculateActTime_r5 (tsc_CellA)			
18		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)			
19	TBP2	AM ? RLC_AM_DATA_CNF	cas_RB_ReconfigureWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cs_RB_ReconfigHS_Start (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tsc_NewHRNTI, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		Step 4 Radio Bearer Reconfiguration
20		+ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify (tsc_CellA)	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
21		+ts_SetCellCfg (tsc_CellA, cell_DCH_HS_DSCH)			
22		+ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA)			
					Step 6 Radio Bearer Reconfiguration Complete

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		+ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			
24		+ts_C3_CheckCellIDCH_HS (tsc_CellA)			Step 7
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_2_38 Group : RRC/RRC_RB_Reconfig/ Purpose : To confirm that the UE reconfigures the radio bearer while being mapped to HS-DSCH according to the received RADIO BEARER RECONFIGURATION message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (with active HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			Postamble
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_17_MO (tsc_CellA)			
4		(tcv_TestBody := TRUE)			
5		+lt_TestBody			
6		(tcv_TestBody := FALSE)			
7		+po_ConnectionAndSS_RelsHS			
8	TBE	lt_TestBody			Step 1 Radio Bearer Reconfiguration
9		+ts_CalculateActTime_r5 (tsc_CellA)			
10		AM ! RLC_AM_DATA_REQ			
11		AM ? RLC_AM_DATA_CNF	cas_RB_ReconfigureWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_ReconfigHS_Continue (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.uL_ScramblingCode))		
		(tcv_CellInfoA.dl_DPCH_2ndScrmCode := tsc_DL_DPCH_ScrC_2)	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		Secondary scrambling code of DL DPCH is changed from 1 to 2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12	TBP1	+ts_SS_ReconfDL_DPCH_HS (tsc_CellA)			Reconfigure SS with new 2d ScrCode
13		+ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA)			Step 2 Radio Bearer Reconfiguration Complete
14		+ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			Step 3
15		+ts_C3_CheckCellIDCH_HS (tsc_CellA)			
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_2_40 Group : RRC/RRC_RB_Reconfig/ Purpose : To confirm that the UE transits to CELL_FACH state from CELL_DCH state in another cell and frequency and stops receiving the HS-DSCH according to the received RADIO BEARER RECONFIGURATION message. To confirm that the UE transits to CELL_DCH state from CELL_FACH state in another cell and frequency and starts receiving the HS-DSCH according to the received RADIO BEARER RECONFIGURATION message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_FACH and from CELL_FACH to CELL_DCH: Success (frequency band modification, start and stop of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			
4		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			T312 = 2s
5		+pr_GotoState6_7_MO_HS_NewSIB1 (tsc_CellA, tcv_SIB1)			
6		+ts_SS_CreateCellFACH_r5 (tsc_CellF)			
7		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoF))			
8		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			T312 = 2s
9		+ts_SendDefSysInfo_NewSIB1 (tsc_CellF, tcv_SIB1)			
10		+ts_SS_SwitchCellOff (tsc_CellF)			
11	TBS	(tcv_TestBody := TRUE)			
12		+lt_TestBody			
13	TBE	(tcv_TestBody := FALSE)			
14		+po_ConnectionAndSS_ReleaseHS			Postamble
15		lt_TestBody +ts_RRC_RAB_EstPS_MO_P25 (tsc_CellA, TRUE)			Step 0
16		+ts_SetAttenuationLevel (tsc_CellA, tsc_AttLevToPower65_dBm)			Step 1
17		+ts_SS_SwitchBackCellOn (tsc_CellF)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	TBP1	AM ! RLC_AM_DATA_REQ (tcv_CellInfoF.cRNTI := tsc_CRNTI)	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cds_RB_ReconfigDCH_ToFACH_HS_Stop (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_CellInfoF.frequencyInfo, tcv_CellInfoF.priScrmCode, tsc_CRNTI))		Step 2 Radio Bearer Reconfiguration
19		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			
20		+ts_HO_SS_ReconfDCH_HS_ToFACH (tsc_CellA, tsc_CellF)			SS reconfiguration
21		+ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA)			Step 3 Radio Bearer Reconfiguration Complete
22		+ts_RRC_Delay (500)			
23		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cs_RB_ReconfigFACH_ToDCH_HS_StartInterFreq (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tsc_NewHRNTI2, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode, tcv_HS_Cfg))		Step 4 Radio Bearer Reconfiguration
24		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			
25		+ts_HO_SS_ReconfFACH_ToDCH_HS (tsc_CellF, tsc_CellA)			SS reconfiguration

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26	TBP2	+ts_RRC_ReceiveRB_Reconfig Cmpl (tsc_CellA)			Step 5 Radio Bearer Reconfig uration Comple te
27		+ts_CheckHSDSCH_Configu redInUE (tsc_CellA)			
28		+ts_C3_CheckCellDCH_HS (tsc_CellA)			Step 6
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_3_30 Group : RRC/RRC_RAB_Release/ Purpose : To confirm that the UE releases a radio bearer mapped to HS-DSCH according to the received RADIO BEARER RELEASE message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (stop of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			Postamble
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_17_MO (tsc_CellA)			
4		(tcv_TestBody := TRUE)			
5		+lt_TestBody			
6		(tcv_TestBody := FALSE)			
7		+po_ConnectionAndSS_Rels_r5			
8	TBE	lt_TestBody			Step 1 Radio Bearer Release
9		+ts_CalculateActTime_r5 (tsc_CellA)			
10		(tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_3)			
11		AM ! RLC_AM_DATA_REQ			
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14	TBP1	+ts_RRC_ReceiveRB_RelCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Step 2 Radio Bearer Release Comple te
15		+ts_SetCellCfg (tsc_CellA, cell_DCH_StandAloneSRB)			
16		+ts_C3_CheckCellDCH_r5 (tsc_CellA)			Step 3
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_4_36 Group : RRC/RRC_TrCh_Reconf/ Purpose : To confirm that the UE reconfigures the transport and physical channel while being mapped to HS-DSCH according to the received TRANSPORT CHANNEL RECONFIGURATION message. To confirm that the UE keeps the same value of TTI (transmission time interval) during the procedure. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success (with active HS-DSCH reception, not changing the value of TTI during UL rate modification)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_7_MO_HS (tsc_CellA)			
4		(tcv_TestBody := TRUE)			
5		+lt_TestBody			
6		(tcv_TestBody := FALSE)			
7		+po_ConnectionAndSS_RelsHS			Postamble
		lt_TestBody			
8	TBE	+lt_RAB_EstPS_MO_P25_1RBMO (tsc_CellA)			Step 0
9		+lt_UL_64k_restriction			Steps 1 & 2
10		+ts_CalculateActTime_r5 (tsc_CellA)			Step 3 Transport Channel Reconfiguration UL transmission rate limited to 32kbps
11		AM ! RLC_AM_DATA_REQ			
			cas_TrChReconfWithCnf (tsc_CellDedicated, tsc_RB2, cds_TrChReconf_HS_UL_32k_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo , tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		
12		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
13		+ts_SS_ReconfUL_DPCH_NewRate (tsc_CellA, tsc_Sf32, pl0_88, c_TFCS_Cmpl0_To11_Rx_32k_restriction)			SS reconfiguration

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14	TBP2	+ts_RRC_ReceiveTrChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Step 4 Transport Channel Reconfiguration Complete
15		+ts_RRC_Delay (500)			
16		+lt_UL_64k_restriction			Steps 5 & 6
17		+ts_CalculateActTime_r5 (tsc_CellA)			
18		AM ! RLC_AM_DATA_REQ	cas_TrChReconfWithCnf (tsc_CellDedicated, tsc_RB2, cds_TrChReconf_HS_UL_384k_HSENH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo , tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		Step 7 Transport Channel Reconfiguration
19	TBP3	AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
20		+ts_SS_ReconfUL_DPCH_NewRate (tsc_CellA, tsc_Sf4, pl0_72, c_TFCS_Cmpl0_To11_Rx)			SS reconfiguration
21		+ts_RRC_ReceiveTrChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Step 8 Transport Channel Reconfiguration Complete
22		+ts_C3_CheckCellIDCH_HS (tsc_CellA)			Step 9
23		lt_UL_64k_restriction +ts_CalculateActTime_r5 (tsc_CellA)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24	TBP1	AM ! RLC_AM_DATA_REQ	cas_TrChReconfWithCnf (tsc_CellDedicated, tsc_RB2, cds_TrChReconf_HS_UL_64k_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo , tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		Transport Channel Reconfiguration UL transmission rate limited to 64kbps
25		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		SS reconfiguration
26		+ts_SS_ReconfUL_DPCH_NewRate (tsc_CellA, tsc_UL_DPDCH_SF_64k_PS, pl0_96, c_TFCS_Cmpl0_To11_Rx_64k_Restriction)			
27		+ts_RRC_ReceiveTrChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Transport Channel Reconfiguration Complete
28		+ts_RRC_Delay (500) It_RAB_EstPS_MO_P25_1RBMO (p_CellId : INTEGER)			
29		+ts_CalculateActTime_r5 (p_CellId)			
30		+ts_SetTmpCellInfo (p_CellId)			
31		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_SetUpHS_FromDCH_8_2_4_36 (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_TmpCellInfo.ul_ScramblingCode, tcv_TmpCellInfo.priScrm		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		AM ? RLC_AM_DATA_CNF	Code, tcv_HS_Cfg)) car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
33		+ts_SS_DL_DPCH_ModifyHS (p_CellId)			
34		+ts_SS_HS_DSCH_PDSCH_Cfg2 (p_CellId)			
35		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_ HSENH (p_CellId, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_ HSENH (sf4, pl0_72, tcv_TmpCellInfo.uL_Scrambl ingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
36		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_UL_DPCH1)		
37		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, c_DCH_336_148_UL_Info 384k (tcv_ActTime))		
38		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
39		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148_384k, cd_TrLogMappingUL_4DCH_1DTCH_HS, tcv_ActTime)		
40		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
41		+ts_SS_RB25_AM_PS_Cfg2 (320)			
42		+ts_SetCellCfg (p_CellId, cell_DCH_HS_DSCH)			
43		+ts_RRC_ReceiveRB_SetupCmplHS (p_CellId, cell_DCH_HS_DSCH)			
44		+ts_SetTI_Rsp (tcv_TI_R)			
45		+ts_ReceiveActivatePDP_Accept_DCH_HS (p_CellId)			
46		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
47		+ts_CheckHSDSCH_ConfiguredInUE (p_CellId)			

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Test Case Dynamic Behaviour
Detailed Comments :

Test Case Dynamic Behaviour					
Test Case Name : tc_8_3_1_32 Group : RRC/RRC_CellUpdate/ Purpose : To confirm that the UE enters the CELL_DCH state after it receives a CELL UPDATE CONFIRM message with a physical channel configuration causing it to start HS-DSCH reception. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Cell Update: Transition from URA_PCH to CELL_DCH, start of HS-DSCH reception					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariablesPS_HS			
4		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA)			
5)			
6		(
7	TBS	tcv_SIB1.ue_ConnTimersAndConstants.t_3			
8		12 := 2)			
9		+pr_GotoState6_17_MO_NewSIB1			
10		(tsc_CellA, tcv_SIB1)			
11	ERR1	(tcv_TestBody := TRUE)		I	Postamble
12		+lt_TestBody			
13	TBE	(tcv_TestBody := FALSE)		I	TDD specific behaviour
14		+po_ConnectionAndSS_RelsHS			
15	ERR2	[px_RAT=tdd]			
16		[TRUE]			
17		lt_TestBody			
18		+ts_RRC_Delay (500)			
19		AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (		Step 1.
20			tsc_CellDedicated,		
21			tsc_RB2,		
22			cds_PhyChReconfDCH_To		
23			URA_PCH_HSENH (
24			tcv_CellIndInfo.dl_Integrity		
25			CheckInfo,		
26			tcv_RRC_Ti,		
27			tcv_CellInfoA.frequencyInfo		
28			,		
29			tcv_CellInfoA.priScrmCode		
30			,		
31			OMIT)		
32)		
33		+ts_RRC_ReceivePhyChReconfCmpl (Step2.
34		tsc_CellA, tcv_CellInfoA.cellConfig)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		(tcv_CellInfoA.dRX_CycleLength.utran_DR X_CycleLength := 3)			SS reconfig ure the Physical Channel
17		+ts_RRC_Delay (5000)			Step 2a
18		+ts_RRC_Delay (100)			
19		+ts_HO_SS_ReconfDCH_HS_ToFACH (tsc_CellA, tsc_CellA)			
20		+ts_ConnectedModePagingType1 (tsc_CellA)			Step 3
21		+ ts_RRC_ReceiveCellUpdateNonPerio dic (tsc_CellA, cbr_108_CellUpdate_r5 (tcv_CellInfoA.uRNTI, utran_pagingResponse) , 13500)			Step 4
22		+ts_CMACHS_New_RNTI_Recon f (TRUE, tsc_CellA, tcv_CellInfoA.uRNTI, tcv_CellInfoA.cRNTI)			
23		+lt_SendCellUpdateCnfDCCH			
24		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			
25		+ts_CRLC_ReconfRLC_Size_r5 (FALSE)			
26		+ts_HO_SS_ReconfFACH_ToDCH_HS (tsc_CellA,tsc_CellA)			
27		+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Step 6
28		+ ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			
29		lt_SendCellUpdateCnfDCCH			
30		[tcv_HS_Cfg.ul_DataRate = r64] UM ! RLC_UM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RRC_CellUpdateCnfDCCH(tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDCCH_HSENH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, OMIT, tsc_NewHRNTI, cell_DCH, OMIT, ul_DPCH_Info : (cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_CellInfoA.u		Step 5

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		[tcv_HS_Cfg.ul_DataRate = r384]	L_ScramblingCode,tcv_HS_Cfg)), cd_DL_CommonInformation DCH_DPCH_Offset_HS(tsc_DL_DPCH1_SFP_SRB _3_4k ,c_DL_HSPDSCH_Informa tion(c_HS_SCCH_Info,c_M easurement_Feedback_Info(tcv_HS_Cfg)), c_DL_InfoPerRL_HSENH (tcv_CellInfoA.priScrmCode ,tsc_Sfc256_C0, tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode)))		
32		UM ! RLC_UM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RRC_CellUpdateCnfD CCH(tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDC H_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, OMIT, tsc_NewHRNTI, cell_DCH, OMIT, ul_DPCH_Info : (cb_UL_DPCH_InfoACK_H SENH (tsc_Sf4, pl0_72, tcv_CellInfoA.ul_Scramblin gCode , (tcv_HS_Cfg))), cd_DL_CommonInformation DCH_DPCH_Offset_HS(tsc_DL_DPCH1_SFP_SRB _3_4k ,c_DL_HSPDSCH_Informa tion(c_HS_SCCH_Info,c_M easurement_Feedback_Info(tcv_HS_Cfg)), c_DL_InfoPerRL_HSENH (tcv_CellInfoA.priScrmCode ,tsc_Sfc256_C0, tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode)))		Step 5
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_3_1_33 Group : RRC/RRC_CellUpdate/ Purpose : To confirm that the UE enters the CELL_DCH state after it receives a CELL UPDATE CONFIRM message with a physical channel configuration causing it to start HS-DSCH reception on a different cell and frequency. To confirm that the UE enters CELL_PCH state on another frequency and stops HS-DSCH reception when it receives a PHYSICAL CHANNEL RECONFIGURATION message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Cell Update: Transition from CELL_PCH to CELL_DCH, start of HS-DSCH reception, frequency band modification					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			FDD specific behaviour (1)
2		[px_RAT=fdd]			
3		+ts_RRC_InitVariablesPS_HS			
4		(tcv_CellInfoF.powerpCPICH := -55)			
5		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			
6		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			
7		+pr_GotoState6_7_MO_HS_NewSIB1 (tsc_CellA, tcv_SIB1)			
8		+ts_SS_CreateCellFACH_r5 (tsc_CellF)			
9		+ts_SS_SwitchCellOff (tsc_CellF)			
10		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoF))			
11		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			
12		+ts_SendDefSysInfo_NewSIB1 (tsc_CellF, tcv_SIB1)			
13	TBS	(tcv_TestBody := TRUE)			
14		+lt_TestBody			
15	TBE	(tcv_TestBody := FALSE)			
16		+po_ConnectionAndSS_RelsHS			
17	ERR1	[px_RAT=tdd]		I	Postamble TDD specific behaviour
18	ERR2	[TRUE] lt_TestBody		I	
19		+ts_RRC_RAB_EstPS_MO_P25 (tsc_CellA, TRUE)			Step 0.
20		+ts_SS_SwitchBackCellOn(tsc_CellF)			Step 1. (2)

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		(tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH + 72)			
22		+ts_SetAttenuationLevel (tsc_CellA, tcv_CellInfoA.attenuationLevel)			Step1.
23		AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfDCH_To Cell2_PCH_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_CellInfoF.frequencyInfo, tcv_CellInfoF.priScrmCode, OMIT))		(2) Step 2.
24		+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Step 3.
25		(tcv_CellInfoF.dRX_CycleLength.uTRAN _DRX_CycleLength := 3)			
26		+ts_RRC_Delay (5000)			(3).
27		+ts_HO_SS_ReconfDCH_HS_ToFA CH (tsc_CellA, tsc_CellF)			Step 4.
28		+ts_ConnectedModePagingType1 (tsc_CellF)			Step 5.
29		+ ts_RRC_ReceiveCellUpdateNonP eriodic (tsc_CellF, cbr_108_CellUpdate_r5 (tcv_CellInfoA.uRNTI, utran_pagingResponse) , 13500)			Step 6.
30		(tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH + 60,tcv_CellInfoF.attenuationLe vel := tcv_CellInfoF.powerpCPICH + 72)			(4)
31		+ts_SetAttenuationLevel (tsc_CellA, tcv_CellInfoA.attenuationLeve l)			Step 7.
32		+ts_SetAttenuationLevel (tsc_CellF, tcv_CellInfoF.attenuationLe vel)			Step 7.
33		+ts_CMAC_HS_New_RN TI_Reconf (TRUE, tsc_CellF, tcv_CellInfoA.uRNTI, tcv_CellInfoA.cRNTI)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		+lt_SendCellUpdateCnf DCCH			
35		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			
36		+ts_CRLC_ReconfR LC_Size_r5 (FALSE)			
37		+ts_HO_SS_ReconfFACH_ToDCH_Sc rm_HS(tsc_CellF, tsc_CellA, tsc_DL_DPCH1_2 ndScrC ,tsc_Sfc256_C1)			
38		+ts_RRC_Receive PhyChReconfCm pl (tsc_CellA, tcv_CellInfoA.cell Config)			Step 9.
39		+ ts_CheckHSDS CH_ConfiguredI nUE (tsc_CellA)			
40		+ts_C3_Chec kCellDCH_HS (tsc_CellA)			Step 10.
41		lt_SendCellUpdateCnfDCCH			
42		[tcv_HS_Cfg.ul_DataRate = r64] UM ! RLC_UM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_RRC_CellUpdateCnfD CCH (tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDC CH_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, OMIT, tsc_NewHRNTI2, cell_DCH, tcv_CellInfoA.frequencyInfo , ul_DPCH_Info : (cb_UL_DPCH_InfoACK_H SENH (tsc_UL_DPDCH_SF_64k_ PS, pl0_96, tcv_CellInfoA.ul_Scramblin gCode,tcv_HS_Cfg)), cd_DL_CommonInformation DCH_DPCH_Offset_HS(tsc_DL_DPCH1_SFP_SRB _3_4k),c_DL_HSPDSCH_I nformation(c_HS_SCCH_In fo,c_Measurement_Feedbac		Step 8.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43			k_Info(tcv_HS_Cfg)), c_DL_InfoPerRL_SecScrm_ HS(tcv_CellInfoA.priScrmC ode,tsc_Sfc256_C1, tsc_DL_DPCH1_2ndScrC)))		
44		[tcv_HS_Cfg.ul_DataRate = r384] UM ! RLC_UM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_RRC_CellUpdateCnfD CCH (tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDC CH_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, OMIT, tsc_NewHRNTI2, cell_DCH, tcv_CellInfoA.frequencyInfo , ul_DPCH_Info : (cb_UL_DPCH_InfoACK_H SENH (tsc_Sf4, pl0_72, tcv_CellInfoA.ul_Scramblin gCode, tcv_HS_Cfg)), cd_DL_CommonInformation DCH_DPCH_Offset_HS(tsc_DL_DPCH1_SFP_SRB _3_4k),c_DL_HSPDSCH_I nformation(c_HS_SCCH_In fo,c_Measurement_Feedbac k_Info(tcv_HS_Cfg)), c_DL_InfoPerRL_SecScrm_ HS(tcv_CellInfoA.priScrmC ode,tsc_Sfc256_C1, tsc_DL_DPCH1_2ndScrC)))		Step 8.
Detailed Comments : (1) The Power of Cell F at T1 is required to go to -55dBm (2) The Power configured at T1 for Cell F -55dBm and for Cell A -72dBm. (3) The SS should continue to keep the dedicated channel configuration during the time when the L2 ack is sent to the UE. (4) The Power configured at T2 for Cell F -72dBm and for CellA -60dBm					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_3_1_34 Group : RRC/RRC_CellUpdate/ Purpose : To confirm that the UE stops HS-DSCH reception after a radio link failure in CELL_DCH during HS-DSCH reception. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Cell Update: Transition from CELL_DCH to CELL_FACH, stop of HS-DSCH reception					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariablesPS_HS			
4		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA)			
5)			
6		(
7		tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			
8		+pr_GotoState6_7_MO_HS_NewSIB1 (tsc_CellA, tcv_SIB1)			
9		+ts_SS_CreateCellFACH_r5 (tsc_CellB)			
10		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoB))			
11		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			
12		+ts_SendDefSysInfo_NewSIB1 (tsc_CellB, tcv_SIB1)			
13	TBE	(tcv_TestBody := TRUE)			
14		+lt_TestBody			
15	ERR1	(tcv_TestBody := FALSE)		I	Postamble
16	ERR2	+po_ConnectionAndSS_ReleaseHS			TDD specific behaviour
17		[px_RAT=tdd]			
18		[TRUE]		I	
19		lt_TestBody			
20		+lt_RRC_RAB_EstPS_MO_P25			Step 0
21		+ts_SetAttenuationLevel (tsc_CellB, 0)			Step 1
22		+ts_SS_SwitchCellOff (tsc_CellA)			Step 1
23		+ts_RRC_ReceiveCellUpdateNonPeriodic (			Step 3
24		tsc_CellB,			
25		cdr_CellUpdateAny_r5 (
26		tcv_CellInfoA.uRNTI, radiolinkFailure),			
27		(15000))			
28		(tcv_CellInfoB.uRNTI :=			
29		tcv_CellInfoA.uRNTI)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22	TSP	+ts_HO_SS_ReconfDCH_HS_ToFACH_Cfg1 (tsc_CellA, tsc_CellB)	cas_RRC_CellUpdateCnfDCCH(tsc_CellDedicated, tsc_RB1, cds_CellUpdateCnfDCCH_RLC_ReEst_HSENH (tsc_CellIndInfo.dl_Integrity CheckInfo, tsc_RRC_Ti, OMIT, tsc_CRNTI_Id4, OMIT, cell_FACH, OMIT, OMIT, OMIT, OMIT, OMIT))		Step 4.
23		+ts_CMACH_HS_New_RNTI_Reconf (TRUE, tsc_CellB, tcv_CellInfoB.uRNTI, tcv_CellInfoB.cRNTI)			
24		UM ! RLC_UM_DATA_REQ (tcv_CellInfoB.cRNTI := tsc_CRNTI_Id4)			
25		+ts_RRC_Delay(30)			
26		+ts_CMACH_HS_New_RNTI_Reconf (FALSE, tsc_CellB, tcv_CellInfoB.uRNTI, tcv_CellInfoB.cRNTI)			
27		+ts_CRLC_ReEst_SRBs			
28		+ts_RRC_ReceiverRB_Reconfig Cmpl (tsc_CellB)			Step 5.
29		lt_RRC_RAB_EstPS_MO_P25			
30		[tcv_RRC_RAB_Type = cell_DCH_HS_DSCH]			
31		+ ts_CalculateActTime (tsc_CellA)			
32		+ ts_SetTmpCellInfo (tsc_CellA)			
33		+ lt_SendRB_Setup			
34		AM ? RLC_AM_DATA_CNF			
35		+ ts_SS_HS_DSCH_PDSCH_Cfg_DPCH _Modify_MacQueue(tsc_CellA, 656)			
36		+ ts_SS_RB25_AM_PS_Cfg_656 (tsc_CellDedicated, 640)			
37		+ ts_RRC_ReceiverRB_SetupCmplHS (tsc_CellA, cell_DCH_HS_DSCH)			
38		+ ts_SetCellCfg (tsc_CellA, cell_DCH_HS_DSCH)			
39		+ts_SetTI_Rsp (tcv_TI_R)			
40		+ts_ReceiveActivatePDP_Accept _DCH_HS(tsc_CellA)			
		Ut ? AT_CmdCnf	ca_AT_CmdCnf		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
41		+ ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			R99 branch
42		[TRUE]			
43		+ ts_RRC_SetUpRAB (tsc_CellA, tcv_RAB_Id, tcv_RRC_RAB_Type)			
44		It_SendRB_Setup			
45		[tcv_HS_Cfg.ul_DataRate = r384] AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_108_RB_SetUpHS_FromMDCH_MacPDUsSize (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.ul_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))		
46		[tcv_HS_Cfg.ul_DataRate = r64]			
47		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_108_RB_SetUpHS_FromMDCH_UL_64k_MacPDUsSize (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.ul_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
)			
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_3_1_35 Group : RRC/RRC_CellUpdate/ Purpose : To confirm that the UE keeps the RB mapping option for HS-DSCH reception after a radio link failure in CELL_DCH during HS-DSCH reception. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Cell Update: Transition from CELL_DCH to CELL_DCH, with active HS-DSCH reception					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariablesPS_HS			
4		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			
5		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			
6		+pr_GotoState6_7_MO_HS_NewSIB1 (tsc_CellA, tcv_SIB1)			
7		+ts_SS_CreateCellFACH_r5 (tsc_CellB)			
8		+ts_SetAttenuationLevel (tsc_CellB, 15)			
9		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoB))			
10		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			
11		+ts_SendDefSysInfo_NewSIB1 (tsc_CellB, tcv_SIB1)			
12		(tcv_TestBody := TRUE)			
13		+lt_TestBody			
14	TBE	(tcv_TestBody := FALSE)			
15		+po_ConnectionAndSS_RelsHS			Postamble
16	ERR1	[px_RAT=tdt]		I	TDD specific behaviour
17	ERR2	[TRUE]		I	
18		lt_TestBody			Step 0
19		+ts_RRC_RAB_EstPS_MO_P25 (tsc_CellA, FALSE)			
20		+ts_SetAttenuationLevel (tsc_CellB, 0)			Step 1
21		+ts_SS_SwitchCellOff (tsc_CellA)			Step 1
22		+ts_RRC_ReceiveCellUpdateNonPeriodic (tsc_CellB, cdr_CellUpdateAny_r5 (tcv_CellInfoA.uRNTI, radiolinkFailure), (15000))			
		+ts_HO_SS_ReconfDCH_HS_ToFACH (tsc_CellA,tsc_CellB)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		+ts_CMAC_HS_New_RNTI_Reconf (TRUE, tsc_CellB, tcv_CellInfoA.uRNTI, tcv_CellInfoA.cRNTI)			
24		+lt_SendCellUpdateConfirmDCCH			Step 4
25		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			
26		+ts_CRLC_ReconfRLC_Size_r5 (FALSE)			
27		+ts_HO_SS_ReconfFACH_ToDC H_HS (tsc_CellB , tsc_CellB)			
28		+ts_RRC_ReceiveTrChReconfCm pl (tsc_CellB, tcv_CellInfoB.cellConfig)			Step 5
29		+ ts_CheckHSDSCH_Configured InUE (tsc_CellB)			
30		lt_SendCellUpdateConfirmDCCH			
31		[tcv_HS_Cfg.ul_DataRate = r384] UM ! RLC_UM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RRC_CellUpdateCnfD CCH (tsc_CellDedicated, tsc_RB1, cs_CellUpdateCnfDCCH_H SENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, OMIT, tsc_NewHRNTI, cell_DCH, OMIT, c_UL_CommTrChInfoDCH_ PS_384k_HSENH, c_DL_CommonTransChInfo DCH_r4 (c_TFCS_Cmpl0_1_Rx), c_DL_AddReconfTransChIn foList_2DCH_HS_PS_HSE NH (tcv_HS_Cfg.numberOfProc esses), ul_DPCH_Info : (cb_UL_DPCH_InfoACK_H SENH (tsc_Sf4, pl0_72, tcv_CellInfoB.ul_Scramblin gCode, tcv_HS_Cfg)), cd_DL_CommonInformation DCH_DPCH_Offset_HS(tsc_DL_DPCH1_SFP_SRB _3_4k),c_DL_HSPDSCH_I nformation(c_HS_SCCH_In fo,c_Measurement_Feedbac k_Info(tcv_HS_Cfg)), c_DL_InfoPerRL_HSENH(t cv_CellInfoB.priScrmCode,t sc_Sfc256_C0, tcv_TmpCell		Step 4

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		[tcv_HS_Cfg.ul_DataRate = r64]	Info.dl_DPCH_2ndScrCode)))		
33		UM ! RLC_UM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RRC_CellUpdateCnfD CCH (tsc_CellDedicated, tsc_RB1, cs_CellUpdateCnfDCCH_H SENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, OMIT, tsc_NewHRNTI, cell_DCH, OMIT, c_UL_CommTrChInfoDCH_ PS_64k_r4, c_DL_CommonTransChInfo DCH_r4 (c_TFCS_Cmpl0_1_Rx), c_DL_AddReconfTransChIn foList_2DCH_HS_PS_HSE NH (tcv_HS_Cfg.numberOfProc esses), ul_DPCH_Info : (cb_UL_DPCH_InfoACK_H SENH (tsc_UL_DPDCH_SF_64k_ PS, pl0_96, tcv_CellInfoB.ul_Scramblin gCode, tcv_HS_Cfg)), cd_DL_CommonInformation DCH_DPCH_Offset_HS(tsc_DL_DPCH1_SFP_SRB _3_4k),c_DL_HSPDSCH_I nformation(c_HS_SCCH_In fo,c_Measurement_Feedbac k_Info(tcv_HS_Cfg)), c_DL_InfoPerRL_HSENH (tcv_CellInfoB.priScrmCode ,tsc_Sfc256_C0, tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode)))		Step 4
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_6_40 Group : RRC/RRC_PhyCh_Reconf/ Purpose : To confirm that, when two radio links are used, the UE changes HS-DSCH specific uplink DPCH power control and measurement feedback configuration according to the received PHYSICAL CHANNEL RECONFIGURATION message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Two radio links, change of HS-PDSCH configuration)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		+lt_SetPowerLevels_T0			
4		+pr_GotoState6_17_MO (tsc_CellA)			
5		+ts_SS_CreateCellDCH_r5 (tsc_CellB)			
6		+ts_SendDefSysInfo (tsc_CellB)			
7	TBS	(tcv_TestBody := TRUE)			
8		+lt_TestBody			
9	TBE	(tcv_TestBody := FALSE)			
10		+po_ConnectionAndSS_RelsHS			Postamble
		lt_TestBody			
11		+ts_RRC_Delay(100)			
12		+ts_SetAttenuationLevel (tsc_CellB, tsc_AttLevToPower60_dBm)			Step 1 T1 power settings
13		+lt_ReceiveMeasReport			
14		+ts_SHO_ConfigureAdditionalDL_DPCH_HS (tsc_CellB, 1)			SS configuration
15		AM ! RLC_AM_DATA_REQ	cas_ActSetUpdate (tsc_CellDedicated, tsc_RB2, cs_ActSetUpdate (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, tcv_CellInfoB.priScrmCode, (((tcv_Tm+128) MOD 38400) / 256), tsc_Sfc256_C0, 1, FALSE, tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		Step 3 Active Set Update
16		START t_WaitMS			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	TBF1	? TIMEOUT t_WaitMS		(F)	
18	TBP3	AM ? RLC_AM_DATA_IND CANCEL t_WaitMS	car_ActSetUpdateCmpl (	(P)	Step 4
19		(tcv_HS_Cfg.ackNackRepetitionFactor:= 2, tcv_HS_Cfg.cqi_RepetitionFactor:=2)	tsc_CellDedicated, tsc_RB2, cr_108_ActSetUpdateCmpl (tcv_RRC_Ti))		Active Set Update Comple te
20		+ ts_CalculateActTime (tsc_CellA)			
21		+It_PhyChReconf			
22		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (
23		+It_Modify_HS_PDSCH_Info	tsc_CellDedicated, tsc_RB2, tsc_Mui)		SS reconfig uration
24		+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)			Step 6 Physical Channel Reconfig uration Comple te
25		+ ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			
26		+ts_C3_CheckCellDCH_HS (tsc_CellA)			Step 7
27		It_SetPowerLevels_T0 (tcv_CellInfoA.attenuationLevel := tsc_AttLevToPower60_dBm, tcv_CellInfoB.attenuationLevel := tsc_AttLevToPower70_dBm)			
28		It_ReceiveMeasReport			
28		START t_WaitMS			
29	TBF1	? TIMEOUT t_WaitMS		(F)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30	TBP1	AM ? RLC_AM_DATA_IND (tcv_Tm := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.measurementReport. measuredResults.intraFreqMeasuredResultsList.[0].cellSynchronisationInfo.modeSpecificInfo.fdd.t m) CANCEL t_WaitMS	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasurementReportIntra FreqEventActiveCellFirst (1, tcv_CellInfoA.priScrmCode, tcv_CellInfoB.priScrmCode, e1a))	(P)	Step 2 Measure ment Report Event 1a triggere d by cell2. ScrCode 1 first in message .
31	TBP2	AM ? RLC_AM_DATA_IND (tcv_Tm := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.measurementReport. measuredResults.intraFreqMeasuredResultsList.[0].cellSynchronisationInfo.modeSpecificInfo.fdd.t m) CANCEL t_WaitMS	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasurementReportIntra FreqEventMonitoredCellFirs t (1, tcv_CellInfoB.priScrmCode, tcv_CellInfoA.priScrmCode, e1a))	(P)	Step 2 Measure ment Report Event 1a triggere d by cell2. ScrCode 2 first in message .
32		It_PhyChReconf [tcv_HS_Cfg.ul_DataRate = r64]			
33		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_PhyChReconfWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_PhyChReconfHSDSCH _Mod_64K (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_Scramblin gCode, tcv_HS_Cfg))		Step 5 Physical Channel Reconfig uration
34		[tcv_HS_Cfg.ul_DataRate = r384]			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_PhyChReconfWithCnf (		Step 5
			tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_PhyChReconfHSDSCH _Mod_384K (		Physical Channel Reconfig uration
			tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT,		
			tcv_CellInfoA.priScrmCode,		
			tcv_CellInfoA.ul_Scramblin gCode,tcv_HS_Cfg))		
36		It_Modify_HS_PDSCH_Info CPHY ! CPHY_RL_Modify_REQ	ca_DL_HSDPSCH_ModifyI nfo (tsc_CellA, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSC H_PS_RAB (
			tcv_HS_Cfg.phyLayCatego ry, tcv_HS_Cfg.hRNTI,		
			c_DL_HSPDSCH_Informati on (
			c_HS_SCCH_Info,		
			c_Measurement_Feedback_I nfo_Rep2(tcv_HS_Cfg)),		
			FALSE,		
			tcv_HS_Cfg.hs_SCCH_Tx Po), tcv_ActTime)		
37		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (tsc_CellA, tsc_HSPDSCH)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_Info (tsc_CellA, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (
			c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses),		
			c_SS_AddOrReconfMAC_d Flow (
			c_SS_MAC_hs_AddReconf Queue		
			(c_MAC_hs_AddReconfQue ue336)),		
			tcv_HS_Cfg.ackNackRepeti tionFactor), tcv_ActTime)		
39		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (tsc_CellA, tsc_HSPDSCH)		
40		[tcv_HS_Cfg.ul_DataRate = r64]			
41		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_ HSENH_NoFollow(tsc_CellA, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_ HSENH (
			tsc_UL_DPDCH_SF_64k_ PS, pl0_96, tcv_CellInfoA.ul_Scramblin gCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
42		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (tsc_CellA, tsc_UL_DPCH1)		
43		[tcv_HS_Cfg.ul_DataRate = r384]			
44		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_ HSENH_NoFollow (tsc_CellA, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_ HSENH (tsc_Sf4, pl0_72, tcv_CellInfoA.ul_Scramblin gCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
45		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (tsc_CellA, tsc_UL_DPCH1)		
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_6_42 Group : RRC/RRC_PhyCh_Reconf/ Purpose : To confirm that the UE is able to perform a timing re-initialised hard handover to another frequency without prior measurement on the target frequency in conjunction with a serving HS-DSCH cell change according to the received PHYSICAL CHANNEL RECONFIGURATION message. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, Serving HS-DSCH cell change)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		+ts_RRC_InitVariablesPS_HS			
3		+pr_GotoState6_7_MO_HS (tsc_CellA)			
4		+ts_SS_CreateCellDCH_r5 (tsc_CellID)			
5		+ts_SendDefSysInfo (tsc_CellID)			
6	TBS	(tcv_TestBody := TRUE)			
7		+lt_TestBody			
8	TBE	(tcv_TestBody := FALSE)			
9		+po_ConnectionAndSS_RelsHS			Postamble
10		lt_TestBody +ts_RRC_RAB_EstPS_MO_P25 (tsc_CellA, TRUE)			Step 0. P25
11		(tcv_HS_Cfg.ackNackRepetitionFactor := 2)			
12		+ts_CalculateActTime (tsc_CellA)			
13		+lt_PhyChReconf			Step 1
14		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
15		+ts_HO_SS_ReconfDCH_HS_ToDCH_HS (tsc_CellA, tsc_CellID, cd_DL_DPCH_SRB_HS_TimInitDiff (OMIT, tsc_Sfc256))			SS Reconfiguration.
16		+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellID, tcv_CellInfoD.cellConfig)			Step 2 Physical Channel Reconfiguration Complete
17		+ ts_CheckHSDSCH_ConfiguredInUE (tsc_CellID)			
18		+ts_C3_CheckCellDCH_HS (tsc_CellID)			Call C.3
19		lt_PhyChReconf [tcv_HS_Cfg.ul_DataRate = r64]			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_PhyChReconfWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_PhyChReconf_FreqChange_64K (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoD.frequencyInfo , tcv_CellInfoD.priScrmCode, tcv_CellInfoD.uL_ScramblingCode,tcv_HS_Cfg))		Step 1 Physical Channel Reconfiguration
21		[tcv_HS_Cfg.ul_DataRate = r384]			
22		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI2)	cas_PhyChReconfWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_PhyChReconf_FreqChange_384K (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoD.frequencyInfo , tcv_CellInfoD.priScrmCode, tcv_CellInfoD.uL_ScramblingCode , tcv_HS_Cfg))		Step 1 Physical Channel Reconfiguration
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_2_6_49 Group : RRC/RRC_PhyCh_Reconf/ Purpose : To confirm that the UE transmits a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message and enter URA_PCH state after it received a PHYSICAL CHANNEL RECONFIGURATION message, which invokes the UE to transit from CELL_DCH with active HS-DSCH reception to URA_PCH. Configuration : Default : RRC_Def1 Comments : Selection Ref : RRC_FDD_HSDPA Description : Physical Channel Reconfiguration from CELL_DCH to URA_PCH: Success (stop of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBS	START t_Guard			FDD specific behaviour
2		[px_RAT=fdd]			
3		+ts_RRC_InitVariablesPS_HS			
4		+pr_GotoState6_17_MO (tsc_CellA)			
5		(tcv_TestBody := TRUE)			
6		+lt_TestBody			
7		(tcv_TestBody := FALSE)			
8		+po_ConnectionAndSS_RelsHS			
9	ERR1	[px_RAT=tdd]		I	Postamble TDD specific behaviour
10	ERR2	[TRUE]		I	Step 1. Physical Channel Reconfiguration.
11		lt_TestBody			
12		+ts_RRC_Delay (500)			
		AM ! RLC_AM_DATA_REQ			
13		+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA, tcv_CellInfoA.cellConfig)	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfDCH_To URA_PCH_HSENH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_CellInfoA.frequencyInfo , tcv_CellInfoA.priScrmCode , OMIT))		Step2. Physical Channel Reconfiguration Complete

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		(tcv_CellInfoA.dRX_CycleLength.uTRAN_DR X_CycleLength := 3)			
15		+ts_RRC_Delay (100)			
16		+ts_HO_SS_ReconfDCH_HS_ToFACH (tsc_CellA, tsc_CellA)			SS reconfig ure the Physical Channel
17		+ts_RRC_Delay (5000)			Step 3.
18		+ts_C5_CheckURA_PCH_r5 (tsc_CellA)			Step 4. Call C5
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_8_3_11_9 Group : InterRAT/CellChangeOrderUTRAN_ToGSM/ Purpose : To test that the UE shall be able to receive a CELL CHANGE ORDER FROM UTRAN message in CELL_DCH state when Radio bearers are mapped to HSDSCH channels and perform a cell change to another RAT, even if no prior UE measurements have been performed on the target cell and HS-PDSCH channels are active. The UE regards the procedure as completed when it has received a successful response from the target RAT, e.g. in case of GSM when it received the response to a (PACKET) CHANNEL REQUEST in the new cell. Configuration : Default : IntersystemGPRS Comments : Selection Ref : RRC_FDD_IR_GPRS_HSDPA Description : Inter-RAT cell change order from UTRAN to GPRS/CELL_DCH/Success (stop of HS-DSCH reception)					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT = fdd]			FDD specific behaviour
3		+lt_InitVariables			
4		+ts_SS_CreateCellDCH_r5 (tsc_CellA)			Configure lower tester
5		+ts_SendDefSysInfo_LongNeighCellInfo (tsc_CellA)			Sends the default system information in CellA
6		+ts_SendModifiedSysInfoSIB11_12(tsc_CellA)			
7		+ts_IdleUpdated_r5(tsc_CellA)			Idle Update and bring UE to CELL_DCH state and release the connection again
8		+ts_GERANCreateCell_r5(tsc_GSM_CellA, bcch, si2quater, nopsi5)			
9		+ts_GSM_SetCellPowerLevel2Ch(tsc_GSM_CellA, tsc_PhyCh0 , tsc_PhyCh1, tsc_ChPwrLvl_Off)			
10	TBS	(tcv_TestBody := TRUE)			
11		+ lt_LocalTest			
12	TBE	(tcv_TestBody := FALSE)		(P)	
13		+ lt_Postamble			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		+ts_Delete_GPRS_Entities(tsc_GSM_CellA, tsc_PhyCh1, tsc_LLEntity)			
15		+po_GPRS_SS_CellRelease (tsc_GSM_CellA)			
16		+ts_SS_Rel_HS(tsc_CellA)			
17	ERR1	[px_RAT = tdd]		(I)	
18	ERR2	[TRUE]		(I)	
		lt_LocalTest			
19		+ts_AT_OrgPS_CallHSDPA (tsc_CellA)			
20		+ ts_RRC_ConnEstPS_MO_P5_P6_r5 (tsc_CellA)			
21		+ ts_RRC_NAS_SessionActPS_MO_P9_P10_HS (tsc_CellA)			
22		+ ts_RRC_RAB_EstPS_MO_P25 (tsc_CellA, TRUE)			
23		+ ts_CheckHSDSCH_ConfiguredInUE (tsc_CellA)			
24		+ts_GSM_SetCellPowerLevel2Ch(tsc_GSM_CellA, tsc_PhyCh0 , tsc_PhyCh1, tsc_ChPwrLvl_High)			
25		+lt_SubTest			
		lt_InitVariables			
26		+ts_RRC_InitVariablesPS_HS			
27		+ts_GSM_InitVariablesAllBands_r5			
					Initialises the Variables depending on the GSM Band under usage.
28		+ts_GSM_InitVariablesSpecific40			
29		+ts_GPRS_InitVariablesDef			
30		(tcv_IdleSIB11_CellA := c_SIB11_3_Intra3_Inter2_InterRAT_Def (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_G_CellInfoA, tcv_G_CellInfoB), tcv_IdleSIB12_CellA := c_SIB12_3_Intra3_Inter2_InterRAT_Def (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_G_CellInfoA, tcv_G_CellInfoB))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		(tcv_CellInfoA.rac := '00'O)			According to the prose, LACs are the same
32		(tcv_GPRS_CipherAlg := px_GPRS_CipherAlg)			
33		It_SubTest AM ! RLC_AM_DATA_REQ	cas_CellChangeOrderFromUTRAN(tsc_CellDedicated, tsc_RB2, cs_CellChangeOrderFromUTRAN_GSM (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, c_InterRAT_TargetCellDescription(c_BSIC(o_OctToInt(o_BitToOct(tcv_G_CellConfigInfo.ncc)), o_OctToInt(o_BitToOct(tcv_G_CellConfigInfo.bcc))), tcv_G_CellConfigInfo.bandIndicatorAsn1, o_OctToInt(o_BitToOct(tcv_G_CellConfigInfo.bCCH_Freq))), OMIT)))		Send the Cell Change Order From UTRAN
34		+ts_UplinkTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)			Steps 5–6 Receive RACH and send immediate assignment to establish the TBF
35		[pc_G_operation_mode_C]			GPRS only
36	TBP1	G_LLC ? G_LLC_UNITDATA_IND (tcv_TmpRAU_ReqPDU := G_LLC_UNITDATA_IND.msg, tcv_TmpB3 := tcv_TmpRAU_ReqPDU.updateType.value, tcv_SplitPGCycle.splitPGcycleCode := tcv_TmpRAU_ReqPDU.drxParameter.splitPGcycleCode, tcv_SplitPGCycle.cnDRXcoef := tcv_TmpRAU_ReqPDU.drxParameter.cnDRXcoef, tcv_SplitPGCycle.splitOnCCCH := tcv_TmpRAU_ReqPDU.drxParameter.splitOnCCCH, tcv_SplitPGCycle.nonDRXtimer := tcv_TmpRAU_ReqPDU.drxParameter.nonDRXtimer)	car_G_LLC_UnitData_IND(tsc_GSM_CellA, cd_RA_UpdReqAny_Drx_r5 (c_GMM_UpdateType_v('0'B, '000'B), ?, ?))	(P)	step 7. Receive Routing Area Update Request message

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37		G_LLC ? G_LLC_UNITDATA_IND (tcv_TmpRAU_ReqPDU := G_LLC_UNITDATA_IND.msg, tcv_TmpB3 := tcv_TmpRAU_ReqPDU.updateType.value)	car_G_LLC_UnitData_IND(tsc_GSM_CellA, cd_RA_UpdReqAny_NoDrx_r5 (c_GMM_UpdateType_v('0'B, '000'B), ?, ?))	(P)	step 7. Receive Routing Area Update Request message
38		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_GSM_CellA, cbr_RA_UpdReqAny_r5 (?, ?, ?))	(F)	
39		[TRUE]			
40		G_LLC ? G_LLC_UNITDATA_IND (tcv_TmpRAU_ReqPDU := G_LLC_UNITDATA_IND.msg, tcv_TmpB3 := tcv_TmpRAU_ReqPDU.updateType.value, tcv_SplitPGCycle.splitPGcycleCode := tcv_TmpRAU_ReqPDU.drxParameter.splitPG cycleCode, tcv_SplitPGCycle.cnDRXcoef := tcv_TmpRAU_ReqPDU.drxParameter.cnDRX coef, tcv_SplitPGCycle.splitOnCCCH := tcv_TmpRAU_ReqPDU.drxParameter.splitOn CCCH, tcv_SplitPGCycle.nonDRXtimer := tcv_TmpRAU_ReqPDU.drxParameter.nonDR Xtimer)	car_G_LLC_UnitData_IND(tsc_GSM_CellA, cd_RA_UpdReqAny_Drx_r5 (c_GMM_UpdateType_v('0'B, '001'B), ?, ?))	(P)	step 7. Receive Routing Area Update Request message .
41		G_LLC ? G_LLC_UNITDATA_IND (tcv_TmpRAU_ReqPDU := G_LLC_UNITDATA_IND.msg, tcv_TmpB3 := tcv_TmpRAU_ReqPDU.updateType.value)	car_G_LLC_UnitData_IND(tsc_GSM_CellA, cd_RA_UpdReqAny_NoDrx_r5 (c_GMM_UpdateType_v('0'B, '001'B), ?, ?))	(P)	step 7. Receive Routing Area Update Request message .
42		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_GSM_CellA, cbr_RA_UpdReqAny_r5 (?, ?, ?))	(F)	
43		lt_Postamble +lt_SendRAUAcpt			Send RAU Accept either ciphered or uncipher ed
44		+ts_UplinkTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)			
45		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_RA_UpdComplete)		
46		+ ts_InitialiseDlyAndTrafficClass			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
47		(tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_Iv(tcv_DlyClass, tcv_TrafficClass), tcv_QoS_Iv.peakThroughput := '0011'B, tcv_TI_S.tiFlag:= '1'B)			
48		+ts_G_ModifyPDP_Context_AcceptOrDe activate(tsc_GSM_CellA, tsc_PhyCh1, c_LLC_SAPI_11, tcv_QoS_Iv)			
49		[tcv_Count = 1]			
50		[TRUE]			
51		+ts_G_DetachOnSwitchOff (tsc_GSM_CellA)			
52		It_SendRAUAcpt [NOT px_CipheringOnOff]			Send uncipher ed
53		+ts_DownlinkTBFEstablishment(tsc_GSM_CellA, tsc_PhyCh1, bcch)			
54		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLCsapi_GMM, tsc_LLC_PM, tsc_LLC_NoCiph, cs_RA_UpdAcc3_r5 (c_GMM_UpdateResult_v(tcv_TmpB3), c_RAI_v (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -, c_PDP_ContextStatus))		
55		[px_CipheringOnOff]			
56		+ts_LLC_TLLI_Assign(tsc_GSM_CellA, tcv_TLLI, tcv_TLLI, px_CipherAlg)			don't change the TLLI, only the cipherin g algorithm
57		+ts_DownlinkTBFEstablishment(tsc_GSM_Cell A, tsc_PhyCh1, bcch)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
58		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEntity, tcv_TLLI, tsc_LLCSapi_GMM, tsc_LLC_PM, tsc_LLC_Cipher, cs_RA_UpdAcc3_r5 (c_GMM_UpdateResult_v(tcv_TmpB3), c_RAI_v (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -, c_PDP_ContextStatus))		
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_14_6_1 Group : CombinationOnDPCH/HSDPA/ Purpose : To verify radio bearer establishment and correct data transfer for reference radio bearer configuration as specified in TS 34.108, clause 6.10.2.4.5.1 Configuration : Default : RRC_Def1 Comments : Selection Ref : RB_Intr_Backgr_C373 Description : Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBE1	START t_Guard			Initial Test Case Variables to set UL to 64 KBPS
2		+ ts_RRC_InitVariablesPS_HS			
3		(tcv_HS_Cfg.ul_DataRate:=r64)			
4		+lt_Interactive			
5		+lt_Background			
6		lt_Interactive			Steps 1–10
7		[pc_Interactive]			
8		+pr_GotoState6_7_MT_LoopBack_Cause (tsc_CellA, terminatingInteractiveCall, terminatingInteractiveCall)			
9		+ts_RB_SubTest_RB25_HS (1,tsc_RB_TestData_41984,c_TFC_Allowed_0_1_5_6,c_UE_TestLoopMode1_LB_Setup (312, tsc_RB25), 336)			Subtest 1 Steps 15–18
10		+ts_RB_SubTest_RB25_HS (2,tsc_RB_TestData_41984, c_TFC_Allowed_0_1_2_5_7, c_UE_TestLoopMode1_LB_Setup (632, tsc_RB25), 656)			Subtest 2 Steps 15–18
11		+ ts_RB_SubTest_RB25_HS (3,tsc_RB_TestData_41984, c_TFC_Allowed_0_1_3_5_8, c_UE_TestLoopMode1_LB_Setup (952, tsc_RB25), 336)			Subtest 3 Steps 15–18
12		+ ts_RB_SubTest_RB25_HS (4,tsc_RB_TestData_41984, c_TFC_Allowed_0_1_4_5_9, c_UE_TestLoopMode1_LB_Setup (1272, tsc_RB25), 656)			Subtest 4 Steps 15–18
13		(tcv_TestBody := FALSE)			Steps 20–21
14		+ ts_TC_DeactivateRB_TestMode (tsc_CellDedicated)			
15		+ts_RRC_ConnRel_r5 (tsc_CellA , cell_Dch)			
16		+ts_GMM_DetachOnSwitchOff(tsc_CellA)			
16		+ po_ConnectionAndSS_Rel_r5 (tsc_CellA)			

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Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
17	TBE1	[TRUE]				
		lt_Background				
18		[pc_Background]				
19		+pr_GotoState6_7_MT_LoopBack_Cause (tsc_CellA, terminatingBackgroundCall, terminatingBackgroundCall)				Steps 1–10
20		+ts_RB_SubTest_RB25_HS (1,tsc_RB_TestData_41984,c_TFC_Allowed_0_ 1_5_6,c_UE_TestLoopMode1_LB_Setup (312, tsc_RB25), 336)				Subtest 1 Steps 15–18
21		+ts_RB_SubTest_RB25_HS (2,tsc_RB_TestData_41984, c_TFC_Allowed_0_1_2_5_7, c_UE_TestLoopMode1_LB_Setup (632, tsc_RB25), 656)				Subtest 2 Steps 15–18
22		+ ts_RB_SubTest_RB25_HS (3,tsc_RB_TestData_41984, c_TFC_Allowed_0_1_3_5_8, c_UE_TestLoopMode1_LB_Setup (952, tsc_RB25), 336)				Subtest 3 Steps 15–18
23		+ ts_RB_SubTest_RB25_HS (4,tsc_RB_TestData_41984, c_TFC_Allowed_0_1_4_5_9, c_UE_TestLoopMode1_LB_Setup (1272, tsc_RB25), 656)				Subtest 4 Steps 15–18
24		(tcv_TestBody := FALSE)				Steps 20–21
25		+ ts_TC_DeactivateRB_TestMode (tsc_CellDedicated)				
26		+ts_RRC_ConnRel_r5 (tsc_CellA , cell_Dch)				
27		+ts_GMM_DetachOnSwitchOff(tsc_CellA)				
28	+ po_ConnectionAndSS_Rel_r5 (tsc_CellA)					
29		[TRUE]				
Detailed Comments :						

Test Case Dynamic Behaviour					
Test Case Name : tc_7_1_5_1 Group : HS_DSCH_MAC_HS/ Purpose : 1.To confirm that the UE performs MAC-hs reordering and delivers RLC PDUs in order to RLC. 2.To confirm that the UE performs stall avoidance in case of missing MAC-hs PDUs based on a) window based stall avoidance and b) timer based stall avoidance. Configuration : Default : MAC_Default,RRR_Def1 Comments : Reference: TS 25.321 clauses 11.6.2.3.1, 11.6.2.3.2 Selection Ref : AllHSDPA_UE Description : MAC-hs reordering and stall avoidance					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard(300)			
2		[(px_CipheringOnOff = FALSE) AND (px_RAT =fdd)]			Ciphering is Disabled and FDD supported
3		+lt_Preamble			
4		+lt_TestBody			
5		+po_ConnectionAndSS_RelHS(tsc_CellA)			
6		[TRUE]		I	
		lt_Preamble			
7		+ ts_RRC_InitVariablesPS_HS			
8		+pr_GotoState6_7_MT_LoopBack (tsc_CellA)			
9		+ts_CalculateActTime_r5(tsc_CellA)			
10		+ts_RRC_SetUpRAB_HS_LoopBack (tsc_CellA,tcv_RAB_Id, tcv_ActTime,tsc_Payload_365, cd_MAC_hs_AddReconfQueue365_Special_SS, cds_108_RB_SetUpHS_FromDCH_UL_64k_LoopBack_AM (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.uL_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))			
11		+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB25))			
		lt_TestBody			
12	TBS	(tcv_TestBody := TRUE)			
13		+ lt_Step1_4			
14		+ lt_Step5_6			
15		+ lt_Step7_8			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16	TBE	+ It_Step9_10			
17		+ It_Step11_12			
18		+ It_Step13_14			
19		+ It_Step15_16			
20		(tcv_TestBody := FALSE)			
21		It_Step1_4 TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_0, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(0, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 1
22		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(0, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 2
23		TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_1, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 3
24		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 4
25		It_Step5_6 TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_0, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 5

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26	loop1	TM ! TxMAC START t_WaitMS	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_1, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))	(F)	Step 6 To further receive PDU's step
27		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs_AnySQN(c_LIsAny, ?))		
28		-> loop1			
29		? TIMEOUT t_WaitMS			
30		It_Step7_8 (tcv_FLAG :=FALSE)			
31		TM ! TxMAC START t_WaitMS(300)	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_3, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs_Poll (3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 7 T1 is 400 ms, value of 300 is selected so as to cater for SS/UE toleranc e of 10% and time to transmit another MAC-H S PDU
32		TM ? RxMAC (tcv_FLAG :=TRUE) CANCEL t_WaitMS	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
33		TM ? RLC_TR_TestDataInd	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))	(F)	
34		TM ? RLC_TR_TestDataInd CANCEL t_WaitMS	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))	(F)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35		TM ? RxMAC (tcv_FLAG :=TRUE)	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
36		?TIMEOUT t_WaitMS		(P)	
37	It_Step9_10	TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_2, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM)) , tsc_PAD_8Bit))		Step 9
38		[tcv_FLAG = FALSE]			The order can be any for SQN 2, SQN 3 Status, except, SQN 2 will come before SQN 3, due to insequen ce delivery in UE
39		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		SQN 2
40		TM ? RLC_TR_TestDataInd	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		Status PDU
41		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		SQN 3
42		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		SQN 3

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		TM ? RLC_TR_TestDataInd	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		Status PDU
44		TM ? RLC_TR_TestDataInd CANCEL t_WaitMS	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		Status
45		TM ? RxMAC (tcv_FLAG :=TRUE)	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		SQN2
46		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		SQN3
47		[tcv_FLAG = TRUE]			The order can be any for SQN 3 Status, except, SQN 3
48		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		
49		It_Step11_12 (tcv_FLAG :=FALSE)			
50		TM ! TxMAC START t_WaitMS(300)	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_6, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(4, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM)) , tsc_PAD_8Bit))		step 11
51		TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_7, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(5, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM)) , tsc_PAD_8Bit))		step 12

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52		TM ? RxMAC (tcv_FLAG :=TRUE) CANCEL t_WaitMS	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(4, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
53		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(5, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
54		?TIMEOUT t_WaitMS		(P)	
55		It_Step13_14 TM ! TxMAC START t_LowerBound(360), START t_UpperBound(660)	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_38, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(6, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM)) , tsc_PAD_8Bit))		step 13 Lower Bound Timer is T1 with -10% Toleranc e Upper Bound = T1+ 10%+11 TTI Loop Back delay=40 0+40+2 20=660
56		[tcv_FLAG =FALSE]			
57		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(4, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		
58		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(5, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		
59		[tcv_FLAG =TRUE]			
60		It_Step15_16 TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(6, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
61		? TIMEOUT t_LowerBound		(P)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62		TM ? RxMAC CANCEL t_UpperBound	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(6, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(P)	
63		? TIMEOUT t_UpperBound		(F)	
64		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(6, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_7_1_5_3 Group : HS_DSCH_MAC_HS/ Purpose : 1. To confirm that the UE discards PDUs with reserved values of the fields in the MAC header 2. To confirm that the UE discards PDUs with values in the MAC header that are inconsistent with the RRC configuration. 3. To confirm that the UE correctly reads the MAC header and disassembles the MAC-hs PDU into MAC-d PDUs and delivers the MAC-d PDUs to the RLC layer. Configuration : Default : MAC_Default, RRC_Def1 Comments : Reference: TS 25.321 clauses 9.1.4, 9.2.2, 10 Selection Ref : AllHSDPA_UE Description : MAC-hs PDU header handling					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard(300)			
2		[(px_CipheringOnOff = FALSE) AND (px_RAT =fdd)]			Ciphering is Disabled and FDD supported
3		+ It_Preamble			
4		+It_TestBody			
5		+po_ConnectionAndSS_RelHS(tsc_CellA)			
6		[TRUE]		I	
		It_Preamble			
7		+It_InitVariables			
8		+pr_GotoState6_7_MT_LoopBack (tsc_CellA)			
9		+ts_CalculateActTime_r5(tsc_CellA)			
10		+ts_RRC_SetUpRAB_HS_LoopBack (tsc_CellA, tcv_RAB_Id, tcv_ActTime, tsc_Payload_1974, c_MAC_hs_AddReconfQueue1974, cds_108_RB_SetUpHS_FromDCH_UL_64k_LoopBack_2PDUSize (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.ul_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))			
11		+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB25))			
12	TBS	It_TestBody (tcv_TestBody := TRUE)			

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Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
13	TBE	TM ! TxMAC START t_WaitMS	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_7_1_5_3 ('1'B, tsc_TSN_0,tsc_SID_0, tsc_SID_1))		Step 1	
14		+ It_Check_NoDataLoopBacked	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_7_1_5_3 ('0'B, tsc_TSN_0,tsc_SID_2, tsc_SID_3))		Step 2	
15		TM ! TxMAC START t_WaitMS			Step 3	
16		+ It_Check_NoDataLoopBacked			Step 4	
17		TM ! TxMAC START t_WaitMS			Step 5	
18		+ It_ReceiveLoopBackData			Step 6	
19		(tcv_TestBody := FALSE)				
20		It_InitVariables				
21		+ ts_RRC_InitVariablesPS_HS (tcv_HS_Cfg.noOfChannelisatonCodes :=4, tcv_HS_Cfg.tbSizeIndexOnHS_SCCH:=27, tcv_HS_Cfg.hs_PDSCH_TxPower:=10)			Values set correspo nding to ki=27, ko,i=79= >kt=106 => TFRC size =1974(as 21 MAC_H fixed header+ 7* 11 MAC-h -Header extensio n (136 +328) *4=1954 =>20bit MAC_H padding)	
22		It_Check_NoDataLoopBacked [TRUE]				
23		? TIMEOUT t_WaitMS	(P)			
24		TM ? RxMAC	(F)			
			</			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25	loop2	-> loop1	car_TestDataInd(tsc_RB_M AC_HS, c_UMD_LIs(tcv_MAC_Counter, ?, ?))	(F)	To further receive PDU's
26		lt_ReceiveLoopBackData (tcv_MAC_Counter := 0)			Timer Expired before all PDU's loop Backed
27		? TIMEOUT t_WaitMS			
28		TM ? RxMAC (tcv_MAC_Counter := tcv_MAC_Counter+1)				Step 2
29		[tcv_MAC_Counter < 8]		(P)	all loop back PDU's not received
30		-> loop2			all loop back PDU's received
31		[tcv_MAC_Counter = 8]			
32		CANCEL t_WaitMS			
Detailed Comments : 1. PAGE UE					

Test Case Dynamic Behaviour					
Test Case Name : tc_7_1_5_4 Group : HS_DSCH_MAC_HS/ Purpose : 1. To confirm that the UE correctly transmit positive and negative acknowledgements when receiving MAC-hs PDUs Configuration : Default : MAC_Default,RRC_Def1 Comments : Reference: TS 25.321 clauses 11.6.22 Selection Ref : AllHSDPA_UE Description : MAC-hs retransmissions					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard(300)			
2		[(px_CipheringOnOff = FALSE) AND (px_RAT =fdd)]			Ciphering is Disabled and FDD supported
3		+lt_Preamble			
4		+lt_TestBody			
5		+po_ConnectionAndSS_RelHS(tsc_CellA)			
6		[TRUE]		I	
7		lt_Preamble			
8		+ ts_RRC_InitVariablesPS_HS (tcv_HS_Cfg.numberOfProcesses:=8)			explicitly set for all UE. number of processes as 8
9		+pr_GotoState6_7_MT_LoopBack (tsc_CellA)			
10		+ts_CalculateActTime_r5(tsc_CellA)			
11		+ts_RRC_SetUpRAB_HS_LoopBack (tsc_CellA,tcv_RAB_Id, tcv_ActTime,tsc_Payload_365, cd_MAC_hs_AddReconfQueue365_Special_SS, cds_108_RB_SetUpHS_FromDCH_UL_64 k_LoopBack_AM (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.uL_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12	TBS	+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB25))			
13		It_TestBody			
14		(tcv_TestBody := TRUE)			
15		+ ts_SubTest7_1_5_4(0, tsc_TSN_0, 0)			loop 1
16		+ ts_SubTest7_1_5_4(1, tsc_TSN_1, 1)			loop 2
17		+ ts_SubTest7_1_5_4(2, tsc_TSN_2, 2)			loop 3
18		+ ts_SubTest7_1_5_4(3, tsc_TSN_3, 3)			loop 4
19		+ ts_SubTest7_1_5_4(4, tsc_TSN_4, 4)			loop 5
20	TBE	+ ts_SubTest7_1_5_4(5, tsc_TSN_5, 5)			loop 6
21		+ ts_SubTest7_1_5_4(6, tsc_TSN_6, 6)			loop 7
22		+ ts_SubTest7_1_5_4(7, tsc_TSN_7, 7)			loop 8
		(tcv_TestBody := FALSE)			
Detailed Comments :					

Test Case Dynamic Behaviour					
Test Case Name : tc_7_1_5_5 Group : HS_DSCH_MAC_HS/ Purpose : 1. To confirm that the UE flushes the reordering buffer and delivers all MAC-d PDUs in the buffer to higher layers upon reset. 2. To confirm that the UE initializes the TSN and next_expected_TSN to their initial values. 3. To confirm that the UE sends an RLC status report after the reset. Configuration : Default : MAC_Default,RRC_Def1 Comments : Reference: TS 25.321 clauses 11.6.2.3.1, 11.6.2.3.2 Selection Ref : AllHSDPA_UE Description : MAC-hs reset					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard(300)			
2		[(px_CipheringOnOff = FALSE) AND (px_RAT =fdd)]			Ciphering is Disabled and FDD supported
3		+ It_Preamble			
4		+It_TestBody			
5		+po_ConnectionAndSS_RelHS(tsc_CellA)			
6		[TRUE]		I	
		It_Preamble			
7		+ ts_RRC_InitVariablesPS_HS			
8		+pr_GotoState6_7_MT_LoopBack (tsc_CellA)			
9		+ts_CalculateActTime_r5(tsc_CellA)			
10		+ts_RRC_SetUpRAB_HS_LoopBack (tsc_CellA,tcv_RAB_Id, tcv_ActTime,tsc_Payload_365, cd_MAC_hs_AddReconfQueue365_Special_SS, cds_108_RB_SetUpHS_FromDCH_UL_64k_LoopBack_AM (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_CellInfoA.uL_ScramblingCode, tcv_CellInfoA.priScrmCode, tcv_HS_Cfg))			
11		+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB25))			
		It_TestBody			
12	TBS	(tcv_TestBody := TRUE)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_0, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(0, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 1
14		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(0, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 2
15		TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_2, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 3
16		TM ! TxMAC	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, tsc_TSN_3, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM) , tsc_PAD_8Bit))		Step 4
17		AM ! RLC_AM_DATA_REQ	cas_PhyChReconf(tsc_CellDedicated, tsc_RB2, cs_PhysicalChannelReconfig uration_Mac_H_Reset(tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT, OMIT, tcv_HS_Cfg.hRNTI, tcv_CellInfoA.ul_Scramblin gCode, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.dl_DPCH_2n dScrCode, tcv_HS_Cfg)		step 5 No Activatio n time as very tight due to Timer T1 is just 400 ms.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		+ It_Step6_8	)		local tree caters for any order of Status, SQn1, SN2, but order maintained for SQN1 and 2
19		+ It_CheckSqn			IS this needed?
20		TM ! TxMAC	cas_TestDataReq(tsc_RB_MAC_HS, cs_MAC_H_PDU_1SID(tsc_QID_0, tsc_TSN_0, tsc_SID_0, tsc_NumOfPDU_1, cs_MAC_D_PDU_NoHeader_AMD(c_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM), tsc_PAD_8Bit))		Step 1
21		TM ? RxMAC	car_TestDataInd(tsc_RB_MAC_HS, cr_AMD_LIs(3, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 2
22	TBE	(tcv_TestBody := FALSE)			
23		It_Tx_StatusAckSN(p_TSN : B6;p_LSN:INTEGER) TM ! TxMAC	cas_TestDataReq(tsc_RB_MAC_HS, cs_MAC_H_PDU_1SID(tsc_QID_0, p_TSN, tsc_SID_0, tsc_NumOfPDU_1, cs_MAC_D_PDU_NoHeader_AM_Status(cs_StatusAndPad(cs_SF_Ack(p_LSN), 79)), tsc_PAD_8Bit))		Step 3 AMC header =4 Bits ACK Sufi =(4+12) bits => Padding = 336-20 =316 bits=79 H
24		It_Step6_8 AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconfCmpl (tcv_RRC_Ti))	(P)	step 6

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
26		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7 RLC SDU with SN 1 will come before SN 2 due to insequen ce delivery in UE RLC
27		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
28		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7 RLC SDU with SN 1 will come before SN 2 due to insequen ce delivery in UE RLC
29		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
30		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
31		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
33		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
34		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7 RLC SDU with SN 1 will come before SN 2 due to insequen ce delivery in UE RLC
35		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
36		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6
37		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6
38		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
39		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
40		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7 RLC SDU with SN 1 will come before SN 2 due to insequen ce delivery in UE RLC
41		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
42		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(1, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7 RLC SDU with SN 1 will come before SN 2 due to insequen ce delivery in UE RLC
43		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
44		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
45		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2,	(P)	step 6
46		AM ?RLC_AM_DATA_IND CANCEL	cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti)) car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
47		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
48		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
49		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
50		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6
51		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6
52		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
53		AM ?RLC_AM_DATA_IND CANCEL	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconf Cmpl (tcv_RRC_Ti))	(P)	step 6
54		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
55		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		
56		TM ? RLC_TR_TestDataInd (tcv_RecStatusPDU := RLC_TR_TestDataInd.data)	car_TestDataInd(tsc_RB_M AC_HS, cr_MAC_D_PDU_NoHeade r_AM_Status(cr_StatusAnyPad))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
57		TM ? RxMAC	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(2, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))		Step 7
58		It_CheckSqn (tcv_RecStatusMatchRes := o_SUFI_Handler(cr_SUFI_ParamsAck(INT_TO_BIT (0,12) , INT_TO_BIT (2,12), *, *, *, *, *),tcv_RecStatusPDU.statusAM.superFieldsRec))			Assumpt ion: As 25.331 specifies , First MAC-D PDUs are disassam bled and then RLC informed for Status Tx, all PDUs 0 to 2 must be received by RLC
59		[tcv_RecStatusMatchRes.result = TRUE]		(P)	
60		[TRUE]		(F)	
Detailed Comments : 1. PAGE UE					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_8_MO_HS_NewSIB1 (<p> p_CellId : INTEGER; p_SIB : SysInfoType1) </p> Group : HSDPA_Preambles/ Objective : To bring UE to state 6–8 for PS HSDPA on cell_FACH using a MO call (with a SIB1 different from the default). Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour
2		+ts_SS_CreateCellFACH_r5 (p_CellId)			Configure lower tester
3		+ts_SendDefSysInfo_NewSIB1 (p_CellId, p_SIB)			Sends the default system information in p_CellId
4		+ts_IdleUpdated_r5 (p_CellId)			Idle Update and bring UE to CELL_DCH state and release the connection again
5		+ts_AT_OrgPS_CallHSDPA (p_CellId)			
6		+ts_RRC_ConnEstPS_MO_P5_P6_r5 (p_CellId)			
7		+ts_RRC_NAS_SessionActPS_MO_P9_P10_HS (p_CellId)			
8	ERR1	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_17_MO_NewSIB1 (p_CellId : INTEGER; p_SIB : SysInfoType1) Group : HSDPA_Preambles/ Objective : To goto state 6–17 with a special SIB1 Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour
2		+pr_GotoState6_7_MO_HS_NewSIB1 (p_CellId, p_SIB)			Configure lower tester with special SIB1
3		+ ts_RRC_RAB_EstPS_MO_P25 (p_CellId, FALSE)			
4		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_DL_DPCH_Cfg_HS (p_CellId : INTEGER; p_DL_CommonInformation : DL_CommonInformation_r5) Group : HSDPA_SS_Steps/ Objective : To configure SS DL DPCH associated with HS_PDSCH with timing initialized (Hard Handover cases). Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		CPHY ! CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_PS_Offset_ HSENH (p_DL_CommonInformation, tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode, tsc_Sfc256_C0))		
3		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_DL_DPCH1)		
4		CPHY ! CPHY_TrCH_Config_REQ	ca_DCH_148_DL_ActNow (p_CellId, tsc_DL_DPCH1)		
5		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_DL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_34_StandAl one, c_TrLogMappingDL_4DCC H)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfDCH_ToDCH_HS (p_OldCellId, p_NewCellId : INTEGER; p_DL_CommonInformation : DL_CommonInformation_r5) Group : HSDPA_SS_Steps/ Objective : To switch cell from DCH signalling in the old cell to DCH with HS_DSCH state in the new cell : 1> release DPCH in the old cell 2> reconfigure CMAC in the old cell: CMAC-Reconf(old cell) 3> create DPCH in the new cell: CPHY-RL-Setup (new cell), CPHY-TrCh-Config (new cell), CMAC-Config (Cell-1) This Step assumes that PS RAB created is RB25 This step if oldCellId and NewCellId is passed as same, will configure the same cell Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_OldCellId)			
2		+ts_SS_RelDPCH_NotMAC (p_OldCellId)			
3		+ts_SetTmpCellInfo (p_NewCellId)			
4		+ts_HO_SS_DL_DPCH_Cfg_HS (p_NewCellId, p_DL_CommonInformation)			DL SRB's data rate downgraded from 13.6 to 3.4kbps.
5		+ts_SS_HS_DSCH_PDSCH_Cfg (p_NewCellId)			HS-DSCH configured
6		+lt_SS_Config_UL_DPCH_384k_PS			UL PS restricted to 64kbps
7		lt_SS_Config_UL_DPCH_384k_PS CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_NewCellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_H SENH (tsc_Sf4, pl0_72, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
8		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_UL_DPCH1)		
9		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_NewCellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_Info384k_ActNow)		
10		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_NewCellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148_38 4k, cd_TrLogMappingUL_4DC CH_1DTCH_HS)		
12		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfDCH_ToDCH_HS_64k_UL (p_OldCellId, p_NewCellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : SS reconfiguration for the establishment of a PS RAB mapped on HS-DSCH using a 384kbps UL DCH restricted to 64kbps at the same time as performing a timing re-initialized Hard Handover. Activation Time: Now Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_OldCellId)			
2		+ts_SS_RelDPCH_NotMAC (p_OldCellId)			
3		+ts_SetTmpCellInfo (p_NewCellId)			
4		+ts_HO_SS_DL_DPCH_Cfg_HS (p_NewCellId, cd_DL_CommonInformationDCH_DPCH_Of fset_HS (tsc_DL_DPCH1_SFP_SRB_3_4k))			DL SRB's data rate downgraded from 13.6 to 3.4kbps.
5		+ts_SS_HS_DSCH_PDSCH_Cfg (p_NewCellId)			HS-DSCH configured
6		+lt_SS_Config_UL_DPCH_384k_PS_64k_Restriction			UL PS restricted to 64kbps
7		lt_SS_Config_UL_DPCH_384k_PS_64k_Restriction CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_NewCellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_H SENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
8		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_UL_DPCH1)		
9		CPHY ! CPHY_TrCH_Config_REQ	ca_2_DCH_UL_Info (p_NewCellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, c_DCH_148_TFS_UL, c_DCH_336_TFS_34_UL_10_TC, c_TFCS_Cmpl0_To11_Rx_64k_Restriction, activateNow : NULL)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_NewCellId, tsc_UL_DPCH1)		
11		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfo_UL_2_DCH (c_DCH_148_TFS_UL, c_DCH_336_TFS_34_UL_10_TC, c_TFCS_Cmpl0_To11_Rx_64k_Restriction), cd_TrLogMappingUL_4DCH_1DTCH_HS)		
12		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfFACH_ToDCH_HS_Cfg2 (p_OldCellId, p_NewCellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : To switch cell from FACH to DCH with HS_DSCH state: 1> reconfigure CMAC in the old cell: CMAC-Reconf(old cell) 2> create DPCH in the new cell: CPHY-RL-Setup (new cell), CPHY-TrCh-Config (new cell), CMAC-Config (Cell-1) with UL 384 kbps restricted to 64k This Step assumes that PS RAB created is RB25 This step if oldCellId and NewCellId is passed as same, will configure the same cell Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_OldCellId)			
2		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_OldCellId, tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCCH to PCH + Map CCCH to FACH
3		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_OldCellId, tsc_S_CCPCH1)		
4		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_OldCellId, tsc_PRACH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to RACH
5		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_OldCellId, tsc_PRACH1)		
6		+ItCheckInterCell			
7		+ts_SS_DL_DPCH_Cfg_HS (p_NewCellId)			Configur ation of DL DPCH
8		+ts_SS_HS_DSCH_PDSCH_Cfg2 (p_NewCellId)			Configur ation of HS-DS CH
9		+It_SS_UL_DPCH_384_Restr64_Cfg_HS			Configur ation of UL DPCH
10		+ts_SS_RB25_AM_PS_Cfg2 (320)			Configur ation of RB25
11		+ts_SetCellCfg (p_NewCellId, cell_DCH_HS_DSCH)			
		It_SS_UL_DPCH_384_Restr64_Cfg_HS			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_NewCellId, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_ HSENH (tsc_UL_DPDCH_SF_64k_ PS, pl0_96, tcv_TmpCellInfo.ul_Scrambl ingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
13		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_UL_DPCH1)		
14		CPHY ! CPHY_TrCH_Config_REQ	ca_2_DCH_UL_Info (p_NewCellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, c_DCH_148_TFS_UL, c_DCH_336_TFS_34_UL_1 0_TC, c_TFCS_Cmpl0_To11_Rx_6 4k_Restriction, activateNow : NULL)		
15		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_NewCellId, tsc_UL_DPCH1)		
16		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfo_UL_2_DCH (c_DCH_148_TFS_UL, c_DCH_336_TFS_34_UL_1 0_TC, c_TFCS_Cmpl0_To11_Rx_6 4k_Restriction), cd_TrLogMappingUL_4DC CH_1DTCH_HS)		
17		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
18		ItCheckInterCell [p_OldCellId <> p_NewCellId]			If Inter cell HO
19		+ts_SetCellCfg (p_OldCellId, cell_FACH_NoDedicated)			
20		+ts_SetTmpCellInfo (p_NewCellId)			
21		[TRUE]			If cell is same
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg2 (p_CellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : To configure SS with HSDPA related RL, Transport and MAC DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_RL_Setup_REQ	ca_DL_HSPDSCH_Info (p_CellId, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSC H_PS_RAB (
			tcv_HS_Cfg.phyLayCatego ry, tcv_HS_Cfg.hRNTI,		
			c_DL_HSPDSCH_Informati on (
			c_HS_SCCH_Info,		
			c_MeasFeedbackInfoCfg2),		
			FALSE,		
			tcv_HS_Cfg.hs_SCCH_Tx Po))		
2		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_HSPDSCH)		
3		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_InfoActN ow (p_CellId, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (
			c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses),		
			c_SS_AddOrReconfMAC_d Flow (
			c_SS_MAC_hs_AddReconf Queue		
			(c_MAC_hs_AddReconfQue ue336)),		
			tcv_HS_Cfg.ackNackRepeti tionFactor))		
4		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_HSPDSCH)		
5		+ ts_SS_HS_TFRC_ExplicitCfg (p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_HSPDSCH, c_UE_Info (OMIT, OMIT), c_TrChInfoHSSCCH (c_HS_DSCHMacdFlows(c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddRecon fQueue (c_MAC_hs_AddReconfQue ue336)), tcv_HS_Cfg.ackNackRepeti tionFactor)), c_TrLogMappingDL_MAC_ HS)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB25_AM_PS_Cfg2 (p_Payloadsize: INTEGER) Group : HSDPA_SS_Steps/ Objective : To setup radio bearers : RB25. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB25_AM_InfoCfg2 (tsc_CellDedicated, tsc_RB25, { uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1 }, 320)		
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB25)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfDCH_HS_ToDCH (p_CellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : Synchronised reconfiguration of the SS to configure a 64kUL / 64kDL packet call on DCH : – Initial state: The cell config is cell_DCH_HS_DSCH. – Final state: The cell config is cell_DCH_64kPS_RAB_SRB. The HSDPA RB25 has been mapped on top of 64k DCH / 64k DCH. Please note that the HSDPA L1 configuration is kept configured on SS side on purpose. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH]			
3		+ts_CMACEl (p_CellId, tsc_HSPDSCH)			
4		CPHY ! CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_r5 (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_Info_r5 (tsc_DL_DPCH1_ChC_64k_PS, c_DL_CommonInformation RB_SetUp_r5 (tsc_DL_DPCH1_SFP_64k_PS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode), tcv_ActTime, TRUE)		
5		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
6		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_NoSHO, cb_DCH_336_148_DL_Info (tcv_ActTime))		
7		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_DL_DPCH1)		
8		CMAC ! CMAC_Config_REQ	ca_CMACEl_ReconfigInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoDL_336_148, cd_TrLogMappingDL_4DCH_1DTCH_HS, tcv_ActTime)		
9		CMAC ? CMAC_Config_CNF	ca_CMACEl_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		
10		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_HSENH (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_UL_DPCH1)		
12		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, cb_DCH_336_148_UL_Info (tcv_ActTime))		
13		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		
14		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoUL_336_148, cd_TrLogMappingUL_4DCH_1DTCH_HS, tcv_ActTime)		
15		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
16		+ts_SetCellCfg (p_CellId, cell_DCH_64kPS_RAB_SRB)			
17	ERR1	[TRUE]		I	Program ming error
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfDL_DPCH_HS (p_CellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : To reconfigure SS DL DPCH when the UE has an active HS-DSCH Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH]			
3		CPHY ! CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_ r5 (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_PS_Offset_ HSENH (c_DL_CommonInformation RB_StandAloneSRB_r5 (tsc_DL_DPCH1_SFP_SRB _3_4k), tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode, tsc_Sfc256_C0), tcv_ActTime, FALSE)		
4		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
5	ERR1	[TRUE]		I	Program ming error
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfUL_DPCH_NewRate (<p> p_CellId : INTEGER ; p_Sf : SpreadingFactor ; p_PuncLimit : PuncturingLimit ; p_UL_TFCS : TFCS </p>)					
Group : HSDPA_SS_Steps/					
Objective : To update the UL DPCH/DCH configuration when the data rate is modified.					
Default : SS_Def					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_ HSENH (p_CellId, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_ HSENH (p_Sf, p_PuncLimit, tcv_TmpCellInfo.uL_Scrambl ingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
3		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (<p>p_CellId, tsc_UL_DPCH1)</p>		
4		CPHY ! CPHY_TrCH_Config_REQ	ca_2_DCH_UL_Info (<p>p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, c_DCH_148_TFS_UL, c_DCH_336_TFS_34_UL_1 0_TC, p_UL_TFCS, activationCFN : tcv_ActTime)</p>		
5		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (<p>tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfo_UL_2_DCH (c_DCH_148_TFS_UL, c_DCH_336_TFS_34_UL_1 0_TC, p_UL_TFCS), cd_TrLogMappingUL_4DC CH_1DTCH_HS, tcv_ActTime)</p>		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (<p>tsc_CellDedicated, tsc_UL_DPCH1)</p>		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_ChCode (p_CellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : To configure SS toHS-DPA related RL, Transport and MAC DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_RL_Setup_REQ	ca_DL_HSPDSCH_Info (p_CellId, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSC H_PS_RAB (tcv_HS_Cfg.phyLayCatego ry, tcv_HS_Cfg.hRNTI, c_DL_HSPDSCH_Informati on (c_HS_SCCH_Info_CH_Co de1, c_Measurement_Feedback_I nfo(tcv_HS_Cfg)), FALSE, tcv_HS_Cfg.hs_SCCH_Tx Po))		
2		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_HSPDSCH)		
3		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_InfoActN ow (p_CellId, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddReconf Queue (c_MAC_hs_AddReconfQue ue336)), tcv_HS_Cfg.ackNackRepeti tionFactor))		
4		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_HSPDSCH)		
5		+ ts_SS_HS_TFRC_ExplicitCfg(p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_HSPDSCH, c_UE_Info (OMIT, OMIT), c_TrChInfoHSSCCH (c_HS_DSCHMacdFlows(c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddRecon fQueue (c_MAC_hs_AddReconfQue ue336)), tcv_HS_Cfg.ackNackRepeti tionFactor)), c_TrLogMappingDL_MAC_ HS)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfDCH_HS_ToDCH_HS (p_OldCellId, p_NewCellId : INTEGER ; p_DI_Dpch_Info : DL_DPCHInfo_r5) Group : HSDPA_SS_Steps/ Objective : ts_HO_SS_ReconfDCH_HS_ToDCH_HS ===== <p>To Switch cell from DCH with HS-DSCH signalling to a target cell where DCH with HS-DSCH Signalling is configured.</p> <p>1> Release HS-PDSCH from source cell (i.e CMAC Rel, Transport Channel Release and Release HS-PDSCH)</p> <p>2> Release DPCH Configuration from source cell (i.e Release Transport Channel and Release DPCH for both UL and DL). Note : MAC is not released.</p> <p>3> Configure DL-DPCH in the target Cell (i.e Setup DPCH, Transport Channel and Reconfigure MAC if required (depending on the parameters changed).</p> <p>4> Configure HS-PDSCH & HS-DSCH. (i.e setup HS-PDSCH, Transport Channel and MAC logical Channels. Also configure MAChs_TFRC)</p> <p>5> Configure UL-DPCH in the target Cell (i.e Setup DPCH, Transport Channel and Reconfigure MAC if required (depending on the parameters changed).</p> Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_OldCellId)			
2		[tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH]			
3		+ts_SS_RelHSPDSCH (p_OldCellId)			
4		+ts_SS_RelDPCH_NotMAC (p_OldCellId)			
5		+ts_SetCellCfg (p_OldCellId, cell_NoDPCH)			
6		+ItCheckInterCell			
7		+ It_ConfigNewcell_DPCH_HSPDSCH			
8		+ ts_SetCellCfg(p_NewCellId, cell_DCH_HS_DSCH)			
9	ERR2	[TRUE]			
10		It_ConfigNewcell_DPCH_HSPDSCH CPHY ! CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (p_NewCellId, tsc_DL_DPCH1, p_DI_Dpch_Info)		
11		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_NewCellId, tsc_DL_DPCH1)		
12		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_DL_ActNow (p_NewCellId, tsc_DL_DPCH1)		
13		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_NewCellId, tsc_DL_DPCH1)		
14		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoDL_34_StandAlone, c_TrLogMappingDL_4DCC H, tcv_ActTime)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		If Inter cell HO
16		+ ts_SS_HS_DSCH_PDSCH_Cfg_ChCo de (p_NewCellId)			
17		+ts_SS_UL_DPCH_SetupHS_Ack (p_NewCellId)			
18		ItCheckInterCell [p_OldCellId<> p_NewCellId]			
19		+ ts_SetCellCfg (p_OldCellId, cell_FACH_NoDedicated)			
20		+ ts_SetTmpCellInfo (p_NewCellId)			
21		[TRUE]				If cell is same
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify_MacQueue (p_CellId : INTEGER; p_MAC_Size : INTEGER) Group : HSDPA_SS_Steps/ Objective : To configure SS to packet CELL_DCH / HS-DSCH. DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ It_DL_DPCH_Modify			to downgrade Signalling Channels in DL to 3.4
3		+ ts_SS_HS_DSCH_PDSCH_Cfg_MacQueue (p_CellId,p_MAC_Size)			to configure HSDPA channels
4		+It_UL_DPCH_Modify			to modify UL DPCH
5		It_DL_DPCH_Modify CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_r5 (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_SRB_HS(tsc_DL_DPCH1_2ndScrC , tsc_Sfc256_C0), tcv_ActTime, TRUE)		
6		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
7		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_DL (p_CellId, tsc_DL_DPCH1, tcv_ActTime)		
8		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT),		
10		CMAC ? CMAC_Config_CNF	c_TrChInfoDL_34_StandAlone, c_TrLogMappingDL_4DCC H, tcv_ActTime) ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
		It_UL_DPCH_Modify			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		[tcv_HS_Cfg.ul_DataRate = r384]			UL 384 kbps
12		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_HSENH (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_HSENH (sf4, pl0_72, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
13		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_UL_DPCH1)		
14		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_Info384k (tcv_ActTime))		
15		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
16		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148_384k, cd_TrLogMappingUL_4DCH_1DTCH_HS, tcv_ActTime)		
17		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
18		[tcv_HS_Cfg.ul_DataRate = r64]			
19		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_HSENH (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
20		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_UL_DPCH1)		
21		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, cb_DCH_336_148_UL_Info (tcv_ActTime))		UL 64 kbps
22		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_UL_DPCH1, c_UE_Info(OMIT, OMIT), cb_TrChInfoUL_336_148, cd_TrLogMappingUL_4DC CH_1DTCH_HS,tcv_ActTime)		
24		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_MacQueue (p_CellId : INTEGER; p_MAC_Size : INTEGER) Group : HSDPA_SS_Steps/ Objective : To configure SS toHS-DPA related RL, Transport and MAC DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_RL_Setup_REQ	ca_DL_HSPDSCH_Info (p_CellId, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSC H_PS_RAB (tcv_HS_Cfg.phyLayCatego ry, tcv_HS_Cfg.hRNTI, c_DL_HSPDSCH_Informati on (c_HS_SCCH_Info, c_Measurement_Feedback_I nfo(tcv_HS_Cfg)), FALSE, tcv_HS_Cfg.hs_SCCH_Tx Po))		
2		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_HSPDSCH)		
3		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_InfoActN ow (p_CellId, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddReconf Queue (c_MAC_hs_AddReconfQue ue (p_MAC_Size))), tcv_HS_Cfg.ackNackRepeti tionFactor))		
4		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_HSPDSCH)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
5		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_HSPDSCH, c_UE_Info (OMIT, OMIT), c_TrChInfoHSSCCH (c_HS_DSCHMacdFlows(c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddRecon fQueue (c_MAC_hs_AddReconfQue ue(p_MAC_Size))), tcv_HS_Cfg.ackNackRepeti tionFactor)), c_TrLogMappingDL_MAC_ HS)		
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
7		+ ts_SS_HS_TFRC_ExplicitCfg(p_CellId)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_UL_DPCH_SetupHS_Ack (p_CellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : To configure SS for 384 KBPS PS UL RAB Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_HS_Cfg.ul_DataRate = r384]			UL 384 kbps
2		CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_CellId, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_HSENH (tsc_Sf4, pl0_72, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
3		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)		
4		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_Info384k_ActNow)		
5		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148_384k, cd_TrLogMappingUL_4DCH_1DTCH_HS)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
8		[tcv_HS_Cfg.ul_DataRate = r64]			UL 64 kbps
9		CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_CellId, tsc_UL_DPCH1, cd_UL_DPCH_InfoACK_6_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
10		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)		
11		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_InfoActNow)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
13		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoUL_336_148, cd_TrLogMappingUL_4DC CH_1DTCH_HS)		
14		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_ReEst_SRBs Group : HSDPA_SS_Steps/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
2		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
3		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
4		CRLC ! CRLC_Config_REQ	ca_RBCfg_AM_Info (tsc_CellDedicated, tsc_RB2, {uLogicalChannelIdentity tsc_UL_DCCH2, dLogicalChannelIdentity tsc_DL_DCCH2}, 128)		
5		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB2)		
6		+ts_SS_RLC_Stop_RB (tsc_RB2)			
7		CRLC ! CRLC_Config_REQ	ca_RBCfg_AM_Info (tsc_CellDedicated, tsc_RB3, {uLogicalChannelIdentity tsc_UL_DCCH3, dLogicalChannelIdentity tsc_DL_DCCH3}, 128)		
8		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB3)		
9		+ts_SS_RLC_Stop_RB (tsc_RB3)			
10		CRLC ! CRLC_Config_REQ	ca_RBCfg_AM_Info (tsc_CellDedicated, tsc_RB4, {uLogicalChannelIdentity tsc_UL_DCCH4, dLogicalChannelIdentity tsc_DL_DCCH4}, 128)		
11		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
12		+ts_SS_RLC_Stop_RB (tsc_RB4)			
13		CRLC ! CRLC_Config_REQ	ca_RBReCfg_AM_Info (tsc_CellDedicated, tsc_RB25, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, 320)		
14		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB25)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		[(
		tcv_CellIndInfo.ps_cipheri			
		ngStarted = TRUE) AND(
		tcv_CellIndInfo.recentSec			
		ureDomain = ps_domain)			
]			
16		+			
		lt_CRLC_SecurityConfig			
		(tcv_CellIndInfo.start_P			
		S, tcv_PS_AuthCK)			
17		(
		tcv_RLC_SeqNumDL_			
		RB2 := 0,			
		tcv_RLC_SeqNumDL_			
		RB3 := 0,			
		tcv_RLC_SeqNumDL_			
		RB4 := 0)			
18		+ lt_RLC_Activate (
		tsc_RB25,			
		tcv_RLC_SeqNumDL_			
		_RB25)			
19		+ lt_RLC_Activate (
		tsc_RB2,			
		tcv_RLC_SeqNum			
		DL_RB2)			
20		+			
		lt_RLC_Activate (
		tsc_RB3,			
		tcv_RLC_SeqNu			
		mDL_RB3)			
21		+			
		lt_RLC_Activate			
		(tsc_RB4,			
		tcv_RLC_SeqN			
		umDL_RB4)			
22		CRLC !	ca_CRLC_UL_CipherActRe		
		CRLC_Cipheri	q (tsc_CellDedicated ,		
		ng_Activate_R	tcv_CellIndInfo.		
		EQ	recentSecureDomain,		
			cs_RB_ActTimeInfoListSRB		
			s(0,0,0,0) ,notInc)		
23		CRLC ?	ca_CRLC_CipherActCnf(ts		
		CRLC_Ciph	c_CellDedicated)		
		ering_Activa			
		te_CNF			
24		+ts_SS_R			
		LC_Contin			
		ue_RB			
		(tsc_RB2)			
25		+ts_SS_			
		RLC_Co			
		ntinue_R			
		B			
		(tsc_RB3			
)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		+ts_SS _RLC_ Continue _RB (tsc_RB4)			
27		[TRUE]			
28		+ts_SS_RLC_Continue_ RB (tsc_RB2)			
29		+ts_SS_RLC_Continue_ _RB (tsc_RB3)			
30		+ts_SS_RLC_Continue_ _RB (tsc_RB4)			
31		It_CRLC_SecurityConfig (p_Hfn_LT: HyperFrameNumber ; p_KC_LT: KeyCiphering) CRLC ! CRLC_SecurityMode_Config_REQ	ca_CRLC_SecurityModeCfg Req (tsc_CellDedicated , tcv_CellIndInfo.recentSecureDomain, p_Hfn_LT , p_KC_LT, OMIT, OMIT)		
32		CRLC ? CRLC_SecurityMode_Config_CNF	ca_CRLC_SecurityModeCfg Cnf (tsc_CellDedicated)		
33		It_RLC_Activate (p_rblid : INTEGER ; p_SeqNum : RLC_SequenceNumber) CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_DL_CipherActReq (tsc_CellDedicated , tcv_CellIndInfo. recentSecureDomain , p_rblid , tcv_CellIndInfo.dL_CipherMode, p_SeqNum , notInc)		
34		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB25_AM_PS_Cfg_656 (p_CellId: INTEGER; p_Payloadsize: INTEGER) Group : HSDPA_SS_Steps/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB25_AM_Info_656 (p_CellId, tsc_RB25, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, p_Payloadsize)		configure radio bearers : RB25 DTCH on HS-DS CH and DTCH on DPCH associat ed HS-DS CH
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (p_CellId, tsc_RB25)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfDCH_HS_ToFACH_Cfg1 (p_OldCellId , p_NewCellId : INTEGER) Group : HSDPA_SS_Steps/ Objective : To switch cell from DCH/HS-DSCH to FACH state. 1> Remove UL-DPCH and DL-DPCH in the old cell: CMAC-Rel (cell-1), CPHY-TrCh-Rel(old cell), CPHY-RL-Rel(old cell) Remove HS-DSCH related RL, Tran and MAC-H 2> Reconfigure CMAC (new cell): CCCH, PCCH, DCCH, DTCH The PS RB will be RB25 IF OldCellId and NewCellId are passed same, then it becomes a Reconfig step for one cell Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_NewCellId)			
2		[px_RAT = fdd]			
3		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
4		+ It_RelHS_PDSCH			
5		+ It_RelUL_DPCH			
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_NewCellId, tsc_PRACH1, c_UE_Info(OMIT, tcv_TmpCellInfo.cRNTI), cb_TrChInfoRACH1, cd_TrLogMappingRACH_DTCH_RB25)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_NewCellId, tsc_PRACH1)		
8		+ It_RelDL_DPCH			
9		+ ItCheckInterCell			
10		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_NewCellId, tsc_S_CCPCH1, c_UE_Info(OMIT, tcv_TmpCellInfo.cRNTI), c_TrChInfoPCH_FACH_PS , cd_TrLogMappingPCH_FACH_PS_RB25)		
11		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_NewCellId, tsc_S_CCPCH1)		
12		+ ts_SS_RB25_AM_PS_Cfg (tsc_CellDedicated, 320)			
13		+It_SS_RB_BCCH_FACH_Cfg_Selectively			
14		+ ts_SetCellCfg(p_NewCellId, cell_FACH_HS)			
15	ERR1	[px_RAT = tdd]		I	
16	ERR2	[TRUE]		I	
		It_SS_RB_BCCH_FACH_Cfg_Selectively			
17		[p_OldCellId <> p_NewCellId]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated]			
19		+ts_SS_RB_BCCH_FACH_Cfg(p_NewCellId)			
20		[TRUE]			
21		[TRUE]			
22		+ts_SS_RB_BCCH_FACH_Cfg(p_NewCellId)			
		It_RelUL_DPCH			
23		+ ts_CMAC_Rel (tsc_CellDedicated , tsc_UL_DPCH1)			
24		+ ts_CPHY_TrChRelDCH_NoSHO (p_OldCellId, tsc_UL_DPCH1)			
25		+ ts_SS_StopRL (p_OldCellId, tsc_UL_DPCH1)			
		It_RelDL_DPCH			
26		+ ts_CMAC_Rel (tsc_CellDedicated , tsc_DL_DPCH1)			
27		+ ts_CPHY_TrChRelDCH_NoSHO (p_OldCellId, tsc_DL_DPCH1)			
28		+ ts_SS_StopRL (p_OldCellId, tsc_DL_DPCH1)			
		It_RelHS_PDSCH			
29		+ts_CMAC_Rel (p_OldCellId, tsc_HSPDSCH)			
30		+ ts_CPHY_TrChRelNonDch (p_OldCellId, tsc_HSPDSCH)			
31		+ts_SS_StopRL (p_OldCellId, tsc_HSPDSCH)			
		ItCheckInterCell			
32		[p_OldCellId<> p_NewCellId]			If Inter cell HO
33		+ ts_SetCellCfg (p_OldCellId, cell_FACH_NoDedicated)			
34		[TRUE]			If cell is same
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnEstPS_MT_P5_P6_Cause_HSENH (p_CellId : INTEGER;p_EstCause : EstablishmentCause; p_PagCause: PagingCause) Group : HSDPA_Steps/ Objective : RRC connection establishment procedure for MO PS calls on DCH Default : RRC_Def1 Comments : See 34.108 clause 7.4.2.2.2 Test case variables used: tcv_RRC_EstCauMO : the establishment cause for MT call that is supported by UE. Assigned in ts_RRC_InitVariables.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_RRC_PagType1_TMSI_PTMSI_Cau (p_CellId, tcv_AssignedPTMSI, p_PagCause)			
2		+ts_RRC_ConnEst_r5 (p_CellId, est_MT, p_EstCause)			Steps 1–3
3		+ ts_GMM_ServReq (p_CellId)			Step 4
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RBRelease_HS(p_CellId:INTEGER)					
Group : HSDPA_Steps/					
Objective :					
Default :					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TBP1	+ ts_SetTmpCellInfo (p_CellId)	cas_RB_ReleaseWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cs_RB_Rel_HS_DCH_PS_NoDL_DCH1(tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tcv_TmpCellInfo.frequencyInfo, tcv_TmpCellInfo.priScrmCode, tcv_TmpCellInfo.uL_ScramblingCode , tcv_TmpCellInfo.dl_DPCH_2ndScrCode)) car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		Step 1 Radio Bearer Release
2		+ts_CalculateActTime_r5 (p_CellId)			
3		AM ! RLC_AM_DATA_REQ			
4		AM ? RLC_AM_DATA_CNF			
5		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			Step 2 Radio Bearer Release Complete
6		+ts_SS_ReleaseHSDSCH_ToDCH (p_CellId, tcv_ActTime)			
7		+ts_RRC_ReceiveRB_RelCmpl (p_CellId, tcv_TmpCellInfo.cellConfig)			
8		+ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_7_MT_LoopBack_Cause (p_CellId : INTEGER;p_EstCause : EstablishmentCause; p_PagCause: PagingCause) Group : HSDPA_Steps/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour
2		+ts_SS_CreateCellDCH_r5 (p_CellId)			Configure lower tester
3		+ts_SendDefSysInfo (p_CellId)			Sends the default system information in CellA
4		+ts_IdleUpdated_r5 (p_CellId)			Idle Update and bring UE to CELL_DCH state and release the connection again
5		(tcv_TestBody := TRUE)			
6		+ ts_RRC_ConnEstPS_MT_P5_P6_Cause_HSENH (p_CellId, p_EstCause, p_PagCause)			
7		+ ts_RRC_Security_r5 (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			
8		+ts_TC_ActivateRB_TestMode (p_CellId)			
9		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GERANCreateCell_r5(p_CellId : CellId; b_PBCCH : GPRSCellConfiguration; b_SI2quater : SI2quaterConfiguration; b_PSI5 : PSI5Configuration)					
Group : Other/					
Objective :					
Default :					
Comments : Expects variables to already be initialised.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+lt_CreateCell(c_PacketChDescr(tcv_ARFCN))			
2		[b_PSI5 = psi5]			
3		(tcv_PSI_LowRate := INT_TO_BIT((1 + BIT_TO_INT(tcv_PSI_LowRate)), 6))			Increment LR Count if PSI5 sent
4		+lt_SendSysInfo			
5		[TRUE]			
6		+lt_SendSysInfo			
		lt_SendSysInfo			
7		+ts_SendGSMSSysInfo_r5(p_CellId, tsc_PhyCh0, gprs, b_PBCCH, b_SI2quater)			
8		[b_PBCCH = pbcch]			
9		+ts_SendDefPacketSysInfo(p_CellId, tsc_PhyCh1, c_PBCCH_Info_Def(tcv_PSI_LowRate), tcv_PCCCHParams, tcv_G_CellConfigInfo, tcv_RAC, b_PSI5)			This creates the RLCMAC Entity first
10		+ts_Create_LLE_Entity(p_CellId, tsc_LLEEntity)			
11		[b_PBCCH = bcch]			
12		+ts_CreateRLC_MAC_Entity(p_CellId)			Need to ensure RLCMAC Entity created before doing GPRS Attach
13		+ts_Create_LLE_Entity(p_CellId, tsc_LLEEntity)			
		lt_CreateCell(p_PacketChDescr : PacketChDescr)			
14		+ts_CreateCell_GSM_Comb (p_CellId)			GSM Control Channel
15		[b_PBCCH = pbcch]			
16		+ts_SS_CreatePhyChOfCombType11(p_CellId, tsc_PhyCh1, tcv_PBCCHFreqInfo, p_PacketChDescr.tN, p_PacketChDescr.tSC, tcv_PCCCHParams, c_PBCCH_Info_Def(tcv_PSI_LowRate))			
17		[b_PBCCH = bcch]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		+ts_SS_CreatePhyChOfCombType13(p_CellId , tsc_PhyCh1, c_FreqInfoBCCH(tcv_ARFCN), p_PacketChDescr.tN, p_PacketChDescr.tSC)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendGSMSysInfo_r5(p_CellId: INTEGER; p_PhyCh : PhysicalChId; b_GPRS : GSM_GPRSConfiguration; b_PBCCH :GPRSCellConfiguration; b_SI2quater : SI2quaterConfiguration) Group : Other/ Objective : Default : IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_G_SetTmpCellConfigInfo (p_CellId)			
2		+ts_SendSysInfoType1 (p_CellId, p_PhyCh)			
3		+ts_SendSysInfoType2 (p_CellId, p_PhyCh)			
4		+lt_SendOthers			SI2 Quarter giving 3G neighbor cell information
5		[(px_GSM_BandUnderTest = tsc_GSM_P_900Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_E_900Band_Test)]			
6		+ts_SendSysInfoType2bis(p_CellId, p_PhyCh, 0)			Send a SI2bis if PGSM or EGSM only
7		[TRUE] lt_SendOthers			
8		[b_GPRS = gprs]			
9		+ts_SendSysInfoType4 (p_CellId, p_PhyCh, c_SI4_RO_GPRS)			
10		+lt_SendSI13			
11		[b_SI2quater = si2quater]			
12		+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3RO_GPRS_SI2quater)			
13		+ts_SendSysInfoType2quater(p_CellId, p_PhyCh, 0, '0'B, tcv_SI2quaterRO)			SI2 Quarter giving 3G neighbor cell information
14		[b_SI2quater = nosi2quater]			
15		+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_GPRS)			
16		[b_GPRS = gsmonly]			
17		+ts_SendSysInfoType4 (p_CellId, p_PhyCh, c_SI4_RO_Spare)			
18		[b_SI2quater = si2quater]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_SI2quater('0'B))			no GPRS, only SI2quater
20		+ts_SendSysInfoType2quater(p_CellId, p_PhyCh, 0, '0'B, tcv_SI2quaterRO)			SI2quater giving 3G neighbor cell information
21		[b_SI2quater = si2ter]			
22		+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_SI2ter)			SI2ter giving neighbor cell info (SI2ter sent outside of this test step)
23		[b_SI2quater = si2terand2quater]			
24		+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_SI2quater('1'B))			SI2ter and SI2quater giving neighbor cell info (SI2ter sent outside of this test step)
25		+ts_SendSysInfoType2quater(p_CellId, p_PhyCh, 0, '0'B, tcv_SI2quaterRO)			
26		[b_SI2quater = nosi2quater]			
27		+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_Spare)			nothing
28		It_SendSI13			
29		[b_PBCCH = pbcch] [(px_GSM_BandUnderTest = tsc_GSM_DCS1800Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_PCS1900Band_Test)]			DCS and PCS have sized GPRS Allocation
30		+ts_SendSysInfoType13 (p_CellId, p_PhyCh, '0'B, c_SI13_RO_PBCCH_DCS_r5)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		[TRUE]			All the other bands have another
32		+ts_SendSysInfoType13 (p_CellId, p_PhyCh, '0'B, c_SI13_RO_PBCCH_GSM_r5)			
33		[b_PBCCH = bcch]			
34		+ts_SendSysInfoType13 (p_CellId, p_PhyCh, '0'B, c_SI13_RO_GPRS_r5(tcv_RAC, tcv_NMO))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GSM_InitVariablesAllBands_r5 Group : Other/ Objective : Default : IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(px_GSM_BandUnderTest = tsc_GSM_700Band_Test)]			This initialises the other bands
2		(tcv_G_CellInfoA := c_G_CellConfigInfoGPRS700_CellA(tsc_CCCH Conf_Combined))			
3		[(px_GSM_BandUnderTest = tsc_GSM_850Band_Test)]			
4		(tcv_G_CellInfoA := c_G_CellConfigInfoGPRS850_CellA(tsc_CCCH Conf_Combined))			
5		[TRUE]			
6		+ts_GSM_InitVariablesDef_r5			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GSM_InitVariablesDef_r5 Group : Other/ Objective : Default : IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SI2quaterRO := c_SI2quaterRO_r5('1'B, c_SI2quater_3G_1NCell(INT_TO_BIT(tcv_CellInfoA.frequencyInfo.modeSpecificInfo.fdd.uarfcn_DL, 14), INT_TO_BIT(tcv_CellInfoA.priScrmCode, 10)), '1'B, c_SI2quaterMeasParams3G_ISHO, '0'B, OMIT))			Set up default value of SI2quater
2		+ts_MM_AuthenticationInit			To initialise tcv_AuthKcGSM to correct value
3		[(px_GSM_BandUnderTest = tsc_GSM_P_900Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_E_900Band_Test)]			
4		(tcv_G_CellInfoA := c_G_CellConfigInfoGSM900)			
5		[(px_GSM_BandUnderTest = tsc_GSM_DCS1800Band_Test)]			
6		(tcv_G_CellInfoA := c_G_CellConfigInfoGSM1800)			
7		[(px_GSM_BandUnderTest = tsc_GSM_450Band_Test)]			
8		(tcv_G_CellInfoA := c_G_CellConfigInfoGSM450)			
9		[(px_GSM_BandUnderTest = tsc_GSM_480Band_Test)]			
10		(tcv_G_CellInfoA := c_G_CellConfigInfoGSM480)			
11		[(px_GSM_BandUnderTest = tsc_GSM_PCS1900Band_Test)]			
12		(tcv_G_CellInfoA := c_G_CellConfigInfoGSM1900)			
13		[TRUE]		(I)	Inconclusive
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GSM_SetCellPowerLevel2Ch(p_CellId : CellId ; p_PhyChId1,p_PhyChId2 : PhysicalChId ; p_txPow : TX_Power)					
Group : Other/					
Objective :					
Default : IntersystemDef					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_GSM_SetChPowerLevel(p_CellId, p_PhyChId1, p_txPow)			GPRS channel only configured if UE supports GPRS. Therefore don't try to adjust power of channel that's not there
2		[(p_PhyChId2 = tsc_PhyCh1) AND NOT pc_GPRS]			
3		[TRUE]			
4		+ts_GSM_SetChPowerLevel(p_CellId, p_PhyChId2, p_txPow)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GSM_InitVariablesSpecific40 Group : Other/ Objective : Default : IntersystemDef Comments : Defaults specific to section 40 tests, from 51.010 clause 40.2.1 Assumed tcv_CellInfoA already using c_G_CellConfigInfoGSM900 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_G_CellInfoA.nECI := '1'B, tcv_G_CellInfoA.bS_AG_BLKs_RES := '010'B, tcv_G_CellInfoA.bS_PA_MFRMS := '100'B)			None freq dependa nt paramet ers
2		[(px_GSM_BandUnderTest = tsc_GSM_P_900Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_E_900Band_Test)]			
3		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS900, tcv_G_CellInfoA.cellAllocation := c_CellAllocGPRS900)			
4		[(px_GSM_BandUnderTest = tsc_GSM_DCS1800Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_PCS1900Band_Test)]			
5		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS1800, tcv_G_CellInfoA.cellAllocation := c_CellAllocGPRS1800_1900)			
6		[(px_GSM_BandUnderTest = tsc_GSM_PCS1900Band_Test)]			
7		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS1900)			
8		[(px_GSM_BandUnderTest = tsc_GSM_700Band_Test)]			
9		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS700, tcv_G_CellInfoA.cellAllocation := c_CellAllocGPRS700)			
10		[(px_GSM_BandUnderTest =tsc_GSM_850Band_Test)]			
11		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS850, tcv_G_CellInfoA.cellAllocation := c_CellAllocGPRS850)			
12		[(px_GSM_BandUnderTest =tsc_GSM_450Band_Test)]			
13		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS450)			
14		[(px_GSM_BandUnderTest =tsc_GSM_480Band_Test)]			
15		(tcv_G_CellInfoA.neighBCCHFreqList := c_NeighBCCH_FreqListGPRS480)			
16		[TRUE]		(I)	Inconclu sive
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GPRS_InitVariablesDef Group : Other/ Objective : Default : IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_PSI2_Instance3 := tcv_PSI2_Instance2, tcv_PSI2_Instance3.rFL_Contents := tsc_PSI2_INST3_RFL_Contents_GSM, tcv_PBCCHFreqInfo := c_PBCCHFreqInfo(c_PBCCHoppingFreqList_G SM900))			Instance 3 same as instance 2 except RFL. If changin g PBCCH params, check PSI13, SI13 and Channel Config
2		[(px_GSM_BandUnderTest = tsc_GSM_P_900Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_E_900Band_Test)]			
3		(tcv_PSI3_Instance1.startFreq := tsc_StartFreq_5, tcv_PSI3_Instance1.freqDiffLen := tsc_FreqDiffLen_7bits, tcv_PSI3_Instance1.freqDiff := tsc_FreqDiff_75, tcv_PSI3_Instance2.startFreq := tsc_StartFreq_90, tcv_PSI3_Instance2.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance2.freqDiff := tsc_FreqDiff_30, tcv_PSI3_Instance3.startFreq := tsc_StartFreq_100, tcv_PSI3_Instance3.freqDiffLen := tsc_FreqDiffLen_4bits, tcv_PSI3_Instance3.freqDiff := tsc_FreqDiff_10, tcv_PSI3_Instance4.startFreq := tsc_StartFreq_122, tcv_PSI3_Instance4.freqDiffLen := tsc_FreqDiffLen_2bits, tcv_PSI3_Instance4.freqDiff := tsc_FreqDiff_2)			
4		[(px_GSM_BandUnderTest = tsc_GSM_DCS1800Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_PCS1900Band_Test)]			
5		(tcv_PSI2_Instance2.rFL_Contents := tsc_PSI2_INST2_RFL_Contents_DCSPCS, tcv_PSI2_Instance2.mALen := tsc_MALen_7, tcv_PSI2_Instance2.mABitmap := tsc_PSI2_MABitmap2_DCSPCS)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		(tcv_PSI2_Instance3.rFL_Contents_Len := tsc_RFLContentsLen_6, tcv_PSI2_Instance3.rFL_Contents := tsc_PSI2_INST3_RFL_Contents_DCSPCS, tcv_PSI2_Instance3.mALen := tsc_MALen_3, tcv_PSI2_Instance2.mABitmap := tsc_PSI2_MABitmap3_DCSPCS)			
7		(tcv_PSI3_Instance1.startFreq := tsc_StartFreq_515, tcv_PSI3_Instance1.freqDiffLen := tsc_FreqDiffLen_7bits, tcv_PSI3_Instance1.freqDiff := tsc_FreqDiff_85, tcv_PSI3_Instance2.startFreq := tsc_StartFreq_700, tcv_PSI3_Instance2.freqDiffLen := tsc_FreqDiffLen_8bits, tcv_PSI3_Instance2.freqDiff := tsc_FreqDiff_170, tcv_PSI3_Instance3.startFreq := tsc_StartFreq_780, tcv_PSI3_Instance3.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance3.freqDiff := tsc_FreqDiff_30, tcv_PSI3_Instance4.startFreq := tsc_StartFreq_875, tcv_PSI3_Instance4.freqDiffLen := tsc_FreqDiffLen_4bits, tcv_PSI3_Instance4.freqDiff := tsc_FreqDiff_10)			
8		(tcv_PBCCHFreqInfo.hoppingFreqList :=c_PBCCHHoppingFreqList_DCSPCS, tcv_ARFCN := INT_TO_BIT(650, 10))			
9		(tcv_Gamma := '00011'B)			
10		[(px_GSM_BandUnderTest = tsc_GSM_PCS1900Band_Test)]			
11		(tcv_PSI3_Instance2.startFreq := tsc_StartFreq_655, tcv_PSI3_Instance2.freqDiff := tsc_FreqDiff_155, tcv_PSI3_Instance3.startFreq := tsc_StartFreq_700, tcv_PSI3_Instance3.freqDiffLen := tsc_FreqDiffLen_7bits, tcv_PSI3_Instance3.freqDiff := tsc_FreqDiff_80, tcv_PSI3_Instance4.startFreq := tsc_StartFreq_875, tcv_PSI3_Instance4.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance4.freqDiff := tsc_FreqDiff_30)			Most paramet ers are same as DCS, only these are different
12		[(px_GSM_BandUnderTest = tsc_GSM_700Band_Test)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		(tcv_PSI2_Instance2.rFL_Contents := tsc_PSI2_INST2_RFL_Contents_GSM700, tcv_PSI2_Instance3.rFL_Contents := tsc_PSI2_INST3_RFL_Contents_GSM700)			Everything is same as GSM except RFLs
14		(tcv_PSI3_Instance1.startFreq := tsc_StartFreq_437, tcv_PSI3_Instance1.freqDiffLen := tsc_FreqDiffLen_4bits, tcv_PSI3_Instance1.freqDiff := tsc_FreqDiff_10, tcv_PSI3_Instance2.startFreq := tsc_StartFreq_467, tcv_PSI3_Instance2.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance2.freqDiff := tsc_FreqDiff_30, tcv_PSI3_Instance3.startFreq := tsc_StartFreq_477, tcv_PSI3_Instance3.freqDiffLen := tsc_FreqDiffLen_4bits, tcv_PSI3_Instance3.freqDiff := tsc_FreqDiff_10, tcv_PSI3_Instance4.startFreq := tsc_StartFreq_502, tcv_PSI3_Instance4.freqDiffLen := tsc_FreqDiffLen_3bits, tcv_PSI3_Instance4.freqDiff := tsc_FreqDiff_5)			
15		(tcv_PBCCHFreqInfo.hoppingFreqList :=c_PBCCHHoppingFreqList_GSM700, tcv_ARFCN := INT_TO_BIT(467,10))			
16		[(px_GSM_BandUnderTest =tsc_GSM_850Band_Test)]			
17		(tcv_PSI2_Instance2.rFL_Contents := tsc_PSI2_INST2_RFL_Contents_GSM850, tcv_PSI2_Instance3.rFL_Contents := tsc_PSI2_INST3_RFL_Contents_GSM850)			Everything is same as GSM except RFLs
18		(tcv_PSI3_Instance1.startFreq := tsc_StartFreq_137, tcv_PSI3_Instance1.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance1.freqDiff := tsc_FreqDiff_20, tcv_PSI3_Instance2.startFreq := tsc_StartFreq_207, tcv_PSI3_Instance2.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance2.freqDiff := tsc_FreqDiff_30, tcv_PSI3_Instance3.startFreq := tsc_StartFreq_217, tcv_PSI3_Instance3.freqDiffLen := tsc_FreqDiffLen_4bits, tcv_PSI3_Instance3.freqDiff := tsc_FreqDiff_10, tcv_PSI3_Instance4.startFreq := tsc_StartFr			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		eq_177, tcv_PSI3_Instance4.freqDiffLen := tsc_FreqDiffLen_5bits, tcv_PSI3_Instance4.freqDiff := tsc_FreqDiff_20) (tcv_PBCCHFreqInfo.hoppingFreqList :=c_PBCCHHoppingFreqList_GSM850, tcv_ARFCN := INT_TO_BIT(157,10))			
20		[TRUE]		(I)	Inconclusive
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB25_AM_PS_Cfg_twrw (p_CellId: INTEGER; p_Payloadsize: INTEGER;p_UL_AM_RLC_Mode:UL_AM_RLC_Mode;p_DL_AM_RLC_Mode:DL_AM_RLC_Mode_r5) Group : SS_Configuration/ Objective : To setup radio bearers : RB23. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_twrw (p_CellId, tsc_RB25, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, p_Payloadsize,p_UL_AM_RLC_Mode,p_DL_AM_RLC_Mode)		configure radio bearers : RB25 DTCH on HS-DSCH and DTCH on DPCH associated HS-DSCH
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (p_CellId, tsc_RB25)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_TFC_Restriction_UL (p_cellId:INTEGER;p_TFC_UL : TFC_Subset) Group : SS_Configuration/ Objective : to request SS to send the data on the RABs in the same frame. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_Restriction_REQ	ca_CMAC_RestrictReq(p_cellId,tsc_UL_DPCH1,c_TFC_Restriction_UL(p_TFC_UL))		
2		CMAC ? CMAC_Restriction_CNF	ca_CMAC_RestrictCnf(p_cellId,tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SubtestInitVariables_HS(p_Subtest:INTEGER) Group : SubTest/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_HS_Cfg.ul_DataRate = r64]			
2		+ts_SubtestInitVariables_UL_64k_HS(p_Subtest)			
3		[tcv_HS_Cfg.ul_DataRate = r384]			
4		+ts_SubtestInitVariables_UL_384k_HS(p_Subtest)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SubtestInitVariables_UL_64k_HS(p_Subtest:INTEGER) Group : SubTest/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_Subtest = 1]			
2		[(tcv_HS_Cfg.phyLayCategory =1) OR (tcv_HS_Cfg.phyLayCategory =2)]			
3		(tcv_HS_Cfg.numberOfProcesses:=2, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
4		[(tcv_HS_Cfg.phyLayCategory =3) OR (tcv_HS_Cfg.phyLayCategory =4)]			
5		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
6		[(tcv_HS_Cfg.phyLayCategory =5) OR (tcv_HS_Cfg.phyLayCategory =6)]			
7		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
8		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
9		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1536, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
10		[(tcv_HS_Cfg.phyLayCategory =9) OR (tcv_HS_Cfg.phyLayCategory =10)]			
11		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw2047, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
12		[(tcv_HS_Cfg.phyLayCategory =11)]			
13		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
14		[(tcv_HS_Cfg.phyLayCategory =12)]			
15		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		[TRUE]		I	Categories 1 to 12 only allowed
17		[p_Subtest = 2]			
18		[(tcv_HS_Cfg.phyLayCategory =1) OR (tcv_HS_Cfg.phyLayCategory =2)]			
19		(tcv_HS_Cfg.numberOfProcesses:=2, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
20		[(tcv_HS_Cfg.phyLayCategory =3) OR (tcv_HS_Cfg.phyLayCategory =4)]			
21		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
22		[(tcv_HS_Cfg.phyLayCategory =5) OR (tcv_HS_Cfg.phyLayCategory =6)]			
23		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
24		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
25		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
26		[(tcv_HS_Cfg.phyLayCategory =9)]			
27		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
28		[(tcv_HS_Cfg.phyLayCategory =10)]			
29		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw1024)			
30		[(tcv_HS_Cfg.phyLayCategory =11)]			
31		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
32		[(tcv_HS_Cfg.phyLayCategory =12)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
34		[TRUE]		I	Categori es 1 to 12 only allowed
35		[p_Subtest = 3]			
36		[(tcv_HS_Cfg.phyLayCategory =1) OR(tcv_HS_Cfg.phyLayCategory =2) OR(tcv_HS_Cfg.phyLayCategory =3) OR(tcv_HS_Cfg.phyLayCategory =4) OR(tcv_HS_Cfg.phyLayCategory =5) OR(tcv_HS_Cfg.phyLayCategory =6)]			
37		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
38		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
39		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1536, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
40		[(tcv_HS_Cfg.phyLayCategory =9)]			
41		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw2047, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
42		[(tcv_HS_Cfg.phyLayCategory =10)]			
43		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw2047, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw1024)			
44		[(tcv_HS_Cfg.phyLayCategory =11) OR (tcv_HS_Cfg.phyLayCategory =12)]			
45		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
46		[TRUE]		I	Categori es 1 to 12 only allowed
47		[(p_Subtest = 4)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48		[(tcv_HS_Cfg.phyLayCategory =1) OR(tcv_HS_Cfg.phyLayCategory =2) OR(tcv_HS_Cfg.phyLayCategory =3) OR(tcv_HS_Cfg.phyLayCategory =4) OR(tcv_HS_Cfg.phyLayCategory =5) OR(tcv_HS_Cfg.phyLayCategory =6)]			
49		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
50		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
51		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
52		[(tcv_HS_Cfg.phyLayCategory =9)]			
53		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
54		[(tcv_HS_Cfg.phyLayCategory =10)]			
55		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw1024)			
56		[(tcv_HS_Cfg.phyLayCategory =11) OR(tcv_HS_Cfg.phyLayCategory =12)]			
57		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw128)			
58		[TRUE]		I	Categori es 1 to 12 only allowed
59		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SubtestInitVariables_UL_384k_HS(p_Subtest:INTEGER) Group : SubTest/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_Subtest = 1]			
2		[(tcv_HS_Cfg.phyLayCategory =1) OR (tcv_HS_Cfg.phyLayCategory =2)]			
3		(tcv_HS_Cfg.numberOfProcesses:=2, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
4		[(tcv_HS_Cfg.phyLayCategory =3) OR (tcv_HS_Cfg.phyLayCategory =4)]			
5		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
6		[(tcv_HS_Cfg.phyLayCategory =5) OR (tcv_HS_Cfg.phyLayCategory =6)]			
7		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
8		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
9		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1536, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
10		[(tcv_HS_Cfg.phyLayCategory =9) OR (tcv_HS_Cfg.phyLayCategory =10)]			
11		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw2047, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
12		[(tcv_HS_Cfg.phyLayCategory =11)]			
13		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
14		[(tcv_HS_Cfg.phyLayCategory =12)]			
15		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		[TRUE]		I	Categories 1 to 12 only allowed
17		[p_Subtest = 2]			
18		[(tcv_HS_Cfg.phyLayCategory =1) OR (tcv_HS_Cfg.phyLayCategory =2)]			
19		(tcv_HS_Cfg.numberOfProcesses:=2, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
20		[(tcv_HS_Cfg.phyLayCategory =3) OR (tcv_HS_Cfg.phyLayCategory =4)]			
21		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
22		[(tcv_HS_Cfg.phyLayCategory =5) OR (tcv_HS_Cfg.phyLayCategory =6)]			
23		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
24		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
25		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
26		[(tcv_HS_Cfg.phyLayCategory =9)]			
27		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
28		[(tcv_HS_Cfg.phyLayCategory =10)]			
29		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw1024)			
30		[(tcv_HS_Cfg.phyLayCategory =11)]			
31		(tcv_HS_Cfg.numberOfProcesses:=3, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
32		[(tcv_HS_Cfg.phyLayCategory =12)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33		(tcv_HS_Cfg.numberOfProcesses:=6, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
34		[TRUE]		I	Categori es 1 to 12 only allowed
35		[p_Subtest = 3]			
36		[(tcv_HS_Cfg.phyLayCategory =1) OR(tcv_HS_Cfg.phyLayCategory =2) OR(tcv_HS_Cfg.phyLayCategory =3) OR(tcv_HS_Cfg.phyLayCategory =4) OR(tcv_HS_Cfg.phyLayCategory =5) OR(tcv_HS_Cfg.phyLayCategory =6) OR(tcv_HS_Cfg.phyLayCategory =11) OR(tcv_HS_Cfg.phyLayCategory =12)]			
37		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
38		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
39		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1536, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
40		[(tcv_HS_Cfg.phyLayCategory =9)]			
41		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw2047, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
42		[(tcv_HS_Cfg.phyLayCategory =10)]			
43		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw2047, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw1024)			
44		[TRUE]		I	Categori es 1 to 12 only allowed
45		[(p_Subtest = 4)OR (p_Subtest = 5)]			
46		[(tcv_HS_Cfg.phyLayCategory =1) OR(tcv_HS_Cfg.phyLayCategory =2) OR(tcv_HS_Cfg.phyLayCategory =3) OR(tcv_HS_Cfg.phyLayCategory =4) OR(tcv_HS_Cfg.phyLayCategory =5) OR(tcv_HS_Cfg.phyLayCategory =6) OR(tcv_HS_Cfg.phyLayCategory =11) OR(tcv_HS_Cfg.phyLayCategory =12)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
47		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw256, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw256)			
48		[(tcv_HS_Cfg.phyLayCategory =7) OR (tcv_HS_Cfg.phyLayCategory =8)]			
49		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw512, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
50		[(tcv_HS_Cfg.phyLayCategory =9)]			
51		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw512)			
52		[(tcv_HS_Cfg.phyLayCategory =10)]			
53		(tcv_HS_Cfg.numberOfProcesses:=8, tcv_RAB_HSDPA_Info.receivingWindowSize:= rw1024, tcv_RAB_HSDPA_Info.transmissionWindowSi ze:=tw1024)			
54		[TRUE]		I	Categori es 1 to 12 only allowed
55		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RB_SubTest_RB25_HS (p_Subtest:INTEGER;p_Data : BITSTRING; p_TFC_UL : TFC_Subset; p_TestLoopModeSetup : UE_TestLoopMode1LB_Setup; p_Mac_D_PDUSize:INTEGER)					
Group : SubTest/					
Objective : SS limits the UE allowed uplink transport format combinations, SS closes the test loop, then SS transmit on RB20 4 RLC SDU's. UE shall send back the same RLC SDU. Refer to steps 11 to 17 of TS 34.123-1 clause 14.1.1					
Default : RRC_Def1					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SubtestInitVariables_HS(p_Subtest)			
2		(tcv_HarqProcess := (tcv_HS_Cfg.numberOfProcesses -1), tcv_HS_Cfg.noOfChannelisationCodes := 1, tcv_HS_Cfg.tbSizeIndexOnHS_SCCH := 19, tcv_HS_Cfg.channelisationCodeOffset :=1)			set to last value, so that first PDU sent will be with HARQ Process 0
3		+It_RBSetup			step 11-12
4		AM ! RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, p_TFC_UL))		??
5		+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, p_TestLoopModeSetup)			step 13 to 14
6		+ts_SS_TFC_Restriction_UL (tsc_CellDedicated, p_TFC_UL)			
7		+ It_Subtest			step 15 to 18
8		+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)			Step 19-20
9		+ts_RBRelease_HS(tsc_CellA)			
10		It_RBSetup [p_Mac_D_PDUSize =336]			repeat for 70 test points
11		+ts_RRC_SendRB_SetUpHS_LoopBack (tsc_CellA , c_UL_AM_RLC_tw_HSENH(tcv_RAB_HSDPA_Info.transmissionWindowSize),c_DL_AM_RLC_rw_HSENH(tcv_RAB_HSDPA_Info.receivingWindowSize),c_MAC_hs_AddReconfQueue336,320)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		[p_Mac_D_PDUSize =656]			repeat for 70 test points
13		+ts_RRC_SendRB_SetUpHS_LoopBack (tsc_CellA , c_UL_AM_RLC_tw_HSENH(tcv_RAB_HSDPA_Info.transmissionWindowSize),c_DL_AM_RLC_rw_PDU_Size656_HSENH(tcv_RAB_HSDPA_Info.receivingWindowSize),c_MAC_hs_AddReconfQueue656,640)			
14		[TRUE]		I	
		lt_Subtest			
15		(tcv_TestPointCount:=1)			
16		[p_Mac_D_PDUSize =336]			
17		REPEAT lt_TestPoint UNTIL [tcv_TestPointCount > 70]			repeat for 70 test points
18		[p_Mac_D_PDUSize =656]			
19		REPEAT lt_TestPoint UNTIL [tcv_TestPointCount > 42]			repeat for 42 test points
20		[TRUE]		I	
		lt_TestPoint			
21		+lt_TestPointQPSK			
22		+lt_TestPointQAM16			
23		(tcv_TestPointCount:= tcv_TestPointCount+1)			Test Point Not applicable
24		lt_TestPointQPSK +ts_TestPointInit(qpsk,p_Data,p_TestLoopModeSetup.IB_SetupRB_IE1.rLC_SDU_Size, p_Mac_D_PDUSize)			
25		[tcv_TestPoint.flag = TRUE]			
26		+ts_TestPointExecute_Rb25(tcv_RB_Data1, tcv_RB_Data2)			
27		[TRUE]			Test Point Not applicable
28		lt_TestPointQAM16 +ts_TestPointInit(qam16,p_Data,p_TestLoopModeSetup.IB_SetupRB_IE1.rLC_SDU_Size, p_Mac_D_PDUSize)			
29		[tcv_TestPoint.flag = TRUE]			
30		+ts_TestPointExecute_Rb25(tcv_RB_Data1, tcv_RB_Data2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		[TRUE]			Test Point Not applicable
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_TestPointExecute_Rb25(p_Data1_Tx, p_Data1_Rx:BITSTRING) Group : SubTest/ Objective : Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SS_ConfigToSndinOneMac_HsPDU(tsc_CellDedicated,tsc_RB25,4)			
2		AM ! RLC_AM_TestDataReq	cas_RLC_AM_DataReq (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Tx))		Step 14
3		AM ! RLC_AM_TestDataReq	cas_RLC_AM_DataReq (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Tx))		Step 14
4		AM ! RLC_AM_TestDataReq	cas_RLC_AM_DataReq (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Tx))		Step 14
5		AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Tx))		Step 14
6		AM ? RLC_AM_TestDataInd	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Rx))		Step 15
7		AM ? RLC_AM_TestDataInd	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Rx))		Step 15
8		AM ? RLC_AM_TestDataInd	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Rx))		Step 15
9		AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB25, c_TrD_Data(p_Data1_Rx))	(P)	Step 15
10		?TIMEOUT t_Dly		(F)	
11		?TIMEOUT t_Dly		(F)	
12		?TIMEOUT t_Dly		(F)	
13		?TIMEOUT t_Dly		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_TestPointInit(p_Mod:ModulationScheme;p_Data : BITSTRING;p_RLCDataSize : B16; p_Mac_D_PDUSize:INTEGER) Group : SubTest/ Objective : Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_Mac_D_PDUSize =336]			
2		(tcv_TestPoint:=o_CalculateTestPoint336(tcv_HS_Cfg.phyLayCategory,p_Mod,tcv_TestPointCount))			
3		[tcv_TestPoint.flag = TRUE]			
4		(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , ((320*tcv_TestPointCount)/4 -8)))			Data to be sent in DL, 4SDU's
5		(tcv_RB_Data2 := o_GetMostSignificantBits_WrapAround (tcv_RB_Data1 , BIT_TO_INT(p_RLCDataSize)))			Data received after loop back
6		(tcv_HS_Cfg.noOfChannelisationCodes :=tcv_TestPoint.noOfChannelisationCodes , tcv_HS_Cfg.tbSizeIndexOnHS_SCCH :=tcv_TestPoint.tbSizeIndexOnHS_SCCH , tcv_HS_Cfg.channelisationCodeOffset :=1)			??? initializtion for No of HAR processes missing
7		(tcv_HarqProcess :=(tcv_HarqProcess+1) MOD tcv_HS_Cfg.numberOfProcesses))			
8		+ ts_SS_HS_TFRC_ExplicitCfg (tsc_CellA)			
9		+ts_SS_HS_SetHARQProcessId(tsc_CellA,tcv_HarqProcess)			
10		[TRUE]			Test point not applicable
11		[p_Mac_D_PDUSize =656]			
12		(tcv_TestPoint:=o_CalculateTestPoint656(tcv_HS_Cfg.phyLayCategory,p_Mod,tcv_TestPointCount))			
13		[tcv_TestPoint.flag = TRUE]			
14		(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , ((640*tcv_TestPointCount)/4-8)))			Data to be sent in DL 4 SDUS
15		(tcv_RB_Data2 := o_GetMostSignificantBits_WrapAround (tcv_RB_Data1 , BIT_TO_INT(p_RLCDataSize)))			Data received after loop back

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		(tcv_HS_Cfg.noOfChannelisatonCodes :=tcv_TestPoint.noOfChannelisatonCodes , tcv_HS_Cfg.tbSizeIndexOnHS_SCCH :=tcv_TestPoint.tbSizeIndexOnHS_SCCH , tcv_HS_Cfg.channelisationCodeOffset :=1)			
17		(tcv_HarqProcess :=((tcv_HarqProcess+1) MOD tcv_HS_Cfg.numberOfProcesses))			
18		+ ts_SS_HS_TFRC_ExplicitCfg (tsc_CellA)			
19		+ts_SS_HS_SetHARQProcessId(tsc _CellA,tcv_HarqProcess)			
20		[TRUE]			Test point not applicabl e
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpHS_LoopBack (p_CellId: INTEGER;p_UL_AM_RLC_Mode:UL_AM_RLC_Mode;p_DL_AM_RLC_Mode:DL_AM_RLC_Mode_r 5;p_MacQueue:MAC_hs_AddReconfQueue; p_Payloadsize: INTEGER)					
Group : SubTest/					
Objective : To setup a RADIO BEARER cell_DCH_HS_DSCH and to reconfigure the SS accordingly.					
Default : RRC_Def1					
Comments : This Step is used by RLC test cases.					
See TS 34.108 clause 6.10.2.4.1.26					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP	+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CalculateActTime_r5 (p_CellId)			
3		+ lt_SendRB_Setup			
4		+ ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Mo dify_Mac_DSize(p_CellId,p_MacQueue)			
5		+ ts_SS_RB25_AM_PS_Cfg_twrw (tsc_CellDedicated, p_Payloadsize,p_UL_AM_RLC_Mode, p_DL_AM_RLC_Mode)			
6		+ ts_RRC_ReceiveRB_SetupCmplHS (p_CellId , cell_DCH_HS_DSCH)			
7		+ ts_SetCellCfg (p_CellId, cell_DCH_HS_DSCH)			
8		lt_SendRB_Setup			
9		[tcv_HS_Cfg.ul_DataRate = r384] AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)			
			cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_RB_SetUpHS_FromDC H_384kUL_LoopBack (
			tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id,		
			tcv_TmpCellInfo.ul_Scrambl ingCode,		
			tcv_TmpCellInfo.priScrmCo de,		
			c_RLC_InfoAM_twrw_HSE NH(p_UL_AM_RLC_Mode, p_DL_AM_RLC_Mode), p_MacQueue,		
			tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode, tcv_HS_Cfg		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		AM ? RLC_AM_DATA_CNF	) ) car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
11		[tcv_HS_Cfg.ul_DataRate = r64]			
12		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_RB_SetUpHS_FromDC H_UL_64k_LoopBack (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, tcv_RAB_Id, tcv_TmpCellInfo.ul_Scrambl ingCode, tcv_TmpCellInfo.priScrmCo de, c_RLC_InfoAM_twrw_HSE NH(p_UL_AM_RLC_Mode, p_DL_AM_RLC_Mode), p_MacQueue, tcv_TmpCellInfo.dl_DPCH_ 2ndScrCode, tcv_HS_Cfg)))		
13		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RelDPCH_NotMAC (p_CellId : INTEGER) Group : RRC_NA_SS_Steps/ Objective : Release a configured DPCH / DCH at the radio link & transport channel level. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId, tsc_UL_DPCH1)			
2		+ts_SS_StopRL (p_CellId, tsc_UL_DPCH1)			
3		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId, tsc_DL_DPCH1)			
4		+ts_SS_StopRL (p_CellId, tsc_DL_DPCH1)			
5		+ts_SetCellCfg (p_CellId, cell_NoDPCH)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SysInfoModifySIB2_RRC (p_CellId: INTEGER; p_SIB2 : SysInfoType2; p_Timing : INTEGER) Group : RRCM_SysInfo/Default/ Objective : To modify the the contents of SIB1. Default : InitOtherwiseFail Comments : 5 seconds shall be reserved for UE receiving and decoding the modified system information blocks after the SS broadcasting the new contents. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT = fdd]			
2		+ts_SendSIB2 (p_SIB2, p_CellId, p_Timing)			
3		+ts_SendMIB (tcv_MIB, p_CellId, p_Timing)			
4		+ ts_SendPage1_ModifySI (p_CellId, tcv_MIB.mib_ValueTag)			
5	ERR1	[px_RAT = tdd]		I	
6	ERR2	[TRUE]		I	
Detailed Comments : Before calling this test step, ts_SendDefSysInfo has to be called					

Test Step Dynamic Behaviour					
Test Step Name : ts_SaveBackMIB_SB1 (p_CellID: INTEGER) Group : RRCM_SysInfo/Default/ Objective : to initialise tcv_MIB and tcv_SB1 Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellID = tsc_CellA]			
2		(tcv_MIB_CellA := tcv_MIB, tcv_SB1_CellA := tcv_SB1)			
3		[p_CellID = tsc_CellB]			
4		(tcv_MIB_CellB := tcv_MIB, tcv_SB1_CellB := tcv_SB1)			
5		[p_CellID = tsc_CellC]			
6		(tcv_MIB_CellC := tcv_MIB, tcv_SB1_CellC := tcv_SB1)			
7		[p_CellID = tsc_CellD]			
8		(tcv_MIB_CellD := tcv_MIB, tcv_SB1_CellD := tcv_SB1)			
9		[p_CellID = tsc_CellE]			
10		(tcv_MIB_CellE := tcv_MIB, tcv_SB1_CellE := tcv_SB1)			
11		[p_CellID = tsc_CellF]			
12		(tcv_MIB_CellF := tcv_MIB, tcv_SB1_CellF := tcv_SB1)			
13		[p_CellID = tsc_CellG]			
14		(tcv_MIB_CellG := tcv_MIB, tcv_SB1_CellG := tcv_SB1)			
15		[p_CellID = tsc_CellH]			
16		(tcv_MIB_CellH := tcv_MIB, tcv_SB1_CellH := tcv_SB1)			
17		[TRUE]		(I)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitMIB_SB1 (p_CellID: INTEGER) Group : RRCM_SysInfo/Default/ Objective : to initialise tcv_MIB and tcv_SB1 Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellID = tsc_CellA]			
2		(tcv_MIB := tcv_MIB_CellA, tcv_SB1 :=tcv_SB1_CellA)			
3		[p_CellID = tsc_CellB]			
4		(tcv_MIB := tcv_MIB_CellB, tcv_SB1 :=tcv_SB1_CellB)			
5		[p_CellID = tsc_CellC]			
6		(tcv_MIB := tcv_MIB_CellC, tcv_SB1 :=tcv_SB1_CellC)			
7		[p_CellID = tsc_CellD]			
8		(tcv_MIB := tcv_MIB_CellD, tcv_SB1 :=tcv_SB1_CellD)			
9		[p_CellID = tsc_CellE]			
10		(tcv_MIB := tcv_MIB_CellE, tcv_SB1 :=tcv_SB1_CellE)			
11		[p_CellID = tsc_CellF]			
12		(tcv_MIB := tcv_MIB_CellF, tcv_SB1 :=tcv_SB1_CellF)			
13		[p_CellID = tsc_CellG]			
14		(tcv_MIB := tcv_MIB_CellG, tcv_SB1 :=tcv_SB1_CellG)			
15		[p_CellID = tsc_CellH]			
16		(tcv_MIB := tcv_MIB_CellH, tcv_SB1 :=tcv_SB1_CellH)			
17		[TRUE]		(I)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ModifiedRegionalParalnit6_1_2_SIB_11_12(p_CellId : INTEGER) Group : RRCM_SysInfo/Default/ Objective : to initialise the SIB11 and SIB12 appropriately Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellId = tsc_CellA]			
2		(tcv_SIB11:=tcv_IdleSIB11_CellA, tcv_SIB12:=tcv_IdleSIB12_CellA)			
3		[p_CellId = tsc_CellB]			
4		(tcv_SIB11:=tcv_IdleSIB11_CellB, tcv_SIB12:=tcv_IdleSIB12_CellB)			
5		[p_CellId = tsc_CellC]			
6		(tcv_SIB11:=tcv_IdleSIB11_CellC, tcv_SIB12:=tcv_IdleSIB12_CellC)			
7		[p_CellId = tsc_CellD]			
8		(tcv_SIB11:=tcv_IdleSIB11_CellD, tcv_SIB12:=tcv_IdleSIB12_CellD)			
9		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendModifiedSysInfoSIB11_12(p_CellId: INTEGER) Group : RRCM_SysInfo/Default/ Objective : To broadcast modified system information, with SIB 11 parametrised and no transmission of SIB 12. Presently defined only for cell A Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_ModifiedRegionalParaInit6_1_2_SIB_11_12(p_CellId)			
2		+ ts_InitMIB_SB1 (p_CellId)			
3		[px_RAT = fdd]			
4		+ts_SendSIB11_LongNeighCellInfo(tcv_SIB 11, p_CellId, tsc_Now)			
5		+ts_SendSIB12_LongNeighCellInfo(tcv_SIB12, p_CellId, tsc_Now)			
6		+ts_SendSB1_LongNeighCellInfo(tcv_SB1, p_CellId, tsc_Now)			
7		+ts_SendMIB(tcv_MIB, p_CellId, tsc_Now)			
8		+ts_SendPage1_ModifySI(p_CellId, tcv_MIB.mib_ValueTag)			
9		+ ts_SaveBackMIB_SB1 (p_CellId)			
10		[px_RAT = tdd]			
11		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendDefSysInfo_LongNeighCellInfo (p_CellId: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To broadcast default system information. Default : InitOtherwiseFail Comments : scheduling is defined in TS 34.123-3 clause 8.4.3.1, Before call this test step tcv_SIB11 and tcv_SIB12 have to be initialized. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Fetch record corresponding to current cell
2		+ ts_UTRAN_GERAN_ParaInit(p_CellId)			
3		+ts_CellDependentPara(p_CellId)			
4		+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)			
5		(tcv_MIB := c_MIB_DefLongNeighCellInfo (c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, c_FreqInfo (px_UARFCN_D_Mid - 950 , px_UARFCN_D_Mid), px_UL_ScramblingCode)), tcv_SB1 := c_SB1_DefLongNeighCellInfo)			
6		[px_RAT = fdd]			
7		+ts_SendSIB1_LongNeighCellInfo (cb_SIB1_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
8		+ts_SendSIB2_LongNeighCellInfo(tcv_SIB2 , p_CellId, tsc_Now)			
9		+ts_SendSIB3_LongNeighCellInfo(tcv_SIB3, p_CellId, tsc_Now)			
10		+ts_SendSIB4_LongNeighCellInfo(tcv_SIB4, p_CellId, tsc_Now)			
11		+ts_SendSIB5_LongNeighCellInfo(cb_SIB5_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
12		+ts_SendSIB6_LongNeighCellInfo(cb_SIB6_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
13		+ts_SendSIB7_LongNeighCellInfo(cb_SIB7_Def, p_CellId, tsc_Now)			
14		+ts_SendSIB11_LongNeighCellInfo(tcv_SIB11, p_CellId, tsc_Now)			
15		+ts_SendSIB12_LongNeighCellInfo(tcv_SIB12, p_CellId, tsc_Now)			
16		+ts_SendSIB18_LongNeighCellInfo(tcv_SIB18, p_CellId, tsc_Now)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		+ts_SendSB1_LongNeighCellInfo(tcv_SB1, p_CellId, tsc_Now)			
18		+ts_SendMIB(tcv_MIB, p_CellId, tsc_Now)			
19		+ts_SaveBackMIB_SB1(p_CellId)			
20	ERR1	[px_RAT = tdd]		I	
21	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSB1_LongNeighCellInfo (p_SB: SysInfoTypeSB1; p_CellId : INTEGER; p_Timing : INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SysInfoTypeSB1 to SS Default : InitOtherwiseFail Comments : scheduling defined in TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation (o_SIB_PER_Encoding (sB1 : p_SB)))			1.
2		[tcv_Segs.segCount =1]			
3		+ts_Scheduling(p_CellId, 4, 1, p_Timing)			3.
4		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
5		+It_CompleteSIB(schedulingBlock1)			4.
6		+ts_ChangeSB1_ValueTag			
7		(tcv_MIB.sibSb_ReferenceList.[0].scheduling := c_SB1_Schedul1, tcv_SB1_ValueTagChanged := FALSE)			
8		[tcv_Segs.segCount <>1]		I	2.
9		It_CompleteSIB(p_SIBType : SIB_Type)			
10		[LENGTH_OF(tcv_Segs.seg1) = 226]			
10		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
11		[LENGTH_OF(tcv_Segs.seg1) <> 226]			
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SB1 then segmentation. 2. The result of segmentation shall be one segment for the SB1 (current assumption). 3. Send the scheduling info to SS.(one segment; REP=16; POS=1). 4. Construct the system information message containing the first segment of SB1 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB11_LongNeighCellInfo(p_SIB: SysInfoType11; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIBType11 to SS Default : InitOtherwiseFail Comments : Maximum four segments, scheduling defined in TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB11 : p_SIB)))			1.
2		[tcv_Segs.segCount >4]		I	2.
3		[TRUE]			
4		[tcv_Segs.segCount = 1]			
5		(tcv_SB1.sib_ReferenceList.[2].sib_Type.sysInfoType11 := (tcv_SB1.sib_ReferenceList.[2].sib_Type.sysInfoType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[2].scheduling := c_SIB11_Schedul1_LongNeighCellInfo)			
6		+ts_ChangeSB1_ValueTag			
7		+ts_Scheduling(p_CellId, 6, 26, p_Timing)			3.
8		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
9		+It_CompleteSIB(systemInformationBlockType11)			12.
10		+ts_Scheduling(p_CellId, 6, 27, p_Timing)			5.
11		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
13		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			8.
14		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
16		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			10.
17		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
18		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
19		[tcv_Segs.segCount = 2]			
20		(tcv_SB1.sib_ReferenceList.[2].sib_Type.sysInfoType11 := (tcv_SB1.sib_ReferenceList.[2].sib_Type.sysInfoType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[2].scheduling := c_SIB11_Schedul2_LongNeighCellInfo)			
21		+ts_ChangeSB1_ValueTag			
22		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			10.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
25		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			8.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
28		+ts_Scheduling(p_CellId, 6, 26, p_Timing)			3.
29		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType11, 2, tcv_Segs.seg1))		4.
31		+ts_Scheduling(p_CellId, 6, 27, p_Timing)			5.
32		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
33		[LENGTH_OF(tcv_Segs.seg2) <= 214]			
34		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
35		[TRUE]			
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
37		[tcv_Segs.segCount = 3]			
38		(tcv_SB1.sib_ReferenceList[2].sib_Type.systemInformationType11 := (tcv_SB1.sib_ReferenceList[2].sib_Type.systemInformationType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList[2].scheduling := c_SIB11_Schedul3_LongNeighCellInfo)			
39		+ts_ChangeSB1_ValueTag			
40		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			10.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
43		+ts_Scheduling(p_CellId, 6, 27, p_Timing)			5.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
46		+ts_Scheduling(p_CellId, 6, 26, p_Timing)			3.
47		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
48		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType11, 3, tcv_Segs.seg1))		4.
49		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			8.
50		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
51		[LENGTH_OF(tcv_Segs.seg3) <= 214]			
52		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType11, 2, tcv_Segs.seg3))		9.
53		[TRUE]			
54		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType11, 2, tcv_Segs.seg3))		9.
55		[tcv_Segs.segCount = 4]			
56		(tcv_SB1.sib_ReferenceList.[2].sib_Type.systemInformationType11 := (tcv_SB1.sib_ReferenceList.[2].sib_Type.systemInformationType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[2].scheduling := c_SIB11_Schedul4_LongNeighCellInfo)			
57		+ts_ChangeSB1_ValueTag			
58		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			8.
59		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
60		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType11, 2, tcv_Segs.seg3))		6.
61		+ts_Scheduling(p_CellId, 6, 27, p_Timing)			5.
62		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
63		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
64		+ts_Scheduling(p_CellId, 6, 26, p_Timing)			3.
65		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
66		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType11, 4, tcv_Segs.seg1))		4.
67		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			10.
68		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
69		[LENGTH_OF(tcv_Segs.seg4) <= 214]			
70		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType11, 3, tcv_Segs.seg4))		11.
71		[TRUE]			
72		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType11, 3, tcv_Segs.seg4))		11.
73		It_CompleteSIB(p_SIBType : SIB_Type)			
74		[LENGTH_OF(tcv_Segs.seg1) = 226]			
74		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		
75		[TRUE]			
76		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		
Detailed Comments : 1. Unaligned PER encoding of the SIB11 then segmentation. 2. The result of segmentation shall be one or two or three or four segments for the SIB11 (current assumption). 3. Send the scheduling info for the first segment to SS. one segment: REP=64, POS=26. 4. Construct the system information message containing the first segment of SIB11 and send it to SS. 5. Send the scheduling info for second segment to SS. one segment: REP=64, POS=27. 6. Send no segment system information message to SS. 7. Construct the system information message containing the second segment of SIB11 and send it to SS. 8. Send the scheduling info for third segment to SS. one segment: REP=64, POS=29. 9. Construct the system information message containing the third segment of SIB11 and send it to SS. 10. Send the scheduling info for the fourth segment to SS. one segment: REP=64, POS=30. 11. Construct the system information message containing the fourth segment of SIB11 and send					

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Test Step Dynamic Behaviour	
Detailed Comments :	... it to SS. 12. Construct the system information message containing the complete SIB11 and send it to SS.

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB12_LongNeighCellInfo(p_SIB: SysInfoType12; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIBType12 to SS Default : InitOtherwiseFail Comments : If SIB12 is segmented into four segments, the last segment is concatenated with SIB7 Maximum 4 blocks, scheduling defined in TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs_SIB12 := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB12 : p_SIB)))			1.
2		[tcv_Segs_SIB12.segCount >4]		I	2.
3		[TRUE]			
4		[tcv_Segs_SIB12.segCount = 1]			
5		(tcv_SB1.sib_ReferenceList.[3].sib_Type.sysI nfoType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.sysI nfoType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul1_LongNeighCellInfo)			
6		+ts_ChangeSB1_ValueTag			
7		+ts_Scheduling(p_CellId, 6, 11, p_Timing)			3.
8		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
9		+It_CompleteSIB(systemInformationBl ockType12)			4.
10		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			5.
11		CMAC?CMAC_SYSINFO_Config _CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
13		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			8.
14		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
16		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			10.
17		CMAC?CMAC_SYSINF O_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
18		+It_CompleteSIB7			11.
19		[tcv_Segs_SIB12.segCount = 2]			
20		(tcv_SB1.sib_ReferenceList.[3].sib_Type.sysI nfoType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.sysI nfoType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul2_LongNeighCellInfo)			
21		+ts_ChangeSB1_ValueTag			
22		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			8.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
25		+ts_Scheduling(p_CellId, 6, 11, p_Timing)			3.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType12, 2, tcv_Segs_SIB12.seg1))		4.
28		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			10.
29		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
30		+lt_CompleteSIB7			11.
31		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			5.
32		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
33		[LENGTH_OF(tcv_Segs_SIB12.seg2) <= 214]			
34		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType12, 1, tcv_Segs_SIB12.seg2))		7.
35		[TRUE]			
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType12, 1, tcv_Segs_SIB12.seg2))		7.
37		[tcv_Segs_SIB12.segCount = 3]			
38		(tcv_SB1.sib_ReferenceList.[3].sib_Type.sysInfoType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.sysInfoType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul3_LongNeighCellInfo)			
39		+ts_ChangeSB1_ValueTag			
40		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			5.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType12, 1, tcv_Segs_SIB12.seg2))		7.
43		+ts_Scheduling(p_CellId, 6, 11, p_Timing)			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType12, 3, tcv_Segs_SIB12.seg1))		4.
46		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			10.
47		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
48		+lt_CompleteSIB7			11.
49		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			8.
50		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
51		[LENGTH_OF(tcv_Segs_SIB12.seg3) <= 214]			
52		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType12, 2, tcv_Segs_SIB12.seg3))		9.
53		[TRUE]			
54		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType12, 2, tcv_Segs_SIB12.seg3))		9.
55		[tcv_Segs_SIB12.segCount = 4]			
56		(tcv_SB1.sib_ReferenceList.[3].sib_Type.systemInformationType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.systemInformationType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul4_LongNeighCellInfo)			
57		+ts_ChangeSB1_ValueTag			
58		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			5.
59		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
60		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType12, 1, tcv_Segs_SIB12.seg2))		7.
61		+ts_Scheduling(p_CellId, 6, 11, p_Timing)			3.
62		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
63		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType12, 4, tcv_Segs_SIB12.seg1))		4.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
64		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			8.
65		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
66		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType12, 2, tcv_Segs_SIB12.seg3))		9.
67		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			10.
68		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
69		+It_LastSIB12_CompleteSIB7			13.
70		It_CompleteSIB(p_SIBType : SIB_Type)			
71		[LENGTH_OF(tcv_Segs_SIB12.seg1) = 226]			
72		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs_SIB12.seg1))		4.
73		[TRUE]			
74		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs_SIB12.seg1))		4.
75		It_CompleteSIB7			
76		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB7 : tcv_SIB7)))			
77		[tcv_Segs.segCount <>1]		I	12.
78		[TRUE]			
79		[LENGTH_OF(tcv_Segs.seg1) = 226]			
80		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(systemInformationBlockType 7, tcv_Segs.seg1))		
81		[TRUE]			
82		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(systemInformationBlockType 7, tcv_Segs.seg1))		
83		It_LastSIB12_CompleteSIB7			
		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB7 : tcv_SIB7)))			
		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs_SIB12.seg4)) > 197]		I	14.
		[TRUE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
84		TMIRLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastCmplList1(systemInformationBlockType 12, 3, tcv_Segs_SIB12.seg4, systemInformationBlockType 7, tcv_Segs.seg1))		15.
Detailed Comments : 1. Unaligned PER encoding of the SIB12 then segmentation. 2. The result of segmentation shall be one or two or three or four segments for the SIB12 (current assumption). 3. Send the scheduling info for first segment to SS. one segment: REP=64, POS=11 . 4. Construct the system information message containing first segment of SIB12 and send it to SS. 5. Send the scheduling info for second segment to SS. one segment: REP=64, POS=13. 6. Send no segment system information message to SS. 7. Construct the system information message containing second segment of SIB12 and send it to SS. 8. Send the scheduling info for third segment to SS. one segment: REP=64, POS=14 . 9. Construct the system information message containing third segment of SIB12 and send it to SS. 10. Send the scheduling info for fourth segment to SS. one segment: REP=64, POS=15 . 11. Construct the system information message containing SIB7 and send it to SS. This is necessary, when previous SIB12 is four segments and current is less than four segments. This is no harm when previous SIB12 is less than 4 segments. 12. SIB7 is too long. 13. Send last segment of SIB12 concatenated with complete SIB7. 14. SIB12 concatenated with SIB7 is too long. 15. Construct the system information message containing SIB7 concatenated with SIB12 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB18_LongNeighCellInfo (p_SIB: SysInfoType18; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIB18 to SS Default : InitOtherwiseFail Comments : SIB18 is concatenated with SIB7, default scheduling described in 3GPP TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB18 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB18 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB7 : tcv_SIB7))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) > 201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 23, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg2, systemInformationBlockType 18, tcv_Segs.seg1))		4.
7		(tcv_SB1.sib_ReferenceList.[4].sib_Type.sysInfoType18 := (tcv_SB1.sib_ReferenceList.[4].sib_Type.sysInfoType18) MOD 4 + 1)			
8		+ts_ChangeSB1_ValueTag			
Detailed Comments : 1. save the new value of SIB18, unaligned PER encoding of the SIB7 and SIB18. 2. The concatenated SIB7 and SIB18 is too long. 3. Send the scheduling info to SS. one segment: REP=64, POS=23. 4. Construct the system information message containing SIB7 + SIB18 and sent to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB1_LongNeighCellInfo (p_SIB: SysInfoType1; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIBType1 to SS Default : InitOtherwiseFail Comments : SIB1 is concatenated with SIB2. system information on air changes immediatly if p_Timing => 512. change of system information on air starts at the frame number = p_Timing. scheduling is defined in TS 34.123-3 subclause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB1 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB1: p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB2 : tcv_SIB2))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 10, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 1, tcv_Segs.seg1, systemInformationBlockType 2, tcv_Segs.seg2))		4.
7		(tcv_MIB.sibSb_ReferenceList.[1].sibSb_T ype.sysInfoType1 := (tcv_MIB.sibSb_ReferenceList.[1].sibSb_T ype.sysInfoType1) MOD 256 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new SIB1 value to tcv_SIB1, unaligned PER encoding of the SIB1 and SIB2. 2. The concatenated SIB1 and SIB2 is too long . 3. Send the scheduling info to SS. one segment: REP=64, POS=10. 4. Construct the system information message containing completeList of SIB1+SIB2 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB2_LongNeighCellInfo (p_SIB: SysInfoType2; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIB2 to SS Default : InitOtherwiseFail Comments : SIB2 is concatenated with SIB1 scheduling is defined in TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB2 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB2 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB1 : tcv_SIB1))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 10, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq (p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2 (systemInformationBlockType 1, tcv_Segs.seg2, systemInformationBlockType 2, tcv_Segs.seg1))		4.
7		(tcv_MIB.sibSb_ReferenceList.[2].sibSb_Type.sysInfoType2 := (tcv_MIB.sibSb_ReferenceList.[2].sibSb_Type.sysInfoType2) MOD 4 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new SIB2 value to tcv_SIB2, unaligned PER encoding of the SIB1 and SIB2. 2. The concatenated SIB1 and SIB2 is too long. 3. Send the scheduling info to SS. one segment, REP=64, POS=10. 4. Construct the system information message containing SIB2 + SIB1 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB3_LongNeighCellInfo(p_SIB: SysInfoType3; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIB3 to SS Default : InitOtherwiseFail Comments : SIB3 is concatenated with SIB7. Scheduling is defined in TS 34.123–3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB3 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB3 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB7 : tcv_SIB7))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg2, systemInformationBlockType 3, tcv_Segs.seg1))		4.
7		(tcv_MIB.sibSb_ReferenceList.[3].sibSb_T ype.sysInfoType3 := (tcv_MIB.sibSb_ReferenceList.[3].sibSb_T ype.sysInfoType3) MOD 4 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new value of SIB3 to tcv_SIB3, unaligned PER encoding of the SIB3 and SIB7. 2. The concatenated SIB3 and SIB7 is too long. 3. Send the scheduling info to SS. one segment; REP=64, POS=7. 4. Construct the system information message containing SIB7 + SIB3 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB4_LongNeighCellInfo(p_SIB: SysInfoType4; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIB4 to SS Default : InitOtherwiseFail Comments : SIB4 is concatenated with SIB7, scheduling defined in TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB4 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB4 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB7 : tcv_SIB7))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) > 201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 31, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg2, systemInformationBlockType 4, tcv_Segs.seg1))		4.
7		(tcv_MIB.sibSb_ReferenceList.[4].sibSb_Type.sysInfoType4 := (tcv_MIB.sibSb_ReferenceList.[4].sibSb_Type.sysInfoType4) MOD 4 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new value of SIB4 to tcv_SIB4, unaligned PER encoding of the SIB4 and SIB7. 2. The concatenated SIB4 and SIB7 is too long. 3. Send the scheduling info to SS. one segment; REP=64, POS=31. 4. Construct the system information message containing SIB7 + SIB4 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB5_LongNeighCellInfo (p_SIB: SysInfoType5; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIBType5 to SS Default : InitOtherwiseFail Comments : maximum 4 blocks, scheduling defined in TS34.123–3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation (o_SIB_PER_Encoding (sIB5 : p_SIB)))			1.
2		[tcv_Segs.segCount >4]		I	2.
3		[TRUE]			
4		[tcv_Segs.segCount = 1]			
5		+ts_Scheduling(p_CellId, 6, 18, p_Timing)			3.
6		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
7		+lt_CompleteSIB(systemInformationBlock Type5)			4.
8		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			5.
9		CMAC?CMAC_SYSINFO_Config_C NF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
10		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
11		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			8.
12		CMAC?CMAC_SYSINFO_Confi g_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
13		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
14		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			10.
15		CMAC?CMAC_SYSINFO_ Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
16		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
17		(tcv_MIB.sibSb_Referen ceList.[5].sibSb_Type.sys InfoType5 := (tcv_MIB.sibSb_Referen ceList.[5].sibSb_Type.sys InfoType5) MOD 4 + 1, tcv_MIB.sibSb_Referenc eList.[5].scheduling := c_SIB5_Schedul1_Long NeighCellInfo)			
18		+ts_ChangeMIB_Value Tag			
19		[tcv_Segs.segCount = 2]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		(tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type .sysInfoType5 := (tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type .sysInfoType5) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[5].scheduling := c_SIB5_Schedul2_LongNeighCellInfo)			
21		+ts_ChangeMIB_ValueTag			
22		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			8.
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
25		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			10.
26		CMAC?CMAC_SYSINFO_Config _CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
28		+ts_Scheduling(p_CellId, 6, 18, p_Timing)			3.
29		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInf ormationBlockType5, 2, tcv_Segs.seg1))		4.
31		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			5.
32		CMAC?CMAC_SYSINF O_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
33		[LENGTH_OF(tcv_Seg s.seg2) <= 214]			
34		TM!RLC_TR_DATA_ REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(syst emInformationBlockType5, 1, tcv_Segs.seg2))		7.
35		[TRUE]			
36		TM!RLC_TR_DATA_ REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInf ormationBlockType5, 1, tcv_Segs.seg2))		7.
37		[tcv_Segs.segCount = 3]			
38		(tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type .sysInfoType5 := (tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type .sysInfoType5) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[5].scheduling := c_SIB5_Schedul3_LongNeighCellInfo)			
39		+ts_ChangeMIB_ValueTag			
40		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			10.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
43		+ts_Scheduling(p_CellId, 6, 18, p_Timing)			3.
44		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType5, 3, tcv_Segs.seg1))		4.
46		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			5.
47		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
48		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType5, 1, tcv_Segs.seg2))		7.
49		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			8.
50		CMAC?CMAC_SYSINFO_O_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
51		[LENGTH_OF(tcv_Segs.seg3) <= 214]			
52		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType5, 2, tcv_Segs.seg3))		9.
53		[TRUE]			
54		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType5, 2, tcv_Segs.seg3))		9.
55		[tcv_Segs.segCount = 4]			
56		(tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type.sysInfoType5 := (tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type.sysInfoType5) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[5].scheduling := c_SIB5_Schedul4_LongNeighCellInfo)			
57		+ts_ChangeMIB_ValueTag			
58		+ts_Scheduling(p_CellId, 6, 18, p_Timing)			3.
59		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
60		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType5, 4, tcv_Segs.seg1))		4.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
61		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			5.
62		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
63		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType5, 1, tcv_Segs.seg2))		7.
64		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			8.
65		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
66		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType5, 2, tcv_Segs.seg3))		9.
67		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			10.
68		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
69		[LENGTH_OF(tcv_Segs.seg4) <= 214]			
70		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType5, 3, tcv_Segs.seg4))		11.
71		[TRUE]			
72		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType5, 3, tcv_Segs.seg4))		11.
73		It_CompleteSIB(p_SIBType : SIB_Type)			
74		[LENGTH_OF(tcv_Segs.seg1) = 226]			
74		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
75		[TRUE]			
76		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SIB5 then segmentation. 2. The result of segmentation shall be less than 5 segments for the SIB5 (current assumption). 3. Send the scheduling info for first segment to SS. one segment: REP=64, POS=18. 4. Construct the system information message containing first segment of SIB5 and send it to SS. 5. Send the scheduling info for second segment to SS. one segment: REP=64, POS=19. 6. Send no segment system information message to SS. 7. Construct the system information message containing second segment of SIB5 and send it to SS. 8. Send the scheduling info for third segment to SS. one segment: REP=64, POS=21.					

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Test Step Dynamic Behaviour	
Detailed Comments :	... 9. Construct the system information message containing third segment of SIB5 and send it to SS. 10. Send the scheduling info for third segment to SS. one segment: REP=64, POS=22. 11. Construct the system information message containing fourth segment of SIB5 and send it to SS.

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB6_LongNeighCellInfo(p_SIB: SysInfoType6; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIBType6 to SS Default : InitOtherwiseFail Comments : Maximum 4 blocks, scheduling defined in TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB6 : p_SIB)))			1.
2		[tcv_Segs.segCount >4]		I	2.
3		[TRUE]			
4		[tcv_Segs.segCount = 1]			
5		(tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul1_LongNeighCellInfo)			
6		+ts_ChangeSB1_ValueTag			
7		+ts_Scheduling(p_CellId, 6, 2, p_Timing)			3.
8		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
9		+It_CompleteSIB(systemInformationBl ockType6)			4.
10		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			5.
11		CMAC?CMAC_SYSINFO_Config _CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
13		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			8.
14		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
16		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			10.
17		CMAC?CMAC_SYSINF O_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
18		TM!RLC_TR_DATA_RE Q	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
19		[tcv_Segs.segCount = 2]			
20		(tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul2_LongNeighCellInfo)			
21		+ts_ChangeSB1_ValueTag			
22		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			8.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
25		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			10.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
28		+ts_Scheduling(p_CellId, 6, 2, p_Timing)			3.
29		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType6, 2, tcv_Segs.seg1))		4.
31		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			5.
32		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
33		[LENGTH_OF(tcv_Segs.seg2) <= 214]			
34		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
35		[TRUE]			
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
37		[tcv_Segs.segCount = 3]			
38		(tcv_SB1.sib_ReferenceList.[0].sib_Type.systemInformationType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.systemInformationType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul3_LongNeighCellInfo)			
39		+ts_ChangeSB1_ValueTag			
40		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			10.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
43		+ts_Scheduling(p_CellId, 6, 2, p_Timing)			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType6, 3, tcv_Segs.seg1))		4.
46		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			5.
47		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
48		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
49		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			8.
50		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
51		[LENGTH_OF(tcv_Segs.seg3) <= 214]			
52		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType6, 2, tcv_Segs.seg3))		9.
53		[TRUE]			
54		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType6, 2, tcv_Segs.seg3))		9.
55		[tcv_Segs.segCount = 4]			
56		(tcv_SB1.sib_ReferenceList.[0].sib_Type.sysInfoType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.sysInfoType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul4_LongNeighCellInfo)			
57		+ts_ChangeSB1_ValueTag			
58		+ts_Scheduling(p_CellId, 6, 2, p_Timing)			3.
59		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
60		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType6, 4, tcv_Segs.seg1))		4.
61		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			5.
62		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
63		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
64		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			5.
65		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
66		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType6, 2, tcv_Segs.seg3))		7.
67		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			10.
68		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
69		[LENGTH_OF(tcv_Segs.seg4) <= 214]			
70		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType6, 3, tcv_Segs.seg4))		11.
71		[TRUE]			
72		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType6, 3, tcv_Segs.seg4))		11.
73		It_CompleteSIB(p_SIBType : SIB_Type) [LENGTH_OF(tcv_Segs.seg1) = 226]			
74		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
75		[TRUE]			
76		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SIB6 then segmentation. 2. The result of segmentation shall be one or two or three or four segments for the SIB6 (current assumption). 3. Send the scheduling info for first segment to SS. one segment: REP=64, POS=2. 4. Construct the system information message containing the first segment of SIB6 and send it to SS. 5. Send the scheduling info for second segment to SS. one segment: REP=64, POS=3. 6. Send no segment system information message to SS. 7. Construct the system information message containing the second segment of SIB6 and send it to SS. 8. Send the scheduling info for third segment to SS. one segment: REP=64, POS=5. 9. Construct the system information message containing the third segment of SIB6 and send it to SS. 10. Send the scheduling info for fourth segment to SS. one segment: REP=64, POS=6. 11. Construct the system information message containing the fourth segment of SIB6 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB7_LongNeighCellInfo(p_SIB: SysInfoType7; p_CellId : INTEGER; p_Timing: INTEGER) Group : RRCM_SysInfo/Default_LongNeighCellInfo/ Objective : To deliver the SIB7 to SS Default : InitOtherwiseFail Comments : single SIB7 or concatenated with SIB3 or concatenated with SIB4 or concatenated with SIB18 or concatenated with last segment of SIB12, default scheduling described in 3GPP TS 34.123-3 clause 8.4.3.1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB7 : p_SIB)), tcv_SIB7 := p_SIB, tcv_Segs_SIB12 := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB12 : tcv_SIB12)))			1.
2		[tcv_Segs.segCount <>1]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		+It_CompleteSIB7OrLastSIB12_CompleteSIB7			4.
7		+It_ConcatWithSIB3			
8		+It_ConcatWithSIB18			
9		+It_ConcatWithSIB4			
		It_ConcatWithSIB3			
10		(tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB3 : tcv_SIB3))			5.
11		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	6.
12		[TRUE]			
13		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			7.
14		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg1, systemInformationBlockType 3, tcv_Segs.seg2))		8.
		It_ConcatWithSIB18			
16		(tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB18 : tcv_SIB18))			9.
17		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	10.
18		[TRUE]			
19		+ts_Scheduling(p_CellId, 6, 23, p_Timing)			11.
20		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg1, systemInformationBlockType 18, tcv_Segs.seg2))		12.
22		It_ConcatWithSIB4 (tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB4 : tcv_SIB4))			13.
23		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	14.
24		[TRUE]			
25		+ts_Scheduling(p_CellId, 6, 31, p_Timing)			15.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg1, systemInformationBlockType 4, tcv_Segs.seg2))		16.
28		It_CompleteSIB7OrLastSIB12_CompleteSIB7 [tcv_Segs_SIB12.segCount = 4]			
29		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs_SIB12.seg4)) > 197]		I	17.
30		[TRUE]			
31		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastCmplList1(systemInformationBlockType 12, 3, tcv_Segs_SIB12.seg4, systemInformationBlockType 7, tcv_Segs.seg1))		18.
32		[tcv_Segs_SIB12.segCount < 4]			
33		[LENGTH_OF(tcv_Segs.seg1) = 226]			
34		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(systemInf ormationBlockType7, tcv_Segs.seg1))		
35		[TRUE]			
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(systemInformationBlockType 7, tcv_Segs.seg1))		
37		[TRUE]		I	19.
Detailed Comments : 1. save the new value of SIB7, unaligned PER encoding of the SIB7 then segmentation. 2. The result of segmentation shall be one segment for the SIB7 (current assumption). 3. Send the scheduling info to SS. one segment: REP=64, POS=15. 4. Construct the system information message containing SIB7 or SIB12 + SIB7, and send it to SS.					

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Test Step Dynamic Behaviour					
Detailed Comments : ... 5. unaligned PER encoding of the SIB7 and SIB3. 6. concatenated SIB7 and SIB3 is too long. 7. Send the scheduling info to SS. one segment: REP=64, POS=7. 8. Construct the system information message containing SIB7 + SIB3 and send it to SS. 9. unaligned PER encoding of the SIB18. 10. concatenated SIB7 and SIB18 is too long. 11. Send the scheduling info to SS. one segment: REP=64, POS=23. 12. Construct the system information message containing SIB7 + SIB18 and send it to SS. 13. unaligned PER encoding of the SIB4. 14. concatenated SIB7 and SIB4 is too long. 15. Send the scheduling info to SS. one segment: REP=64, POS=31. 16. Construct the system information message containing SIB7 + SIB4 and send it to SS. 17. Last segment + SIB7 is too long. 18. Construct the system information message containing SIB12 + SIB7 and send it to SS. 19. SIB12 has more than 4 segments.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RLC_Continue_RB (p_RB_Id: INTEGER) Group : RRC_SS_Specific/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	cas_SS_stopContinue_RLC_entity (tsc_CellDedicated, p_RB_Id, sS_continue : NULL)		
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, p_RB_Id)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RLC_Stop_RB (p_RB_Id: INTEGER) Group : RRC_SS_Specific/ Objective : Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	cas_SS_stopContinue_RLC_entity (tsc_CellDedicated, p_RB_Id, sS_stop : NULL)		
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, p_RB_Id)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ConnectedModePagingType1 (p_CellId : INTEGER) Group : RRCM_Steps/ Objective : Page UE via PAGING TYPE 1 message when UE is in connected mode but not in CELL_DCH state. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ts_RRC_Delay(tsc_WaitBeforePaging)			Give delay before paging type1
3		+ts_CMAC_Pag1_Cfg(p_CellId)			
4		[tcv_CN_Domain = cs_domain]			
5		TM ! RLC_TR_DATA_REQ	cas_PagingType1(p_CellId, tsc_RB_PCCH, cs_PagingType1_UTRAN (tcv_TmpCellInfo.uRNTI))		
6		[tcv_CN_Domain = ps_domain]			
7		TM ! RLC_TR_DATA_REQ	cas_PagingType1(p_CellId, tsc_RB_PCCH, cs_PS_PagingType1_URNTI (tcv_TmpCellInfo.uRNTI))		
8	ERR1	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveTrChReconfCmpl (p_CellId : INTEGER; p_RbType: RB_ConfigType) Group : RRCM_Steps/ Objective : To receive TRANSPORT CHANNEL RECONFIGURATION COMPLETE message and reconfigure SS according to the received information element values. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3	TSP1	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_RB_ReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_TrChReconfCmpl (tcv_RRC_Ti, OMIT))	(P)	
4	TSF1	? TIMEOUT t_WaitMS		(F)	
Detailed Comments : 1. Ciphering is not started 2. Ciphering is started and RB(s) are mapped to RLC–TM 3. Ciphering is started and RB(s) are mapped to RLC–UM or/and RLC–AM. 4. Download UL cipher information to CMAC 6. Download UL ciphering information to CRLC					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendDefSysInfo_NewSIB1 (p_CellId : INTEGER; p_SIB : SysInfoType1)					
Group : RRCM_Steps/					
Objective : To broadcast system information with a particular SIB1 message.					
Default : InitOtherwiseFail					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_UTRAN_GERAN_Paralnit (p_CellId)			ts_SetT mpCellIn fo done already in ts_UTR AN_GE RAN_Pa ralnit
2		+ts_CellDependentPara (p_CellId)			
3		+ts_InitializeSIB2AndSIB18 (tcv_TmpCellInfo)			
4		+ts_InitializeSIB11_SIB12 (p_CellId)			
5		+ts_SendNoSegDefSchedul (p_CellId)			
6		+ts_SendSIB1 (p_SIB, p_CellId, tsc_Now)			
7		+ts_SendSIB2 (tcv_SIB2, p_CellId, tsc_Now)			
8		+ts_SendSIB3 (tcv_SIB3, p_CellId, tsc_Now)			
9		+ts_SendSIB4 (tcv_SIB4, p_CellId, tsc_Now)			
10		+ts_SendSIB5 (cb_SIB5_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
11		+ts_SendSIB6 (cb_SIB6_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
12		+ts_SendSIB7 (c_SIB7_Def, p_CellId, tsc_Now)			
13		+ts_SendSIB11 (tcv_SIB11, p_CellId, tsc_Now)			
14		+ts_SendSIB12 (tcv_SIB12, p_CellId, tsc_Now)			
15		+ts_SendSIB18 (tcv_SIB18, p_CellId, tsc_Now)			
16		+ts_SendSB1_DefSched ul (tcv_SB1, p_CellId, tsc_Now)			
17		+ts_SendMIB (tcv_MIB, p_CellId, tsc_Now)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GMM_ServReq (p_CellId :INTEGER) Group : RRC_M_NAS_Steps/ Objective : To receive a default SERVICE REQUEST message. Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest (c_ServiceType_v(?), c_MobileIdAny_lv,tcv_PS_KeySeq))		SERVICE REQUEST
2		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GMM_DetachOnSwitchOff (p_CellId : INTEGER) Group : L3M_MM_GMM_Steps/ Objective : Turn off UE and execute GMM Detach procedure for properly detach PS or combined PS/CS services on the cell referenced by p_CellId. Additionally, if Attach Flag is set, and the UE is in Operation Mode A, then IMSI DETACH INDICATION shall be send by the UE. Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_Delay(5000)			Wait before switching off (e.g. in case ATT flag has been previously changed) to allow UE to re-read new SysInfos
2		[pc_SwitchOnOff]			UE can actually be switched off
3		+ts_SetTmpCellInfo (p_CellId)			Get CellInfo to be used later
4		+lt_Init_RRC_RelStatus			
5		+ts_MMI_UE_SwitchOff			
6		+ts_RRC_ConnEst(p_CellId, est_MO, detach)			
7		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]			If UE is in operation mode A and network mode of operation is I, then run combined PS/CS procedures.
8		+lt_Detach_NMO_I			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9		+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)			
10		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_II)]			If UE is in operatio n mode A and network mode of operatio n is II, then run first CS and PS independ ently
11		+It_Detach_NMO_II			SS shall accept either PS detach first or IMSI detach first, since this is not clear in the core spec
12		+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)			
13		[tcv_UE_OpMode = opModeC]			If UE is in operatio n mode C, then run GMM procedur e (for PS only detach).
14		+It_Detach_POnly			
15		+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)			
16		[TRUE]			UE power supply must be removed
17		+ts_MMI_UE_PwrOff It_Init_RRC_RelStatus			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_No Conn)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCP			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		CH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated)] (tcv_RRC_RelStatus := cell_Fach_Dch)			Get CellInfo to be used later
20		[TRUE]			
21		(tcv_RRC_RelStatus := cell_Dch)			Get CellInfo to be used later
22		It_Detach_NMO_I Dc ? RRC_DataInd	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachReq (c_DetachType('1'B, '011'B), c_MobileIdPTMSI (tcv_AssignedPTMSI), c_PTMSI_Signature_tlv (tcv_Assigned_PTMSI_Sig)))	(P)	DETAC H REQUE ST – 'power switched off, GPRS/I MSI combine d detach'
23		It_Detach_POnly Dc ? RRC_DataInd	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachReq (c_DetachType('1'B, '001'B), c_MobileIdPTMSI (tcv_AssignedPTMSI), c_PTMSI_Signature_tlv (tcv_Assigned_PTMSI_Sig)))	(P)	DETAC H REQUE ST – 'power switched off, PS detach'
24		It_Detach_NMO_II Dc ? RRC_DataInd	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachReq (c_DetachType('1'B, '001'B), c_MobileIdPTMSI (tcv_AssignedPTMSI), c_PTMSI_Signature_tlv (tcv_Assigned_PTMSI_Sig)))	(P)	DETAC H REQUE ST – 'power switched off, GPRS detach'
25		[tcv_TmpCellInfo.attFlag = tsc_AttOn]			If ATTflag is ON

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		Dc ? RRC_DataInd	car_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, c_IMSI_DetachInd)	(P)	IMSI DETACH INDICATION
27		[TRUE]			
28		Dc ? RRC_DataInd	car_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, c_IMSI_DetachInd)	(P)	IMSI DETACH INDICATION
29		Dc ? RRC_DataInd	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachReq (c_DetachType('1'B, '001'B), c_MobileIdPTMSI (tcv_AssignedPTMSI), c_PTMSI_Signature_tlv (tcv_Assigned_PTMSI_Sig)))	(P)	DETACH REQUEST – 'power switched off, GPRS detach'
Detailed Comments : See 3GPP 24.008 / 4.7.4					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveCellUpdateNonPeriodic (p_CellId : INTEGER; p_PDU : UL_CCCH_Message; p_TimerValue : INTEGER)					
Group : L3M_RRC_Steps/					
Objective : To receive CELL UPDATE message and download SS security keys according to the received information element.					
Default : RRC_Def1					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP1	START t_UpperBound (p_TimerValue)	car_RRC_CellUpdate (p_CellId , tsc_RB0, p_PDU)	(P)	
2		TM ? RLC_TR_DATA_IND (tcv_StartList := RLC_TR_DATA_IND.tM_message.ul_CCCH_Message.message.cellUpdate.startList) CANCEL t_UpperBound			
3		+ lt_GetHFN			
4	TSF1	? TIMEOUT t_UpperBound		(F)	
		lt_GetHFN			
5		(tcv_Count := NUMBER_OF_ELEMENTS (tcv_StartList))			
6		[tcv_Count = 1]			1.
7		+ lt_FirstValue			
8		[tcv_Count = 2]			2.
9		+ lt_FirstValue			
10		+ lt_SecondValue			
11	ERR1	[TRUE]		F	
		lt_FirstValue			
12		[tcv_StartList.[0].cn_DomainIdentity = tsc_CS_Domain]			
13		(tcv_CellIndInfo.start_CS := tcv_StartList.[0].start_Value)			
14		[tcv_StartList.[0].cn_DomainIdentity = tsc_PS_Domain]			
15		(tcv_CellIndInfo.start_PS := tcv_StartList.[0].start_Value)			
16	ERR2	[TRUE]		F	
		lt_SecondValue			
17		[tcv_StartList.[1].cn_DomainIdentity = tsc_CS_Domain]			
18		(tcv_CellIndInfo.start_CS := tcv_StartList.[1].start_Value)			
19		[tcv_StartList.[1].cn_DomainIdentity = tsc_PS_Domain]			
20		(tcv_CellIndInfo.start_PS := tcv_StartList.[1].start_Value)			
21	ERR3	[TRUE]		F	
Detailed Comments : 1. There is only one STARTsingle in the received StartList 2. There are two STARTsingle in the received StartList					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceivePhyChReconfCmpl (p_CellId : INTEGER; p_RbType: RB_ConfigType) Group : L3M_RRC_Steps/ Objective : To receive PHYSICAL CHANNEL RECONFIGURATION COMPLETE message and reconfigure SS according to the received information element values. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3	TSF1	? TIMEOUT t_WaitMS		(F)	
4	TSP1	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_PhyChReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_PhyChannelReconfCmpl (tcv_RRC_Ti))	(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnRel_AfterSwitchOff (p_CellId: INTEGER; p_RRC_RelStatus : RRC_Rel_Status) Group : L3M_RRC_Steps/ Objective : To release RRC connection to be used in cases where the UE has been switched off (adapted from test step ts_RRC_ConnRel) Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_RRC_Delay (tsc_DelayBeforeRRC_ConnRel)			
3		+ It_Send_RRC_ConnectionRelease			
4		+ It_RestartCRLC_ForNextConnection			
5		+ ts_SS_ResetSecurityKey			
		It_RestartCRLC_ForNextConnection			
6		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB]			
7		+ ts_CRLC_RelReconfSRB (p_CellId)			
8		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
9		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS)]			
10		+ ts_CRLC_RelReconfSRB (p_CellId)			
11		+ ts_SetCellCfg (p_CellId, cell_FACH_NoConn)			
12		[tcv_TmpCellInfo.cellConfig = cell_FACH_BMC]			
13		+ ts_CRLC_RelReconfSRB (p_CellId)			
14		+ ts_SetCellCfg (p_CellId, cell_FACH_BMC_NoConn)			
15		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH]			
16		+ ts_CRLC_RelReconfSRB (p_CellId)			
17		+ ts_SetCellCfg (p_CellId, cell_FACH_2_PRACH_NoConn)			
18		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH]			
19		+ ts_CRLC_RelReconfSRB (p_CellId)			
20		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH_NoConn)			
21		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			
22		+ ts_CRLC_RelReconfSRB (p_CellId)			
23		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_NoConn)			
24		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1]			
25		+ ts_CRLC_RelReconfSRB (p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg1_No Conn)			
27		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2]			
28		+ ts_CRLC_RelReconfSRB (p_CellId)			
29		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg2_No Conn)			
30		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH]			
31		+ ts_CRLC_RelReconfSRB (p_CellId)			
32		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_CTCH_No Conn)			
33		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]			
34		+ ts_CRLC_RelReconfSRB (p_CellId)			
35		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a_N oConn)			
36		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)]			
37		+ ts_CRLC_RelReconfSRB (p_CellId)			
38		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_ NoConn)			
39		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]			
40		+ ts_CRLC_RelReconfSRB (p_CellId)			
41		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_ NoConn)			
42		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]			
43		+ ts_CRLC_RelReconfSRB (p_CellId)			
44		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_ NoConn)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
45		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call)]			
46		+ ts_SS_ReconfigRAB_ToSRB (p_CellId)			
47		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
48	ERR1	[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn)]		I	1.
49	ERR2	[TRUE]		I	
		It_Send_RRC_ConnectionRelease			
50		[p_RRC_RelStatus= cell_Dch]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51		(tcv_N308 := 1, tcv_K := 1)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
52		UM ! RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1,		
			cs_108_RRC_ConnRelDCCH(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_N308))		
53		START t_Dly(1000)			(P)
54		? TIMEOUT t_Dly			
55	TSP1	UM ? RLC_UM_DATA_IND CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	UE may not send RRC CONNECTION RELEASE COMPLETE
56		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			
57		[p_RRC_RelStatus = cell_Fach_Dcch]			UE sends RRC Connection Release Complete for N308 times
58		UM ! RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1,		
			cs_108_RRC_ConnRelDCCH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT))		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
59	TSP2	START t_Dly(1000)		(P)	UE may not send RRC CONNECTION RELEASE COMPLETE
60		? TIMEOUT t_Dly			
61		AM ? RLC_AM_DATA_IND CANCEL t_Dly			
62		+ ts_RRC_Delay (tsc_DelayAfterRRC_ConnRel)			
63	TSF2	[p_RRC_RelStatus = cell_Fach_Ccch]	car_RRC_ConnRelCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti)) cas_RRC_ConnRelCCCH(p_CellId, tsc_RB0, cs_108_RRC_ConnRelCCC H (c_U_RNTI, tcv_RRC_Ti))	(P)	Program ming error
64		UM!RLC_UM_DATA_REQ			
65		[TRUE]			
66		It_RptRcvConnRel			
67	TSF2	START t_Dly		(P)	To stop the loop
68		? TIMEOUT t_Dly (tcv_K := tcv_N308 + 1)			
69	TSP2	UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	Retrans mission
Detailed Comments : Note: Test step copied from original test step ts_RRC_ConnRel and then adapted to consider UEs which do not send RRC CONNECTION RELEASE COMPLETE after switch off.					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_PagType1_TMSI_PTMSI_Cau (p_CellId: INTEGER; p_Tmsi:OCTETSTRING; p_PagCause: PagingCause)					
Group : L3M_RRC_Steps/					
Objective : To send PAGING TYPE 1 with TIMSI for CS and PTMSI for PS and with a given paging cause					
Default : RRC_Def1					
Comments : SS CMAC shall be configured before sending the PAGING TYPE 1 message.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_Delay(tsc_WaitBeforePaging)			Give delay before paging type1
2		+ts_CMAL_Pag1_Cfg(p_CellId)			
3		[tcv_CN_Domain = cs_domain]			
4		TM ! RLC_TR_DATA_REQ	cas_PagingType1 (p_CellId, tsc_RB_PCCH, cs_RRC_PagingType1_TMSI (p_PagCause, o_ConvertTMSI(p_Tmsi), tcv_CN_Domain))		
5		[tcv_CN_Domain = ps_domain]			
6		TM ! RLC_TR_DATA_REQ	cas_PagingType1 (p_CellId, tsc_RB_PCCH, cs_RRC_PagingType1_PTM SI (p_PagCause, o_ConvertPTMSI (p_Tmsi), tcv_CN_Domain))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpDCH_57_6k_CS (p_CellId: INTEGER; p_RAB_Id : BITSTRING;p_ActTime: ActivationTime) Group : L3M_RRC_Steps/L3M_RRC_RAB_Steps/ Objective : To setup a RADIO BEARER cell_DCH_57_6kCS_RAB_SRB and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : This Step is used by RLC test cases. See TS 34.108 clause 6.10.2.4.17 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_108_RB_SetUp57_6k_CS(tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, p_ActTime, OMIT, p_RAB_Id, tcv_TmpCellInfo.priScrmCode, tcv_TmpCellInfo.uL_ScramblingCode))		
3		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
4		+ts_SS_2DCH_Modify (p_CellId, c_DCH_576_148_UL_Info(p_ActTime) , c_DCH_576_148_DL_Info(p_ActTime) , c_TrChInfoUL_576_148, c_TrChInfoDL_576_148, c_TrLogMappingUL_4DCCH_1DTCH, c_TrLogMappingDL_4DCCH_1DTCH, p_ActTime, cb_DL_DPCH_64K_CS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_Streaming), tcv_TmpCellInfo.dl_DPCH_2ndScrCode) , cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_TmpCellInfo.uL_ScramblingCode))			
5		+ts_SS_RB10_TM_Cfg (576)			
6	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_DCH_57_6kCS_RAB_SRB)			payload size= RLC payload size + RLC header
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpDCH_64k_CS (p_CellId: INTEGER; p_RAB_Id : BITSTRING;p_ActTime: ActivationTime)					
Group : L3M_RRC_Steps/L3M_RRC_RAB_Steps/					
Objective : To setup a RADIO BEARER cell_DCH_64kCS_RAB_SRB and to reconfigure the SS accordingly.					
Default : RRC_Def1					
Comments : This Step is used by RLC test cases.					
See tS 34.108 clause 6.10.2.4.1.13					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP	+ ts_SetTmpCellInfo (p_CellId)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_108_RB_SetUp64k_CS (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, p_ActTime, OMIT, p_RAB_Id, tcv_TmpCellInfo.priScrmCode, tcv_TmpCellInfo.uL_ScramblingCode)) car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
2		AM ! RLC_AM_DATA_REQ			
3		AM ? RLC_AM_DATA_CNF			
4		+ts_SS_2DCH_Modify(p_CellId, c_DCH_640_148_UL_Info(p_ActTime) , c_DCH_640_148_DL_Info(p_ActTime) , c_TrChInfoUL_640_148, c_TrChInfoDL_640_148, c_TrLogMappingUL_4DCCH_1DTCH, c_TrLogMappingDL_4DCCH_1DTCH, p_ActTime, cb_DL_DPCH_64K_CS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_CS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode) , cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_TmpCellInfo.uL_ScramblingCode))			
5		+ts_SS_RB10_TM_Cfg(640)			
6		+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_DCH_64kCS_RAB_SRB)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpDCH_64k_PS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime: ActivationTime) Group : L3M_RRC_Steps/L3M_RRC_RAB_Steps/ Objective : To setup a RADIO BEARER cell_DCH_64kPS_RAB_SRB and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : This Step is used by RLC test cases. See TS 34.108 clause 6.10.2.4.1.26 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_108_RB_SetUp64k_PS (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, p_ActTime, p_RAB_Id, tcv_TmpCellInfo.priScrmCode, tcv_TmpCellInfo.uL_ScramblingCode))		
3		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
4		+ts_SS_2DCH_Modify(p_CellId, cb_DCH_336_148_UL_Info (p_ActTime) , cb_DCH_336_148_DL_Info (p_ActTime) , cb_TrChInfoUL_336_148, cb_TrChInfoDL_336_148, cb_TrLogMappingUL_4DCCH_1DTCH_PS, cb_TrLogMappingDL_4DCCH_1DTCH_PS, p_ActTime, cb_DL_DPCH_64K_PS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_PS),tcv_TmpCellInfo.dl_DPCH_2ndScrCode) , cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.uL_ScramblingCode))			
5		+ts_SS_RB20_AM_PS_Cfg(320)			payload= RLC payload + RLC header
6	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_DCH_64kPS_RAB_SRB)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpDCH_Speech (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime: ActivationTime)					
Group : L3M_RRC_Steps/L3M_RRC_RAB_Steps/					
Objective : To setup a RADIO BEARER cell_DCH_Speech and to reconfigure the SS accordingly.					
Default : RRC_Def1					
Comments : This Step is used by RLC test cases. See TS 34.018 clause 6.10.2.4.1.4					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP	+ ts_SetTmpCellInfo (p_CellId)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_108_RB_SetUpSpeech (tcv_CellIndInfo.dl_Integrity CheckInfo , tcv_RRC_Ti , p_ActTime , p_RAB_Id, tcv_TmpCellInfo.priScrmCo de, tcv_TmpCellInfo.uL_Scrambl ingCode)) car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
2		AM ! RLC_AM_DATA_REQ			
3		AM ? RLC_AM_DATA_CNF			
4		+ts_SS_4DCH_Modify (p_CellId, p_ActTime, c_DL_CommonInformationRB_SetUpSpeech (tsc_DL_DPCH1_SFP_Speech) , cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech, pl0_84, tcv_TmpCellInfo.uL_ScramblingCode))			
5		+ts_SS_RB10_ToRB12_TM_Cfg			
6		+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_DCH_Speech)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpFACH_PS(p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime : ActivationTime) Group : L3M_RRC_Steps/L3M_RRC_RAB_Steps/ Objective : To setup a RADIO BEARER cell_FACH_PS and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : See TS 34.108 cl. 6.10.2.4.3.2.1.2 for downlink and 6.10.2.4.4.1.1.1 for uplink No channel reconfiguration is needed, because the complete configuration is setup in ts_SS_CreateCellFACH Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		(tcv_TmpCellInfo.cRNTI := '1010101010101010'B)			
3		+ ts_SaveCellInfo (p_CellId)			
4		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cbs_108_RB_SetUpFACH_PS (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, p_RAB_Id, tcv_TmpCellInfo.cRNTI))		
5		+ ts_RRC_Delay (80)			
6		+ts_CMAC_New_RNTI_Reconf (FALSE, p_CellId, tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI)			
7	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_PS)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SetUpRAB (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_RB_ConfigType : RB_ConfigType) Group : L3M_RRC_Steps/L3M_RRC_RAB_Steps/ Objective : To setup a RADIO BEARER for different configuration and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_CalculateActTime (p_CellId)			
2		[p_RB_ConfigType = cell_DCH_Speech]			
3		+ ts_RRC_SendRB_SetUpDCH_Speech (p_CellId, p_RAB_Id, tcv_ActTime)			
4		+ ts_SetCellCfg (p_CellId, cell_DCH_Speech)			1.
5		[p_RB_ConfigType = cell_DCH_64kCS_RAB_SRB]			
6		+ts_RRC_SendRB_SetUpDCH_64k_CS (p_CellId, p_RAB_Id, tcv_ActTime)			
7		+ ts_SetCellCfg (p_CellId, cell_DCH_64kCS_RAB_SRB)			1.
8		[p_RB_ConfigType = cell_DCH_57_6kCS_RAB_SRB]			
9		+ts_RRC_SendRB_SetUpDCH_57_6k_CS (p_CellId, p_RAB_Id, tcv_ActTime)			
10		+ ts_SetCellCfg (p_CellId, cell_DCH_57_6kCS_RAB_SRB)			1.
11		[p_RB_ConfigType = cell_FACH_PS]			
12		+ts_RRC_SendRB_SetUpFACH_PS(p_CellId, p_RAB_Id, tcv_ActTime)			
13		+ ts_SetCellCfg (p_CellId, cell_FACH_PS)			1.
14		[p_RB_ConfigType = cell_DCH_64kPS_RAB_SRB]			
15		+ ts_RRC_SendRB_SetUpDCH_64k_PS (p_CellId, p_RAB_Id, tcv_ActTime)			
16		+ ts_SetCellCfg (p_CellId, cell_DCH_64kPS_RAB_SRB)			1.
17		[(p_RB_ConfigType = cell_RLC_DCH_AM_RAB_7Lis) OR (p_RB_ConfigType = cell_RLC_DCH_UM_RAB_7Lis) OR (p_RB_ConfigType = cell_RLC_DCH_UM_RAB_15Lis) OR (p_RB_ConfigType = cell_RLC_DCH_AM_RAB_15Lis)]		I	1.
18		[(p_RB_ConfigType = cell_PDCP_AM_RAB) OR (p_RB_ConfigType = cell_PDCP_UM_RAB) OR (p_RB_ConfigType = cell_PDCP_AM_UM_RAB)]		I	2.
19		[(p_RB_ConfigType = cell_Two_DTCH)]		I	4.
20		[TRUE]		I	3.
Detailed Comments : 1. These configurations are applied to RLC test cases that should use specific Steps for this RAB setup procedure.					

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Test Step Dynamic Behaviour					
Detailed Comments : ... 2. These configurations are applied to PDCP test cases that should use specific Steps for this RAB setup procedure. 3. No RAB is defined for other configurations (contain only SRB) 4. This configurations is applied to RAB test cases that should use specific Steps for this RAB setup procedure.					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitialiseDlyAndTrafficClass Group : L3M_SM_Steps/ Objective : Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
2		(tcv_DlyClass := '011'B, tcv_TrafficClass := '011'B)			
3		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
4		(tcv_DlyClass := '100'B, tcv_TrafficClass := '100'B)			
5		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ReceiveActivatePDP_Accept_DCH (p_CellId :INTEGER) Group : L3M_SM_Steps/ Objective : To establish mobile originated PDP Context. Default : NAS_OtherwiseFail Comments : This test step will send PDP Context Accept to the UE. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Len:= LENGTH_OF((o_IA5_IP_ToOct (			Calculate the length field
2		px_PDP_IP_AddrInfoDCH , TRUE))) + 2) (tcv_LenBit:= o_IntToOct(tcv_Len, 1))			Convert length in INTEGER into bits
3		+ ts_InitialiseDlyAndTrafficClass			
4		[pc_UMTS_GSM = TRUE]			
5		[pc_Interactive AND (
6		px_RRC_PS_ServTested = ps_Interactive)] [tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address
7		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveOrBackgroundMT_lv(tcv_DlyClass, tcv_TrafficClass), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		Send PDP Context Activation Accept, with LLC SAPI set as 3
8		[TRUE]			If Static PDP Address Received
9		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveOrBackgroundMT_lv(tcv_DlyClass, tcv_TrafficClass), OMIT))		Send PDP Context Activation Accept, with LLC SAPI set as 3

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
11		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address
12		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveOrBackg roundMT_lv(tcv_DlyClass, tcv_TrafficClass), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		Send PDP Context Activation Accept, with LLC SAPI set as 3
13		[TRUE]			If Static PDP Address Received
14		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveOrBackg roundMT_lv(tcv_DlyClass, tcv_TrafficClass), OMIT))		Send PDP Context Activation Accept, with LLC SAPI set as 3
15	ERR1	[TRUE]		I	Parameter error
16		[pc_UMTS_GSM = FALSE]			
17		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
18		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveOrBackg roundMT_lv(tcv_DlyClass, tcv_TrafficClass), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH))		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)
20		[TRUE]			If Static PDP Address Received
21		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveOrBackg roundMT_lv(tcv_DlyClass, tcv_TrafficClass), OMIT)		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)
22		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
23		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address
24		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveOrBackg roundMT_lv(tcv_DlyClass, tcv_TrafficClass), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH))		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)
25		[TRUE]			If Static PDP Address Received

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveOrBackg roundMT_lv(tcv_DlyClass, tcv_TrafficClass), OMIT))		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)
27	ERR2	[TRUE]		I	Paramet er error
Detailed Comments : Step1 : If we receive PDP Context Activation Request, once again before expiry of T3380, this means that UE has not accepted the PDP Context Accept or some problem at the UE side.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SetTI_Rsp(p_tir: TI) Group : L3M_SM_Steps/ Objective : To set the value of TI when a message is sent from the network as a response to a request from the UE Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_TI_S.tiFlag := '1'B)			
2		(tcv_TI_S.tiVal := p_tir.tiVal)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_4DCH_Modify (p_CellId : INTEGER; p_ActTime : ActivationTime; p_DL_CommonInformation : DL_CommonInformation; p_UL_DPCH_Info : UL_DPCH_Info) Group : L3M_SS_ConfigSteps/ Objective : to modify physical channel DPCH1 and connect DCH1, DCH2, DCH3 and DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel and map DTCH(subflow#1), DTCH(subflow#2), DTCH(subflow#3) to the DCH1, DCH2, DCH3 transport channel respectively. Used for AMR speech. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_122_AMR (p_DL_CommonInformation , tcv_TmpCellInfo.dl_DPCH_2ndScrCode) ,p_ActTime)		1.
4		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
5		CPHY!CPHY_TrCH_Config_REQ	ca_4DCH_DL_Info (p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_NoSHO, p_ActTime)		2.
6		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_DL_DPCH1)		
7		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_122_AMR, c_TrLogMappingDL_4DCH_3DTCH ,p_ActTime)		3. C-RNTI and U-RNTI are not needed on DPCH
8		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		
9		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo (p_CellId, tsc_UL_DPCH1, p_UL_DPCH_Info ,p_ActTime)		1.
10		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_UL_DPCH1)		
11		CPHY!CPHY_TrCH_Config_REQ	ca_4DCH_UL_Info (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, p_ActTime)		2.
12		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_122_AMR, c_TrLogMappingUL_4DCC H_3DTCH,p_ActTime)		3. C-RNTI and U-RNTI are not needed on DPCH
14		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
15	ERR1	[px_RAT = tdd]		I	
16	ERR2	[TRUE]		I	
Detailed Comments : 1. configure new DPCH1for transporting conversational/speech/UL:12.2 DL:12.2 kbps/CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH. 2. connect DCH1, DCH2, DCH3 and DCH5 to DPCH1. 3. map logical channels: DCCH1-4 to DCH5, DTCH1 to DCH1, DTCH2 to DCH2, DTCH3 to DCH3 for both uplink and downlink and send relevant transport channel configuration information to MAC.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB10_TM_Cfg (p_PayLoad: INTEGER) Group : L3M_SS_ConfigSteps/ Objective : setup radio bearers : RB10. default values from 34.123–1Table 7.2/3A Default : SS_Def Comments : CRLC is configured with cellId –1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_TM_Info (tsc_CellDedicated , tsc_RB10, p_PayLoad, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1})		cofigure radio bearers : RB10 (TM + DTCH) note: set UE to AM mode correspo ndingly
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated , tsc_RB10)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB10_ToRB12_TM_Cfg Group : L3M_SS_ConfigSteps/ Objective : setup radio bearers : RB10, RB11, RB12 for radio beaer subflow#1, subflow#2, subflow#3 Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_TM_Info(tsc_CellDedicated, tsc_RB10, 81, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1})		cofigure radio bearers :
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(tsc_CellDedicated, tsc_RB10)		RB10 for AMR subflow #1
3		CRLC ! CRLC_Config_REQ	ca_RB_TM_Info(tsc_CellDedicated, tsc_RB11, 103, {uLogicalChannelIdentity tsc_UL_DTCH2, dLogicalChannelIdentity tsc_DL_DTCH2})		cofigure radio bearers :
4		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(tsc_CellDedicated, tsc_RB11)		RB11 for AMR subflow #2
5		CRLC ! CRLC_Config_REQ	ca_RB_TM_Info(tsc_CellDedicated, tsc_RB12, 60, {uLogicalChannelIdentity tsc_UL_DTCH3, dLogicalChannelIdentity tsc_DL_DTCH3})		cofigure radio bearers :
6		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(tsc_CellDedicated, tsc_RB12)		RB12 for AMR subflow #3
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_SwitchBackCellOn (p_CellId : INTEGER)					
Group : L3M_SS_ConfigSteps/					
Objective : To switch the power of the cell back from with special Attenuation value of 123, to the value stored in respective Cell Info record					
Default : SS_Def					
Comments : p_DedicCh shall be set to TRUE if the cell contains dedicated channel, otherwise FALSE					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	ERR	+ ts_SetTmpCellInfo (p_CellId)		I	Fetch table corresponding to the cell
2		[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]			Fatal error: cell not configured (programming error)
3		[tcv_TmpCellInfo.cellConfig <> cell_NotConfigured]			
4		CPHY!CPHY_Cell_TxPower_Modify_REQ			ca_CellTxPowerModiReq(p_CellId, tcv_TmpCellInfo.attenuation Level)
5		CPHY?CPHY_Cell_TxPower_Modify_CNF			ca_CellTxPowerModiCnf(p_CellId)
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_SwitchCellOff (p_CellId : INTEGER) Group : L3M_SS_ConfigSteps/ Objective : To switch the power of the cell to very low value, with special Attenuation value of 123. This value is not stored in the respective cell record. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Fetch table corresponding to the cell
2	ERR	[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]		I	Fatal error: cell not configured (programming error)
3		[tcv_TmpCellInfo.cellConfig <> cell_NotConfigured]			
4		CPHY!CPHY_Cell_TxPower_Modify_REQ	ca_CellTxPowerModiReq(p_CellId, tsc_AttenuationCellOFF)		
5		CPHY?CPHY_Cell_TxPower_Modify_CNF	ca_CellTxPowerModiCnf(p_CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CreateCell_GSM_Comb (p_CellId : CellId) Group : M_RAT_HO_CellConfig/ Objective : Default : SS_Def,IntersystemDef Comments : Create a GERAN cell which contains a physical channel carrying FCCH, SCH, BCCH, CCCH and SDCCH4 logical channels (CCCH and SDCCH combined). All parameters, except CellId, are taken from tcv_G_CellConfigInfo. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_G_SetTmpCellConfigInfo (p_CellId)			
2		+ts_SetBS_IdCode(p_CellId, tcv_G_CellConfigInfo.ncc, tcv_G_CellConfigInfo.bcc, tcv_G_CellConfigInfo.timingAdvance)			
3		(tcv_G_CellConfigInfo.cipherMode.startingCipher := '0'B)			
4		+ts_SS_CreatePhyChOfCombType5(p_CellId , tsc_PhyCh0)			
5		+ts_SendGSMSACCHSysInfo(p_CellId, tsc_PhyCh0, 5)			Make sure SI5 & 6 are sent on SACCH
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SetBS_IdCode(p_CellId : CellId;p_NCC, p_BCC : B3; p_TA :O1) Group : M_RAT_HO_CellConfig/ Objective : Default : SS_Def,IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1!G_CL1_CreateCell_REQ	ca_CellId(p_CellId, p_NCC, p_BCC, p_TA)		
2		G_CL1?G_CL1_CreateCell_CNF	ca_CellIdCnf(p_CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_CreatePhyChOfCombType11(p_CellId : CellId; p_PhyChId : PhysicalChId; p_FreqInfo : FreqInfo; p_TimeSlot : TN; p_Tsc : TSC; p_PCCHParams : PCCCH_OrganisationParameters; p_PBCCHInfo : PBCCH_Info) Group : M_RAT_HO_ChannelConfig/ Objective : Default : SS_Def,IntersystemDef Comments : PBCCH + PCCCH + PDTCH/F + PACCH/F + PTCCH/F Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1!G_CL1_CreateBasicPhyCh_REQ	ca_BasicPhyChCombType11 (p_CellId, p_PhyChId, tcv_G_CellConfigInfo, p_FreqInfo, p_TimeSlot, p_Tsc, p_PCCHParams, p_PBCCHInfo)		
2		G_CL1?G_CL1_CreateBasicPhyCh_CNF	ca_BasicPhyChCnf(p_CellId , p_PhyChId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_CreatePhyChOfCombType5 (p_CellId : CellId; p_PhyChId : PhysicalChId) Group : M_RAT_HO_ChannelConfig/ Objective : Default : SS_Def,IntersystemDef Comments : FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1!G_CL1_CreateBasicPhyCh_REQ	ca_BasicPhyChCombType5(p_CellId, p_PhyChId, tcv_G_CellConfigInfo, tcv_AuthKcGSM)		
2		G_CL1?G_CL1_CreateBasicPhyCh_CNF	ca_BasicPhyChCnf(p_CellId, p_PhyChId)		
3		G_CL2 ! G_CL2_MeasRptControl_REQ	ca_G_CL2_MeasRptControl_REQ(p_CellId, p_PhyChId, 5, 0, FALSE)		Turn Meas Rpts Off
4		G_CL2 ? G_CL2_MeasRptControl_CNF	ca_G_CL2_MeasRptControl_CNF(?, ?)		
5		G_CL2 ! G_CL2_MeasRptControl_REQ	ca_G_CL2_MeasRptControl_REQ(p_CellId, p_PhyChId, 5, 1, FALSE)		Turn Meas Rpts Off
6		G_CL2 ? G_CL2_MeasRptControl_CNF	ca_G_CL2_MeasRptControl_CNF(?, ?)		
7		G_CL2 ! G_CL2_MeasRptControl_REQ	ca_G_CL2_MeasRptControl_REQ(p_CellId, p_PhyChId, 5, 2, FALSE)		Turn Meas Rpts Off
8		G_CL2 ? G_CL2_MeasRptControl_CNF	ca_G_CL2_MeasRptControl_CNF(?, ?)		
9		G_CL2 ! G_CL2_MeasRptControl_REQ	ca_G_CL2_MeasRptControl_REQ(p_CellId, p_PhyChId, 5, 3, FALSE)		Turn Meas Rpts Off
10		G_CL2 ? G_CL2_MeasRptControl_CNF	ca_G_CL2_MeasRptControl_CNF(?, ?)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_CreatePhyChOfCombType13(p_CellId : CellId; p_PhyChId : PhysicalChId; p_FreqInfo : FreqInfo; p_TimeSlot : TN; p_Tsc : TSC) Group : M_RAT_HO_ChannelConfig/ Objective : Default : SS_Def,IntersystemDef Comments : PDTCH/F + PACCH/F + PTCCH/F Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1!G_CL1_CreateBasicPhyCh_REQ	ca_BasicPhyChCombType13 (p_CellId, p_PhyChId, tcv_G_CellConfigInfo, p_FreqInfo, p_TimeSlot, p_Tsc)		
2		G_CL1?G_CL1_CreateBasicPhyCh_CNF	ca_BasicPhyChCnf(p_CellId , p_PhyChId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendGSMsACCHSysInfo (p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_LogicChType: G_LogicChType) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : IntersystemDef Comments : To send SI5 & SI6 on SACCH Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_G_SetTmpCellConfigInfo (p_CellId)			
2		+ts_SendSysInfoType5 (p_CellId, p_PhyCh, p_LogicChType)			
3		+ts_SendSysInfoType6 (p_CellId, p_PhyCh, p_LogicChType, c_SI6_RO_Spare(tcv_G_CellConfigInfo.bandIndicator))			
4		[(px_GSM_BandUnderTest = tsc_GSM_P_900Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_E_900Band_Test)]			
5		+ts_SendSysInfoType5bis (p_CellId, p_PhyCh, p_LogicChType)			
6		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType1(p_CellId: INTEGER; p_PhyCh : PhysicalChId) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : no NCH position, all other parameters are taken from tcv_CellConfigInfo. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo1(p_CellId, p_PhyCh, tcv_G_CellConfigInfo.cellAllocation, c_RACH_ControlParam(tcv_G_CellConfigInfo.maxRetrans, tcv_G_CellConfigInfo.txInteger, tcv_G_CellConfigInfo.cell_BAR_ACCESS, tcv_G_CellConfigInfo.callReestablish, tcv_G_CellConfigInfo.accessControlClass2, tcv_G_CellConfigInfo.emergencyCall, tcv_G_CellConfigInfo.accessControlClass1), tcv_G_CellConfigInfo.bandIndicator)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType13(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_BCCHExt : B1; p_SI13RO : SI13RO) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo13(p_CellId, p_PhyCh, p_BCCHExt, p_SI13RO)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType2(p_CellId: INTEGER; p_PhyCh : PhysicalChId) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo2(p_CellId, p_PhyCh, tcv_G_CellConfigInfo.neigh BCCHFreqList, tcv_G_CellConfigInfo.nccP ermitted, c_RACH_ControlParam(tcv _G_CellConfigInfo.maxRetr ans, tcv_G_CellConfigInfo.txInt eger, tcv_G_CellConfigInfo.cell_B AR_ACCESS, tcv_G_CellConfigInfo.callRe estab, tcv_G_CellConfigInfo.acces sControlClass2, tcv_G_CellConfigInfo.emer gencyCall, tcv_G_CellConfigInfo.acces sControlClass1))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType2bis(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_InstanceIndex : INTEGER) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo2bis(p_CellId, p_PhyCh, p_InstanceIndex, tcv_G_CellConfigInfo.extNeighBCCHFReqList, c_RACH_ControlParam(tcv_G_CellConfigInfo.maxRetrans, tcv_G_CellConfigInfo.txInteger, tcv_G_CellConfigInfo.cell_BAR_ACCESS, tcv_G_CellConfigInfo.callReestablish, tcv_G_CellConfigInfo.accessControlClass2, tcv_G_CellConfigInfo.emergencyCall, tcv_G_CellConfigInfo.accessControlClass1))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType2quater(p_CellId: INTEGER; p_PhyCh : PhysicalChId;p_InstanceIndex : INTEGER; p_BCCHExt : B1; p_SI2quaterRO: SI2quaterRO) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo2quater(p_CellId, p_PhyCh, p_InstanceIndex, p_BCCHExt, p_SI2quaterRO)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType3(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_SI3RO : SI3RO) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo3(p_CellId, p_PhyCh, tcv_G_CellConfigInfo.cellId entity, c_LAI(o_ConvtPLMN(tcv_ G_CellConfigInfo.mcc, tcv_G_CellConfigInfo.mnc), tcv_G_CellConfigInfo.lac), c_ControlChDescr(tcv_G_CellConfigInfo.attFla g, tcv_G_CellConfigInfo.bS_A G_BLKs_RES, tcv_G_CellConfigInfo.cCC H_CONF, tcv_G_CellConfigInfo.bS_P A_MFRMS, tcv_G_CellConfigInfo.cellBa rQualify2, tcv_G_CellConfigInfo.t321 2), c_CellOptionBCCH(tcv_G_CellConfigInfo.dN_I nd, tcv_G_CellConfigInfo.pwrc, tcv_G_CellConfigInfo.dTX, tcv_G_CellConfigInfo.radio LinkTimeout), c_CellSelParam(tcv_G_CellConfigInfo.cELL _RESELECT_HYSTERESIS , tcv_G_CellConfigInfo.mS_T XPWR_MAX_CCH, tcv_G_CellConfigInfo.aCS, tcv_G_CellConfigInfo.nECI, tcv_G_CellConfigInfo.rXLE V_ACCESS_MIN), c_RACH_ControlParam(tcv _G_CellConfigInfo.maxRetr ans, tcv_G_CellConfigInfo.txInt eger, tcv_G_CellConfigInfo.cell_B AR_ACCESS, tcv_G_CellConfigInfo.callRe estab, tcv_G_CellConfigInfo.acces sControlClass2, tcv_G_CellConfigInfo.emer gencyCall, tcv_G_CellConfigInfo.acces sControlClass1), p_SI3RO)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType4(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_SI4RO: SI4RO) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo4(p_CellId, p_PhyCh, c_LAI(o_ConvtPLMN(tcv_ G_CellConfigInfo.mcc, tcv_G_CellConfigInfo.mnc), tcv_G_CellConfigInfo.lac), c_CellSelParam(tcv_G_CellConfigInfo.cELL _RESELECT_HYSTERESIS , tcv_G_CellConfigInfo.mS_T XPWR_MAX_CCH, tcv_G_CellConfigInfo.aCS, tcv_G_CellConfigInfo.nECI, tcv_G_CellConfigInfo.rXLE V_ACCESS_MIN), c_RACH_ControlParam(tcv_ G_CellConfigInfo.maxRetr ans, tcv_G_CellConfigInfo.txInt eger, tcv_G_CellConfigInfo.cell_B AR_ACCESS, tcv_G_CellConfigInfo.callRe estab, tcv_G_CellConfigInfo.acces sControlClass2, tcv_G_CellConfigInfo.emer gencyCall, tcv_G_CellConfigInfo.acces sControlClass1), p_SI4RO)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType5(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_LogicChType: G_LogicChType) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2!G_L2_SYSINFO_REQ	ca_SysInfo5(p_CellId, p_PhyCh, p_LogicChType, tcv_G_CellConfigInfo.neigh BCCHFReqList)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType5bis(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_LogicChType: G_LogicChType) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2IG_L2_SYSINFO_REQ	ca_SysInfo5bis(p_CellId, p_PhyCh, p_LogicChType, tcv_G_CellConfigInfo.extNeighBCCHFReqList)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoType6(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_LogicChType: G_LogicChType; p_SI6RO : SI6RO) Group : M_RAT_HO_SysInfoBroadcastGSM/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2IG_L2_SYSINFO_REQ	ca_SysInfo6(p_CellId, p_PhyCh, p_LogicChType, tcv_G_CellConfigInfo.cellId entity, c_LAI(o_ConvtPLMN(tcv_G_CellConfigInfo.mcc, tcv_G_CellConfigInfo.mnc), tcv_G_CellConfigInfo.lac), c_CellOptionSACCH(tcv_G_CellConfigInfo.dtx8, tcv_G_CellConfigInfo.pwrc, tcv_G_CellConfigInfo.dtx65, tcv_G_CellConfigInfo.radioLinkTimeout), tcv_G_CellConfigInfo.nccPermitted, p_SI6RO)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendDefPacketSysInfo(p_CellId: INTEGER ; p_PhyCh : PhysicalChId; p_PBCCHInfo : PBCCH_Info; p_PCCCHParams : PCCCH_OrganisationParameters; p_CellCnfgInfo : G_CellConfigInfo; p_RAC : O1; p_MeasOrder : PSI5Configuration)					
Group : M_RAT_HO_SysInfoBroadcastGPRS/					
Objective :					
Default :					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_CreateRLC_MAC_Entity(p_CellId)			
2		+It_SendPSI5and1			
3		+It_SendPSI2_1st			
4		+ts_SendPacketSysInfoType(p_CellId, p_PhyCh, tsc_HR_Category, tsc_Position1, c_PacketSysInfoType2_2nd (tcv_PSI2_Instance2.rFL_Contents_Len, tcv_PSI2_Instance2.rFL_Contents, tcv_PSI2_Instance2.mALen, tcv_PSI2_Instance2.mABitmap))			PSI2 2nd Instance
5		+ts_SendPacketSysInfoType(p_CellId, p_PhyCh, tsc_HR_Category, tsc_Position2, c_PacketSysInfoType2_3rd(tcv_PSI2_Instance3.rFL_Contents_Len, tcv_PSI2_Instance3.rFL_Contents, tcv_PSI2_Instance3.mALen, tcv_PSI2_Instance3.mABitmap))			PSI2 3rd Instance
6		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_HR_Category, tsc_Position3, c_PacketSysInfoType3(tcv_PSI3_Instance1.startFreq, tcv_PSI3_Instance1.freqDiffLen, tcv_PSI3_Instance1.freqDiff))			PSI3
7		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_LR_Category, tsc_Position0, c_PacketSysInfoType3bis(INT_TO_BIT(tsc_Position0, 4), tcv_PSI3_Instance2.startFreq, tcv_PSI3_Instance2.freqDiffLen, tcv_PSI3_Instance2.freqDiff))			PSI3bis 1st Instance
8		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_LR_Category, tsc_Position1, c_PacketSysInfoType3bis(INT_TO_BIT(tsc_Position1, 4), tcv_PSI3_Instance3.startFreq, tcv_PSI3_Instance3.freqDiffLen, tcv_PSI3_Instance3.freqDiff))			PSI3bis 2nd Instance
9		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_LR_Category, tsc_Position2, c_PacketSysInfoType3bis(INT_TO_BIT(tsc_Position2, 4), tcv_PSI3_Instance4.startFreq, tcv_PSI3_Instance4.freqDiffLen, tcv_PSI3_Instance4.freqDiff))			PSI3bis 3rd Instance
		It_SendPSI5and1			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		[p_MeasOrder = psi5]			
11		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_LR_Category, tsc_Position3, c_PacketSysInfoType5)			PSI5
12		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, 0, 31, c_PacketSysInfoType1(p_PBCCHInfo, p_PCCCHParams, p_CellCnfgInfo, tcv_NMO, '1'B))			Send PSI1 Message For PSI1, PositionI nList is not applicabl e and set to 31.
13		[p_MeasOrder = nopsi5]			
14		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh,0, 31, c_PacketSysInfoType1(p_PBCCHInfo, p_PCCCHParams, p_CellCnfgInfo, tcv_NMO, '0'B))			Send PSI1 Message For PSI1, PositionI nList is not applicabl e and set to 31.
15		It_SendPSI2_1st [tcv_AddPSIMsgs]			
16		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_HR_Category, tsc_Position0, c_PacketSysInfoType2_1st(p_CellCnfgInfo.mcc, p_CellCnfgInfo.mnc, p_CellCnfgInfo.lac, p_RAC, '1'B, c_AddPSI3quater))			PSI2 1st instance
17		[TRUE]			
18		+ts_SendPacketSysInfoType(p_CellId , p_PhyCh, tsc_HR_Category, tsc_Position0, c_PacketSysInfoType2_1st(p_CellCnfgInfo.mcc, p_CellCnfgInfo.mnc, p_CellCnfgInfo.lac, p_RAC, '0'B, OMIT))			PSI2 1st instance
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendPacketSysInfoType(p_CellId: INTEGER; p_PhyCh : PhysicalChId; p_Category : PSI_Category; p_Index : PositionInList; p_PSI : PDU) Group : M_RAT_HO_SysInfoBroadcastGPRS/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_RLC ! G_RLC_PSI_REQ	ca_G_RLC_PSI_REQ(p_CellId , p_PhyCh, p_Category, p_Index, p_PSI)		Send a PSI Message
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_G_DetachOnSwitchOff (p_CellId : INTEGER) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemGPRS Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[pc_SwitchOnOff]			UE can actually be switched off
2		+ts_MMI_UE_SwitchOff			
3		[tcv_NMO = '00'B]			
4		+lt_Detach_NMO1			Combined Detach
5		[tcv_NMO = '01'B]			
6		+lt_Detach_NMO2			SS shall accept either PS detach first or IMSI detach first, since this is not clear in the core spec
7		[TRUE]		I	
8		[TRUE]			UE power supply must be removed
9		+ts_MMI_UE_PwrOff			
		lt_Detach_NMO2			
10		+ts_G_IMSIDetach (p_CellId)			
11		[pc_GPRS]			
12		+ts_UplinkTBFOnePhase(p_CellId, tsc_PhyCh1)			
13		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEEntity, cr_DetachReq (c_DetachType('1'B, '001'B), ?, ?))		DETACH REQUEST – 'power switched off, GPRS detach'
14		[TRUE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		+ts_UplinkTBFOnePhase(p_CellId, tsc_PhyCh1)			
16		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_DetachReq (c_DetachType('1'B, '001'B), ?, ?))		DETAC H REQUE ST – 'power switched off, GPRS detach'
17		[pc_G_operation_mode_C]			That's it, don't do anything else
18		[TRUE]			
19		+ts_G_IMSIDetach (p_CellId)			
		It_Detach_NMO1			
20		+ts_UplinkTBFOnePhase(p_CellId, tsc_PhyCh1)			GPRS DETAC H
21		[pc_G_operation_mode_C]			
22		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_DetachReq (c_DetachType('1'B, '001'B), ?, ?))		DETAC H REQUE ST – 'power switched off, GPRS detach'
23		[TRUE]			
24		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_DetachReq (c_DetachType('1'B, '011'B), ?, ?))		DETAC H REQUE ST – 'power switched off, combine d detach'
25		+ts_G_IMSIDetach (p_CellId)			Should only do this if no GPRS cell configur ed
Detailed Comments : See 3GPP 24.008 / 4.7.4					

Test Step Dynamic Behaviour					
Test Step Name : ts_G_ModifyPDP_Context_AcceptOrDeactivate(p_CellId : CellId; p_PhysicalChId : PhysicalChId; p_LLC_SAPI_v: LLC_SAPI_v; p_qos_lv: QualityOfService_lv) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemGPRS Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_DownlinkTBFEstablishment(p_CellId, p_PhysicalChId, bcch)			
2		[px_GSM_CipheringOnOff = '1'B]			@R5s050349sic@
3		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLC_Sapi_GMM, tsc_LLC_PM, tsc_LLC_Cipher, cbs_Modify_PDP_ContextReq_MT(tcv_TI_S, p_LLC_SAPI_v, p_qos_lv))		Send Modify PDP Context Request message @R5s050349sic@
4		+ts_UplinkTBFOnePhase(p_CellId, p_PhysicalChId)			
5		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cbr_Modify_PDP_ContextAcp_MO)	(P)	either receive Modify PDP Context Activation Accept message
6		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cbr_Deact_PDP_ContextReq_MO(cbs_SM_Cause_v('25'O)))	(P)	or receive Deactivate PDP Context from the UE with cause set to QoS not acceptable
7		+ts_DownlinkTBFEstablishment(p_CellId, p_PhysicalChId, bcch)			
8		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLC_Sapi_GMM, tsc_LLC_PM, tsc_LLC_Cipher, cbs_Deact_PDP_ContextAcp_MT(tcv_TI_S))		@R5s050349sic@
9		START t_3390			UE may optionally send Detach Request

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		+ts_UplinkTBFOnePhase(p_CellId, p_PhysicalChId)			
11		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_DetachRequest_MO)	(P)	
12		+ts_DownlinkTBFEstablishment(p _CellId, p_PhysicalChId, bcch)			
13		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLC_Sapi_GMM, tsc_LLC_PM, tsc_LLC_Cipher, cs_DetachAcc)		@R5s05 0349 sic@
14		(tcv_Count := 1)			Update this so test case knows not to detach on switch off
15		? TIMEOUT t_3390			
16		[px_GSM_CipheringOnOff = '0'B]			@R5s05 0349 sic@
17		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLC_Sapi_GMM, tsc_LLC_PM, tsc_LLC_NoCiph, cbs_Modify_PDP_Context Req_MT(tcv_TI_S, p_LLC_SAPI_v, p_qos_lv))		Send Modify PDP Context Request message
18		+ts_UplinkTBFOnePhase(p_CellId, p_PhysicalChId)			
19		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cbr_Modify_PDP_ContextA cp_MO)	(P)	either receive Modify PDP Context Activatio n Accept message
20		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cbr_Deact_PDP_ContextRe q_MO(cbs_SM_Cause_v('2 5'O)))	(P)	or receive Deactiva te PDP Context from the UE with cause set to QoS not acceptab le
21		+ts_DownlinkTBFEstablishment(p_CellId, p_PhysicalChId, bcch)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEEntity, tcv_TLLI, tsc_LLCSapi_GMM, tsc_LLC_PM, tsc_LLC_NoCiph, cbs_Deact_PDP_ContextA cp_MT(tcv_TI_S))	(P)	UE may optionally send Detach Request
23		START t_3390			
24		+ts_UplinkTBFOnePhase(p_CellId, p_PhysicalChId)			
25		G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEEntity, cr_DetachRequest_MO)		
26		+ts_DownlinkTBFEstablishment(p _CellId, p_PhysicalChId, bcch)			
27		G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEEntity, tcv_TLLI, tsc_LLCSapi_GMM, tsc_LLC_PM, tsc_LLC_NoCiph, cs_DetachAcc)		
28		(tcv_Count := 1)			
29		? TIMEOUT t_3390			Update this so test case knows not to detach on switch off
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ULTBFOnePhase(p_CellId : CellId; p_PhysicalChId : PhysicalChId) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemGPRS Comments : Ensure tcv_GPRS_CiphAlg, tcv_RR_RA and tcv_RR_RFN are set to the correct value before entering this test step Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1 ! G_CL1_ComingFN_REQ	c_G_CL1_ComingFN_REQ(p_CellId, tsc_PhyCh1, tsc_PACCH_F)		
2		G_CL1 ? G_CL1_ComingFN_CNF (tcv_StartingTime := G_CL1_ComingFN_CNF.rfn)	c_G_CL1_ComingFN_CNF		
3		G_L2 ! G_L2_UNITDATA_REQ	cas_G_L2_UNITDATA_REQ (p_CellId, tsc_PhyCh0, tsc_AGCH, 15, c_G_RFN_Omit, cs_P_ImmediateAssignment ('0'B, tcv_ARFCN , tcv_RR_RA , tcv_RR_RFN, c_IARO_PUA(tcv_Gamma, o_BitstringConcat(o_Bitstri ngConcat(tcv_StartingTime. t1_, tcv_StartingTime.t3, 5, 6), tcv_StartingTime.t2, 11, 5))))		Set Poll bit so that a PCA is received
4		G_CRLC ! G_CRLC_UL_TBF_Config_REQ	ca_ActivateTBF_UplinkDyn (p_CellId, tsc_RlcMode_Ack, 1)		Configur e the Uplink TBF for Dynamic Allocatio n, USF 0 on timeslot 4
5		G_CRLC? G_CRLC_UL_TBF_Config_CNF	ca_Activate_UL_TBF_CNF		
6		G_RLC ? G_RLC_ControlMsg_IND (tcv_TmpPktCtrlAckPdu := G_RLC_ControlMsg_IND.msg)	car_G_RLC_ControlMsg_I ND(p_CellId, p_PhysicalChId, cr_PacketControlAcknowl gement)		Extract the TLLI
7		[tcv_TmpPktCtrlAckPdu.tLLI = tcv_TLLI]			if the TLLI hasn't changed , don't bother calling LLCAssi gnReq
8		[TRUE]			this TLLI is new
9		(tcv_oldTLLI := tcv_TLLI, tcv_Count := 0, tcv_TLLI := tcv_TmpPktCtrlAckPdu.tLLI)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		+ts_LLC_TLLI_Assign(p_CellId, tcv_oldTLLI, tcv_TLLI, tcv_GPRS_CipherAlg)			Assign the value received from the MS
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_UplinkTBFOnePhase(p_CellId : CellId; p_PhysicalChId : PhysicalChId) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemGPRS Comments : Ensure tcv_GPRS_CiphAlg is set to the correct value before entering this test step Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2 ? G_L2_ACCESS_IND (tcv_RR_RFN := G_L2_ACCESS_IND.rfn , tcv_ChRequest := G_L2_ACCESS_IND.burst)	cabr_G_L2_ACCESS_IND (p_CellId , tsc_PhyCh0 , 1 , ? , ? , cr_ChanReqOnePhase)		Receive CHANN EL
2		(tcv_RR_RA := (BIT_TO_INT (			REQUE ST message
3		tcv_ChRequest.estCauRandomRef))) [(tcv_RR_RA > 119) AND (tcv_RR_RA < 127)]		(P)	establi shment cause = one phase packet access
4		+ts_ULTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)			
5		[TRUE]		(F)	Wrong establi shment cause
6		+ts_ULTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_DownlinkTBFEstablishment(p_CellId : CellId; p_PhysicalChId : PhysicalChId; b_PBCCH : GPRSCellConfiguration) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemGPRS Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CRLC ! G_CRLC_DL_TBF_Config_REQ	ca_ActivateTBF_Downlink(p_CellId, p_PhysicalChId, tsc_RlcMode_Ack, tcv_USFRate)		
2		G_CRLC ? G_CRLC_DL_TBF_Config_CNF	ca_Activate_DL_TBF_CNF		
3		[b_PBCCH = pbcch]			
4		(tcv_M := (12 – BIT_TO_INT(tcv_PCCCHParams.bS_PAG_B LKS_RES) – BIT_TO_INT(tcv_PCCCHParams.bS_PBCC H_BLKs))*64)			for PCCCH
5		G_RLC ! G_RLC_ControlMsg_REQ	cas_G_RLC_ControlMsg_R EQ_Paging(p_CellId, p_PhysicalChId, tsc_downlinkTFI, '1'B, px_IMSI_Def, 1, tcv_M, 1, 0, tcv_SplitPGCycle.splitPGcycleCode, c_PacketDownlinkAssignment(tcv_TLLI, tsc_downlinkTFI, tcv_Gamma))		p_KC_Conf = 1 – only one GPRS physical channel, N = 1 for PCCCH Request PCA
6		G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(p_CellId, p_PhysicalChId, cr_PacketControlAcknowledgement)		
7		[b_PBCCH = bcch]			
8		[(tcv_SplitPGCycle.splitPGcycleCode = '00000000'B) OR (tcv_SplitPGCycle.splitOnCCCH = '0'B)]			
9		(tcv_K := o_PagingGroupCalculate(px_IMSI_Def, tcv_G_CellConfigInfo.cCCH_CONF, 6))			use calculation in clause 6.5.2
10		+lt_SendIA			
11		[TRUE]			use calculation in 6.5.6
12		(tcv_M := (3 – BIT_TO_INT(tcv_G_CellConfigInfo.bS_AG _BLKS_RES))*64)			for CCCH/SDCCH combined

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		(tcv_K := o_PacketPagingGroupCalculate(px_IMSI_ Def, BIT_TO_INT(tcv_G_CellConfigInfo.cCCH _CONF), tcv_M, (3 – BIT_TO_INT(tcv_G_CellConfigInfo.bS_A G_BLKES_RES))* BIT_TO_INT(tcv_G_CellConfigInfo.bS_P A_MFRMS), tcv_SplitPGCycle.splitPGcycleCode))			for CCCH/ SDCCH combine d
14		+lt_SendIA			
15		lt_SendIA G_L2 ! G_L2_Paging_REQ	ca_G_Paging_REQ (p_CellId , tcv_K, cs_P_ImmediateAssignment ('1'B, tcv_ARFCN , 0, c_RFN_0, c_IARO_PDA(tcv_TLLI, tcv_Gamma)))		Send immediat e assignm ent message in slot correspo nding to appropri ate CCCH or PCCCH group
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_Delete_GPRS_Entities (p_CellId : CellId; p_PhyChId : PhysicalChId; p_LLMEEntity : LLMEId) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CRLC ! G_CRLC_DeleteRLC_MAC_REQ	ca_G_CRLC_DeleteRLC_M AC_REQ(p_CellId)		
2		G_CRLC ? G_CRLC_DeleteRLC_MAC_CNF	ca_G_CRLC_DeleteRLC_M AC_CNF		
3		G_CLLC ! G_CLLC_DeleteLLE_REQ	ca_G_CLLC_DeleteLLE_RE Q(p_LLMEEntity)		
4		G_CLLC ? G_CLLC_DeleteLLE_CNF	ca_G_CLLC_DeleteLLE_C NF		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : po_GPRS_SS_CellRelease (p_CellId : CellId) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1 ! G_CL1_DeleteChannel_REQ	ca_G_CL1_DeleteChannel_REQ (p_CellId , tsc_PhyCh0)		
2		G_CL1 ? G_CL1_DeleteChannel_CNF	ca_G_CL1_DeleteChannel_CNF (p_CellId , tsc_PhyCh0)		
3		G_CL1 ! G_CL1_DeleteChannel_REQ	ca_G_CL1_DeleteChannel_REQ (p_CellId , tsc_PhyCh1)		
4		G_CL1 ? G_CL1_DeleteChannel_CNF	ca_G_CL1_DeleteChannel_CNF (p_CellId , tsc_PhyCh1)		
5		G_CL1 ! G_CL1_DeleteCell_REQ	ca_G_CL1_DeleteCell_REQ (p_CellId)		
6		G_CL1 ? G_CL1_DeleteCell_CNF	ca_G_CL1_DeleteCell_CNF (p_CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CreateRLC_MAC_Entity(p_cellId: CellId) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CRLC ! G_CRLC_CreateRLC_MAC_REQ	ca_G_CRLC_CreateRLC_MAC_REQ(p_cellId)		
2		G_CRLC ? G_CRLC_CreateRLC_MAC_CNF	ca_G_CRLC_CreateRLC_MAC_CNF(p_cellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_Create_LLE_Entity(p_cellId : CellId; p_LLMEId: LLMEId) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CLLC ! G_CLLC_CreateLLE_REQ	ca_G_CLLC_CreateLLE_REQ(p_LLMEId, p_cellId)		
2		G_CLLC ? G_CLLC_CreateLLE_CNF	ca_G_CLLC_CreateLLE_CNF(p_LLMEId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_LLC_TLLI_Assign(p_cellId : CellId; p_oldTLLI, p_newTLLI: TLLI; p_CipherAlg : GPRS_CipherAlg) Group : M_RAT_HO_GPRS_Specific/ Objective : Default : IntersystemDef Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CLLC ! G_CLLC_Assign_REQ	ca_G_CLLC_Assign_Req(p_cellId , p_oldTLLI, p_newTLLI, p_CipherAlg, tcv_AuthKcGSM)		
2		G_CLLC ? G_CLLC_Assign_CNF	ca_G_CLLC_Assign_CNF(?)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_G_IMSIDetach(p_CellId : INTEGER) Group : M_RAT_HO_GSM_Specific/ Objective : Default : Comments : Assume UE already switched off Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_L2 ? G_L2_ACCESS_IND (tcv_RR_RFN := G_L2_ACCESS_IND.rfn , tcv_ChRequest := G_L2_ACCESS_IND.burst, tcv_RR_RA := (BIT_TO_INT (tcv_ChRequest.estCauRandomRef)))	cabr_G_L2_ACCESS_IND (p_CellId , tsc_PhyCh0 , 1 , ? , ? , cr_ChanReqOtherProc)		Receive CHANNEL
2		G_L2 ! G_L2_UNITDATA_REQ	cas_G_L2_UNITDATA_REQ (p_CellId , tsc_PhyCh0 , 3 , 15 , c_G_RFN_Omit , cs_ImmediateAssignment (tcv_G_CellConfigInfo.bCCH_Freq , tcv_G_CellConfigInfo.bcc , tcv_RR_RA , tcv_RR_RFN))		REQUEST for IMSI Detach second Assign a GSM Channel
3		G_L2 ? G_L2_L2Estab_IND	car_G_L2_L2Estab_IND (p_CellId , c_IMSI_DetachIndAny)		IMSI Detach Indication
4		+ts_G_ChannelRelease (p_CellId , tsc_PhyCh0)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GSM_SetChPowerLevel(p_CellId : CellId ; p_PhyChId : PhysicalChId ; p_txPow : TX_Power) Group : M_RAT_HO_GSM_Specific/ Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		G_CL1 ! G_CL1_ChangePowerLevel_REQ	c_G_CL1_ChangePowerLevel_REQ (p_CellId , p_PhyChId , p_txPow)		
2		G_CL1 ? G_CL1_ChangePowerLevel_CNF	c_G_CL1_ChangePowerLevel_CNF (p_CellId , p_PhyChId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_G_SetTmpCellConfigInfo (p_CellId : CellId) Group : M_RAT_HO_GSM_Specific/ Objective : To Set global variable tcv_G_CellConfigInfo to the table corresponding to given cell Default : SS_Def Comments : This Step helps the programmer when he/she needs to access cell information in a generic test Step. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellId = tsc_GSM_CellA]			
2		(tcv_G_CellConfigInfo := tcv_G_CellInfoA)			
3		[p_CellId = tsc_GSM_CellB]			
4		(tcv_G_CellConfigInfo := tcv_G_CellInfoB)			
5		[p_CellId = tsc_GSM_CellC]			
6		(tcv_G_CellConfigInfo := tcv_G_CellInfoC)			
7	ERR	[TRUE]		I	Fatal error
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_G_ChannelRelease (p_CellId : INTEGER; p_PhyId :PhysicalChId) Group : IdleUpdate/ Objective : Default : IntersystemDef Comments : removed optional G_L2_Release_IND – now handled in default behaviour Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_PhyId = tsc_PhyCh0]			
2		G_L2 ! G_L2_DATA_REQ	cas_G_L2_DATA_REQ (p_CellId, 0, p_PhyId, tcv_RR_ChannelType, tcv_RR_Subchannel, c_G_RFN_Omit , c_G_ChReleaseNormal)		Send Channel Release
3		[TRUE]			
4		G_L2 ! G_L2_DATA_REQ	cas_G_L2_DATA_REQ (p_CellId, 0, p_PhyId, tcv_RR_ChannelType2, tcv_RR_Subchannel2, c_G_RFN_Omit , c_G_ChReleaseNormal)		Send Channel Release
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CalculateActTime (p_CellId: INTEGER) Group : BasicM_General_Steps/ Objective : To calculate the activation time with the tti value corresponding to the actual SS configuration. Default : SS_Def Comments : The tti value passed as parameter to ts_CPHY_ActTime is equal to tti/10 (e.g. tti 40 -> 4) Based on 34.108 on SRB tti. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB)OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig =cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig =cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig =cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB)OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS)OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS_Init)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init)OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS_Init)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS_Init)]			An RRC connecti on is establish ed. Use DCCH on DL DPCH1
3		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 4)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
4		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn)]			No RRC connection is established Use CCCH configuration
5		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH1, 1)			
6		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			One RRC connection established on FACH
7		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH1, 1)			
8		[(tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn)]			One RRC connection established on FACH BMC
9		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH1, 1)			
10		[(tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)]			
11		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 2)			
12		[(tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH)]			
13		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 4)			
14		[(tcv_TmpCellInfo.cellConfig = cell_NotConfigured)]		I	
15		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CountConfiguredCell Group : BasicM_General_Steps/ Objective : Assign tcv_NumCfgCell to the number of cells already configured. Default : SS_Def Comments : When a cell is configured, the corresponding receod.cellConfig is set to a different value than cell_NotConfigured Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_NumCfgCell := 0)			
2		+ It_CheckOneCell (tcv_CellInfoA)			
3		+ It_CheckOneCell (tcv_CellInfoB)			
4		+ It_CheckOneCell (tcv_CellInfoC)			
5		+ It_CheckOneCell (tcv_CellInfoD)			
6		+ It_CheckOneCell (tcv_CellInfoE)			
7		+ It_CheckOneCell (tcv_CellInfoF)			
8		+ It_CheckOneCell (tcv_CellInfoG)			
9		+ It_CheckOneCell (tcv_CellInfoH)			
		It_CheckOneCell (p_CellInfo : CellInfoCfg)			
10		[p_CellInfo.cellConfig <> cell_NotConfigured]			
11		(tcv_NumCfgCell := tcv_NumCfgCell + 1)			
12		[p_CellInfo.cellConfig = cell_NotConfigured]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitVariables Group : BasicM_General_Steps/ Objective : Initialisation of the test case variables tcv_CellInfoX, tcv_SF_Pilot and tcv_SF512. Default : SS_Def Comments : tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE and tcv_CellInfoF : contains the cell information used to configure SS. tcv_SF_Pilot and tcv_SF512 are assigned based on the capability of the UE. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ It_CalculateFrequencyInfo			
2		+It_Init_SSInfo_CellA			
3		+It_Init_SSInfo_CellB			
4		+It_Init_SSInfo_CellC			
5		+It_Init_SSInfo_CellD			
6		+It_Init_SSInfo_CellE			
7		+It_Init_SSInfo_CellF			
8		+It_Init_SSInfo_CellG			
9		+It_Init_SSInfo_CellH			
		It_CalculateFrequencyInfo			
10		+ It_CalculateFreqMid			
11		+ It_CalculateFreqHigh			
12		+ It_CalculateFreqLow			
		It_CalculateFreqMid			
13		+ It_CheckFreqSeperation(px_UARFCN_D_Mid, px_UARFCN_U_Mid)			
14		[NOT tcv_Res]			
15		(tcv_FreqInfoMid := c_FreqInfo (px_UARFCN_U_Mid, px_UARFCN_D_Mid))			
16		[tcv_Res]			
17		(tcv_FreqInfoMid := c_FreqInfo (OMIT, px_UARFCN_D_Mid))			Uplink UARFCN is OMITTED when the distance of 190 MHz is used (distance of 950 in UARFCN)
		It_CalculateFreqHigh			
18		+ It_CheckFreqSeperation(px_UARFCN_D_High, px_UARFCN_U_High)			
19		[NOT tcv_Res]			
20		(tcv_FreqInfoHigh := c_FreqInfo (px_UARFCN_U_High, px_UARFCN_D_High))			
21		[tcv_Res]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		(tcv_FreqInfoHigh := c_FreqInfo (OMIT, px_UARFCN_D_High))			Uplink UARFC N is OMITTE D when the distance of 190 MHz is used (distanc e of 950 in UARFC N)
23		It_CalculateFreqLow + It_CheckFreqSeperation(px_UARFCN_D_Low, px_UARFCN_U_Low)			
24		[NOT tcv_Res]			
25		(tcv_FreqInfoLow := c_FreqInfo (px_UARFCN_U_Low, px_UARFCN_D_Low))			
26		[tcv_Res]			
27		(tcv_FreqInfoLow := c_FreqInfo (OMIT, px_UARFCN_D_Low))			Uplink UARFC N is OMITTE D when the distance of 190 MHz is used (distanc e of 950 in UARFC N)
28		It_CheckFreqSeperation(p_UARFCN_D, p_UARFCN_U:INTEGER) [px_FDD_OperationBand = 1]			Operatio n Band 1 under test
29		[((p_UARFCN_D - p_UARFCN_U) = 950)]			Default seperati on
30		(tcv_Res := TRUE)			
31		[TRUE]			Non default seperati on
32		(tcv_Res := FALSE)			
33		[px_FDD_OperationBand = 2]			Operatio n Band 2 under test

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		[((p_UARFCN_D - p_UARFCN_U) = 400)]			Default separation
35		(tcv_Res := TRUE)			
36		[TRUE]			Non default separation
37		(tcv_Res := FALSE)			
38		[px_FDD_OperationBand = 3]			Operation Band 3 under test
39		[((p_UARFCN_D - p_UARFCN_U) = 475)]			Default separation
40		(tcv_Res := TRUE)			
41		[TRUE]			Non default separation
42		(tcv_Res := FALSE)			
43		[(px_FDD_OperationBand = 5) OR (px_FDD_OperationBand = 6)]			Operation Band 5 Or 6 under test
44		[((p_UARFCN_D - p_UARFCN_U) = 225)]			Default separation
45		(tcv_Res := TRUE)			
46		[TRUE]			Non default separation
47		(tcv_Res := FALSE)			
48		[TRUE]		I	
49		It_Init_SSInfo_CellA (tcv_CellInfoA := c_CellInfoDef (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, px_TCellA, tsc_SFN_OffsetA, tcv_FreqInfoMid , px_UL_ScramblingCode))			1.
50		It_Init_SSInfo_CellB (tcv_CellInfoB := c_CellInfoDef (tsc_CellB, ((px_PriScrmCode + 50) MOD 512) , tsc_URA_IdCellB, px_TCellB, tsc_SFN_OffsetB, tcv_FreqInfoMid , ((px_UL_ScramblingCode +1000) MOD 16777216))) It_Init_SSInfo_CellC			2.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51		(tcv_CellInfoC := c_CellInfoDef (tsc_CellC, ((px_PriScrmCode + 100) MOD 512), tsc_URA_IdCellC, px_TCellC, tsc_SFN_OffsetC, tcv_FreqInfoMid , ((px_UL_ScramblingCode +2000) MOD 16777216)))			3.
52		It_Init_SSInfo_CellD (tcv_CellInfoD := c_CellInfoDef (tsc_CellD, ((px_PriScrmCode + 150) MOD 512), tsc_URA_IdCellD, px_TCellD, tsc_SFN_OffsetD, tcv_FreqInfoHigh , ((px_UL_ScramblingCode +3000) MOD 16777216)))			4.
53		It_Init_SSInfo_CellE (tcv_CellInfoE := c_CellInfoDef (tsc_CellE, ((px_PriScrmCode + 200) MOD 512), tsc_URA_IdCellE, px_TCellE, tsc_SFN_OffsetE, tcv_FreqInfoHigh , ((px_UL_ScramblingCode +4000) MOD 16777216)))			5.
54		It_Init_SSInfo_CellF (tcv_CellInfoF := c_CellInfoDef (tsc_CellF, ((px_PriScrmCode + 250) MOD 512), tsc_URA_IdCellF, px_TCellF, tsc_SFN_OffsetF, tcv_FreqInfoHigh , ((px_UL_ScramblingCode +5000) MOD 16777216)))			6.
55		It_Init_SSInfo_CellG (tcv_CellInfoG := c_CellInfoDef (tsc_CellG, ((px_PriScrmCode + 300) MOD 512), tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG, tcv_FreqInfoMid , ((px_UL_ScramblingCode +6000) MOD 16777216)))			
56		It_Init_SSInfo_CellH (tcv_CellInfoH := c_CellInfoDef (tsc_CellH, ((px_PriScrmCode + 350) MOD 512), tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, tcv_FreqInfoMid , ((px_UL_ScramblingCode +7000) MOD 16777216)))			.
Detailed Comments : 1. The primary scrambling code of cell A is equal to the pixon value 2. The primary scrambling code of cell B is equal to the pixon value + 50 3. The primary scrambling code of cell B is equal to the pixon value + 100 4. Cell A and D do not have the same frequency, the primary scrambling code of cell D is equal to the one of cell A 5. Cell B and E do not have the same frequency, the primary scrambling code of cell E is equal to the one of cell B 6. Cell C and F do not have the same frequency, the primary scrambling code of cell F is equal to the one of cell C					

Test Step Dynamic Behaviour					
Test Step Name : ts_NAS_Delay(p_Dly: INTEGER) Group : BasicM_General_Steps/ Objective : Realization of a Delay Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Dly(p_Dly)			
2		?TIMEOUT t_Dly			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_Delay (p_Dly: INTEGER) Group : BasicM_General_Steps/ Objective : Realization of a Delay Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Dly(p_Dly)			
2		?TIMEOUT t_Dly			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SaveCellInfo (p_CellId : INTEGER) Group : BasicM_General_Steps/ Objective : To save in the variable dedicated to the cell p_CellID, the value contained in tcv_TmpCellInfo. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellId = tsc_CellA]			
2		(tcv_CellInfoA := tcv_TmpCellInfo)			
3		[p_CellId = tsc_CellB]			
4		(tcv_CellInfoB:= tcv_TmpCellInfo)			
5		[p_CellId = tsc_CellC]			
6		(tcv_CellInfoC:= tcv_TmpCellInfo)			
7		[p_CellId = tsc_CellD]			
8		(tcv_CellInfoD:= tcv_TmpCellInfo)			
9		[p_CellId = tsc_CellE]			
10		(tcv_CellInfoE := tcv_TmpCellInfo)			
11		[p_CellId = tsc_CellF]			
12		(tcv_CellInfoF := tcv_TmpCellInfo)			
13		[p_CellId = tsc_CellG]			
14		(tcv_CellInfoG := tcv_TmpCellInfo)			
15		[p_CellId = tsc_CellH]			
16		(tcv_CellInfoH := tcv_TmpCellInfo)			
17		[TRUE]		I	program ming error
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SetAttenuationLevel (p_CellId: INTEGER; p_Attenuation : INTEGER) Group : BasicM_General_Steps/ Objective : Set attenuation level and also update SCellInfo of the corresponding cell. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellId = tsc_CellA]			
2		(tcv_CellInfoA.attenuationLevel := p_Attenuation)			
3		+It_SetAttLev			
4		[p_CellId = tsc_CellB]			
5		(tcv_CellInfoB.attenuationLevel := p_Attenuation)			
6		+It_SetAttLev			
7		[p_CellId = tsc_CellC]			
8		(tcv_CellInfoC.attenuationLevel := p_Attenuation)			
9		+It_SetAttLev			
10		[p_CellId = tsc_CellD]			
11		(tcv_CellInfoD.attenuationLevel := p_Attenuation)			
12		+It_SetAttLev			
13		[p_CellId = tsc_CellE]			
14		(tcv_CellInfoE.attenuationLevel := p_Attenuation)			
15		+It_SetAttLev			
16		[p_CellId = tsc_CellF]			
17		(tcv_CellInfoF.attenuationLevel := p_Attenuation)			
18		+It_SetAttLev			
19		[p_CellId = tsc_CellG]			
20		(tcv_CellInfoG.attenuationLevel := p_Attenuation)			
21		+It_SetAttLev			
22		[p_CellId = tsc_CellH]			
23		(tcv_CellInfoH.attenuationLevel := p_Attenuation)			
24		+It_SetAttLev			
25	ERR	[TRUE]		I	Fatal error
		It_SetAttLev			
26		CPHY!CPHY_Cell_TxPower_Modify_REQ	ca_CellTxPowerModiReq(p_ CellId, p_Attenuation)		
27		CPHY?CPHY_Cell_TxPower_Modify_CNF	ca_CellTxPowerModiCnf(p_ CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SetCellCfg (p_CellId : INTEGER ; p_CellConfig : RB_ConfigType) Group : BasicM_General_Steps/ Objective : To assign the field cellConfig of the cell given as parameter to the value 'p_CellConfig'. (tcv_CellInfo[p_CellId] := p_CellConfig) Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		(tcv_TmpCellInfo.cellConfig := p_CellConfig)			
3		+ ts_SaveCellInfo (p_CellId)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SetTmpCellInfo (p_CellId : INTEGER) Group : BasicM_General_Steps/ Objective : To Set global variable tcv_TmpCellInfo to the table corresponding to given cell Default : SS_Def Comments : This Step helps the programmer when he/she needs to access cell information in a generic test Step. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_CellId = tsc_CellA]			
2		(tcv_TmpCellInfo := tcv_CellInfoA)			
3		[p_CellId = tsc_CellB]			
4		(tcv_TmpCellInfo := tcv_CellInfoB)			
5		[p_CellId = tsc_CellC]			
6		(tcv_TmpCellInfo := tcv_CellInfoC)			
7		[p_CellId = tsc_CellD]			
8		(tcv_TmpCellInfo := tcv_CellInfoD)			
9		[p_CellId = tsc_CellE]			
10		(tcv_TmpCellInfo := tcv_CellInfoE)			
11		[p_CellId = tsc_CellF]			
12		(tcv_TmpCellInfo := tcv_CellInfoF)			
13		[p_CellId = tsc_CellG]			
14		(tcv_TmpCellInfo := tcv_CellInfoG)			
15		[p_CellId = tsc_CellH]			
16		(tcv_TmpCellInfo := tcv_CellInfoH)			
17	ERR	[TRUE]		I	Fatal error
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GMM_Authentication (p_CellId : INTEGER) Group : BasicM_MM_GMM_Steps/ Objective : Generate authentication paramters and run the GMM Authentication procedure Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_GMM_AuthenticationInit			Compute all relevant authentication parameters.
2		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated , tsc_RB3, cs_AuthAndCiphReq (c_GMM_AuthRAND(tcv_AuthRAND), c_GMM_KeySeq_tv(tcv_PS_KeySeq), c_GMM_AuthAUTN(tcv_AuthAUTN)))		AUTHENTICATION AND CIPHERING REQUEST using relevant PS keys computed before.
3		Dc ? RRC_DataInd (tcv_TmpAuthAndCiphRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_TmpAuthAndCiphRspPDU.authRsp.value, tcv_AuthRspExt := tcv_TmpAuthAndCiphRspPDU.authRspExt)	car_PS_UplinkDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_AuthAndCiphRsp (c_AuthRspAny_tv,c_AuthCiphRspExtAny))		AUTHENTICATION AND CIPHERING RESPONSE including both Authentication Response parameters (RES and RESext)
4		(tcv_Res := o_AuthRspChk(tcv_AuthRsp, tcv_AuthRspExt, tcv_AuthK, tcv_AuthRAND, TRUE))			Verify that the received Authentication Response parameters match expected response.
5	TSF1	[tcv_Res = FALSE]		(F)	

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Test Step Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
6	TSP1	[tcv_Res = TRUE]		(P)	AUTHE NTICATI ON AND CIPHER ING RESPO NSE including only one Authenti cation Respons e paramter s (RES)	
7		Dc ? RRC_DataInd (tcv_TmpAuthAndCiphRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_TmpAuthAndCiphRspPDU.authRsp.value)	car_PS_UplinkDirectTransfe r (tsc_CellDedicated , tsc_RB3, cr_AuthAndCiphRsp (c_AuthRspAny_tv, -))			
8		(tcv_Res := o_AuthRspChk(tcv_AuthRsp, -, tcv_AuthK, tcv_AuthRAND, FALSE))				
9	TSF2	[tcv_Res = FALSE]		(F)		
10	TSP2	[tcv_Res = TRUE]		(P)	AUTHE NTICATI ON AND CIPHER ING Failure, then stop executio n by assignin g INCON CLUSIV E verdict as this might be a USIM issue.	
11		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfe r (tsc_CellDedicated , tsc_RB3, cr_AuthAndCiphFailureAny)			I
Detailed Comments : See 3GPP 24.008 / 4.7, 3GPP 33.102 / 6.3 and 3GPP 34.108 / 8 (for the computation of authentication paramters for Test USIM) See also the detailed description in test Step ts_MM_Authentication, on which this test Step is based.						

Test Step Dynamic Behaviour					
Test Step Name : ts_GMM_AuthenticationInit Group : BasicM_MM_GMM_Steps/ Objective : Computation of variables related to the Authentication and Key Agreement procedure for PS domain Default : NAS_OtherwiseFail Comments : Based on TS 34.108 cl. 8.1.2 and TS 33.102 cl.s 6.3 and 6.8.1.2 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+It_IncrementCiphKeySeqNum			1. Calculati on of AUTN needed for Authenti cation Request 2. Calculati on of other authenti cation informati on needed (IK, CK, XRES) 3. Calculati on of Kc GSM, using IK and CK
2		+It_AuthCalcAUTN			
3		+It_AuthCalcUMTS_Others			
4		+It_AuthCalcKcGSM			
5		It_IncrementCiphKeySeqNum			
6		[tcv_PS_KeySeq = '000'B]			
7		(tcv_PS_KeySeq := '001'B)			
8		[tcv_PS_KeySeq = '001'B]			
9		(tcv_PS_KeySeq := '010'B)			
10		[tcv_PS_KeySeq = '010'B]			
11		(tcv_PS_KeySeq := '011'B)			
12		[tcv_PS_KeySeq = '011'B]			
13		(tcv_PS_KeySeq := '100'B)			
14		[tcv_PS_KeySeq = '100'B]			
15		(tcv_PS_KeySeq := '101'B)			
16		[tcv_PS_KeySeq = '101'B]			
17		(tcv_PS_KeySeq := '110'B)			
18		[TRUE]			
		(tcv_PS_KeySeq := '000'B)			
		It_AuthCalcAUTN			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		(tcv_AuthXDOUT := o_BitstringXOR(tcv_AuthRAND, tcv_AuthK, 128))			XDOUT := RAND XOR K
20		(tcv_AuthCDOUT := o_BitstringConcat(tsv_AuthSQN, tcv_AuthAMF, 48, 16))			CDOUT := SQN || AMF
21		(tcv_AuthXDOUT_Half := o_BitstringXtract(tcv_AuthXDOUT, 128, 64, 0))			XDOUT _half := 64 bits of XDOUT starting from offset 0
22		(tcv_AuthAK := o_BitstringXtract(tcv_AuthXDOUT, 128, 48, 24))			AK := 48 bits of XDOUT starting from offset 24
23		(tcv_AuthAUTN_1 := o_BitstringXOR(tsv_AuthSQN, tcv_AuthAK, 48))			AUTN1 := SQN XOR AK
24		(tcv_AuthMAC := o_BitstringXOR(tcv_AuthXDOUT_Half, tcv_AuthCDOUT, 64))			MAC := XDOUT _half XOR CDOUT
25		(tcv_AuthAUTN_2 := o_BitstringConcat(tcv_AuthAMF, tcv_AuthMAC, 16, 64))			AUTN2 := AMF || MAC
26		(tcv_AuthAUTN := o_BitstringConcat(tcv_AuthAUTN_1, tcv_AuthAUTN_2, 48, 80))			AUTN := AUTN1 || AUTN2
27		It_AuthCalcUMTS_Others (tcv_PS_AuthIK := o_BitstringXtract(tcv_AuthXDOUT, 128, 128, 16))			IK := 128 bits of XDOUT starting from offset 16 (wrappin g)

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28		(tcv_PS_AuthCK := o_BitstringXtract(tcv_AuthXDOUT, 128, 128, 8))			CK := 128 bits of XDOUT starting from offset 8 (wrapping)
29		(tcv_AuthXRES := o_BitstringXtract(tcv_AuthXDOUT, 128, (tcv_AuthN + 1), 0))			XRES := (n+1) bits of XDOUT starting from offset 0
30		lt_AuthCalcKcGSM (tcv_AuthCK_1 := o_BitstringXtract(tcv_PS_AuthCK, 128, 64, 0))			CK1 := 64 bits of CK starting from offset 0
31		(tcv_AuthCK_2 := o_BitstringXtract(tcv_PS_AuthCK, 128, 64, 64))			CK2 := 64 bits of CK starting from offset 64
32		(tcv_AuthIK_1 := o_BitstringXtract(tcv_PS_AuthIK, 128, 64, 0))			IK1 := 64 bits of IK starting from offset 0
33		(tcv_AuthIK_2 := o_BitstringXtract(tcv_PS_AuthIK, 128, 64, 64))			IK2 := 64 bits of IK starting from offset 64
34		(tcv_AuthCK_XOR := o_BitstringXOR(tcv_AuthCK_1, tcv_AuthCK_2, 64))			CK_XOR := CK1 XOR CK2
35		(tcv_AuthIK_XOR := o_BitstringXOR(tcv_AuthIK_1, tcv_AuthIK_2, 64))			IK_XOR := IK1 XOR IK2

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		(tcv_AuthKcGSM := o_BitstringXOR(tcv_AuthCK_XOR, tcv_AuthIK_XOR, 64))			KcGSM := CK_XO R XOR IK_XOR (= CK1 XOR CK2 XOR IK1 XOR IK2)
Detailed Comments : (see ts_MM_AuthenticationInit)					

Test Step Dynamic Behaviour							
Test Step Name : ts_MM_Authentication (p_CellId: INTEGER)							
Group : BasicM_MM_GMM_Steps/							
Objective : Normal authentication							
Default : NAS_OtherwiseFail							
Comments : To be used after the synchronization of the authentication in both SS and UE has been achieved.							
Description :							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
1	TSF1	+ts_MM_AuthenticationInit	ca_DataReq (tsc_CellDedicated, tsc_RB3, c_AuthReq (tcv_CS_KeySeq, tcv_AuthRAND, c_AUTN(tcv_AuthAUTN)))	(F)	1. Authentication Request		
2		Dc!RRC_DataReq					
3		Dc?RRC_DataInd (tcv_AuthRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_AuthRspPDU.authRsp, tcv_AuthRspExt := tcv_AuthRspPDU.authRspExt)				car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_AuthRspAnyExt)	Authentication Response with extension
4		(tcv_Res := o_AuthRspChk (tcv_AuthRsp, tcv_AuthRspExt, tcv_AuthK, tcv_AuthRAND, TRUE))					
5		[tcv_Res = FALSE]					
6		[tcv_Res = TRUE]					
7		Dc?RRC_DataInd (tcv_AuthRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_AuthRspPDU.authRsp)			car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_AuthRspAnyNoExt )			Authentication Response without extension
8		(tcv_Res := o_AuthRspChk (tcv_AuthRsp, tcv_AuthRspExt, tcv_AuthK, tcv_AuthRAND, FALSE))					
9		[tcv_Res = FALSE]				(F)	
10		[tcv_Res = TRUE]					
11		TSF3					Dc?RRC_DataInd		(F)	2.
		car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_AuthFailAny)					
Detailed Comments : Normal authentication to be used after the synchronization between SS and UE has been performed successfully. 1. Authentication request is sent by the network. Key Sequence and RAND as provided by the corresponding variables tcv_KeySeq and tcv_AuthRAND. 2. If the UE generates a response, this response may consist of 2 parts which have to be extracted from the received message. 3. The response is checked against an expected response calculated using a test suite operation. 4. If the comparison of expected and calculated response is not ok, then authentication fails. 5. Otherwise authentication is granted. 6. If the UE sends an Authentication Failure the authentication fails. Steps:							

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Test Step Dynamic Behaviour	
Detailed Comments : ...	1. Initialization of the authentication variables (see 34.108 cl. 8.1.2)
	2. Authentication Failure: should not happen because the synchronization has been done already

Test Step Dynamic Behaviour					
Test Step Name : ts_MM_AuthenticationInit Group : BasicM_MM_GMM_Steps/ Objective : Initialization of variables related to authentication. Default : NAS_OtherwiseFail Comments : Based on TS 34.108 cl. 8.1.2 and TS 33.102 cl.s 6.3 and 6.8.1.2 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+It_IncrementCiphKeySeqNum			
2		+It_AuthCalcAUTN			1. Calculati on of AUTN needed for Authenti cation Request
3		+It_AuthCalcUMTS_Others			2. Calculati on of other authenti cation informati on needed (IK, CK, XRES)
4		+It_AuthCalcKcGSM			3. Calculati on of Kc GSM, using IK and CK
5		It_IncrementCiphKeySeqNum			
6		[tcv_CS_KeySeq = '000'B]			
7		(tcv_CS_KeySeq := '001'B)			
8		[tcv_CS_KeySeq = '001'B]			
9		(tcv_CS_KeySeq := '010'B)			
10		[tcv_CS_KeySeq = '010'B]			
11		(tcv_CS_KeySeq := '011'B)			
12		[tcv_CS_KeySeq = '011'B]			
13		(tcv_CS_KeySeq := '100'B)			
14		[tcv_CS_KeySeq = '100'B]			
15		(tcv_CS_KeySeq := '101'B)			
16		[tcv_CS_KeySeq = '101'B]			
17		(tcv_CS_KeySeq := '110'B)			
18		[TRUE]			
19		(tcv_CS_KeySeq := '000'B)			
		It_AuthCalcAUTN			
		(tcv_AuthXDOUT := o_BitstringXOR(tcv_AuthRAND, tcv_AuthK, 128))			XDOUT := RAND XOR K

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		(tcv_AuthCDOU := o_BitstringConcat(tsv_AuthSQN, tcv_AuthAMF, 48, 16))			CDOU := SQN || AMF
21		(tcv_AuthXDOUT_Half := o_BitstringXtract(tcv_AuthXDOUT, 128, 64, 0))			XDOUT _half := 64 bits of XDOUT starting from offset 0
22		(tcv_AuthAK := o_BitstringXtract(tcv_AuthXDOUT, 128, 48, 24))			AK := 48 bits of XDOUT starting from offset 24
23		(tcv_AuthAUTN_1 := o_BitstringXOR(tsv_AuthSQN, tcv_AuthAK, 48))			AUTN1 := SQN XOR AK
24		(tcv_AuthMAC := o_BitstringXOR(tcv_AuthXDOUT_Half, tcv_AuthCDOU, 64))			MAC := XDOUT _half XOR CDOU
25		(tcv_AuthAUTN_2 := o_BitstringConcat(tcv_AuthAMF, tcv_AuthMAC, 16, 64))			AUTN2 := AMF || MAC
26		(tcv_AuthAUTN := o_BitstringConcat(tcv_AuthAUTN_1, tcv_AuthAUTN_2, 48, 80))			AUTN := AUTN1 || AUTN2
27		It_AuthCalcUMTS_Others (tcv_AuthIK := o_BitstringXtract(tcv_AuthXDOUT, 128, 128, 16))			IK := 128 bits of XDOUT starting from offset 16 (wrappin g)

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28		(tcv_AuthCK := o_BitstringXtract(tcv_AuthXDOUT, 128, 128, 8))			CK := 128 bits of XDOUT starting from offset 8 (wrapping)
29		(tcv_AuthXRES := o_BitstringXtract(tcv_AuthXDOUT, 128, (tcv_AuthN + 1), 0))			XRES := (n+1) bits of XDOUT starting from offset 0
30		lt_AuthCalcKcGSM (tcv_AuthCK_1 := o_BitstringXtract(tcv_AuthCK, 128, 64, 0))			CK1 := 64 bits of CK starting from offset 0
31		(tcv_AuthCK_2 := o_BitstringXtract(tcv_AuthCK, 128, 64, 64))			CK2 := 64 bits of CK starting from offset 64
32		(tcv_AuthIK_1 := o_BitstringXtract(tcv_AuthIK, 128, 64, 0))			IK1 := 64 bits of IK starting from offset 0
33		(tcv_AuthIK_2 := o_BitstringXtract(tcv_AuthIK, 128, 64, 64))			IK2 := 64 bits of IK starting from offset 64
34		(tcv_AuthCK_XOR := o_BitstringXOR(tcv_AuthCK_1, tcv_AuthCK_2, 64))			CK_XOR := CK1 XOR CK2
35		(tcv_AuthIK_XOR := o_BitstringXOR(tcv_AuthIK_1, tcv_AuthIK_2, 64))			IK_XOR := IK1 XOR IK2

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		(tcv_AuthKcGSM := o_BitstringXOR(tcv_AuthCK_XOR, tcv_AuthIK_XOR, 64))			KcGSM := CK_XO R XOR IK_XOR (= CK1 XOR CK2 XOR IK1 XOR IK2)
Detailed Comments : Initialization of the variables needed for authentication. The calculation is done according to the prescription of TS 34.108 cl. 8.1.2. and TS 33.102 cl. 6.8.1.2 The AUTN calculated is used as parameter of the Authentication Request. CK, IK and Kc GSM are used by RRC. XRES is used to check the RES contained in Authentication Response.					

Test Step Dynamic Behaviour					
Test Step Name : ts_MM_PwrOrUSIM_Off (p_USIM_Rmvd : BOOLEAN) Group : BasicM_MM_GMM_Steps/ Objective : Deactivation of the UE Default : NAS_OtherwiseFail Comments : Depending upon UE's properties (USIM removal, switching off or powering off) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(p_USIM_Rmvd) AND (pc_USIM_Rmv)]			SIM needs to be removed .
2		+ts_MMI_USIM_Remove			remove SIM card
3		[pc_SwitchOnOff]			
4		+ts_MMI_UE_SwitchOff			switch off the UE
5		[TRUE]			
6		+ts_MMI_UE_PwrOff			power off the UE
Detailed Comments : There are 2 types of deactivation required for testing: 1. USIM removal or switching off or removal of the power source 2. Switching off or removal of the power source Parameter p_USIM_Rmvd controls the variant to be applied: 1. tsc_USIM_NeedRmv(=TRUE): variant 1 is to be used, the USIM is to be removed if possible					

Test Step Dynamic Behaviour					
Test Step Name : ts_MM_PwrOrUSIM_On (p_USIM_Rmvd : BOOLEAN) Group : BasicM_MM_GMM_Steps/ Objective : Activation of the UE Default : NAS_OtherwiseFail Comments : Depending upon the UE's properties (USIM insertion, switching on or powering on) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(p_USIM_Rmvd) AND (pc_USIM_Rmv)]			USIM has been removed
2		+ts_MMI_USIM_Insert			insert USIM card
3		[pc_SwitchOnOff]			
4		+ts_MMI_UE_SwitchOn			switch on the UE
5		[(((NOT p_USIM_Rmvd) OR (NOT pc_USIM_Rmv)) AND (NOT pc_SwitchOnOff))]			
6		+ts_MMI_UE_PwrOn			power on the UE
Detailed Comments : There are 2 types of activation required for testing: 1. USIM insertion or switching on or restoration of the power source 2. Switching on or restoration of the power source Parameter p_USIM_Rmvd controls the variant to be applied: 1. tsc_USIM_NeedRmv(=TRUE): variant 1 is to be used, the USIM is to be inserted if possible This test Step is the counterpart to ts_MM_PwrOrUSIM_Off resp ts_MM_IMSI_Detach.					

Test Step Dynamic Behaviour					
Test Step Name : po_ConnectionAndSS_Rel (p_CellId : INTEGER) Group : BasicM_Postambles/ Objective : To release the existing RRC connection and release the channels that are configured in the SS. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[tcv_TmpCellInfo.cellConfig <> cell_NotConfigured]			
3		+ It_Send_RRC_ConnectionRelease			
4		+ ts_SS_Rel (p_CellId)			
5		[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]		I	0.
6		It_Send_RRC_ConnectionRelease [(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_No Conn)]			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
7		[TRUE]			4.
8		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2) O R (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCP CH_StandAlonePCH_PS_2a)]			1.
9		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H(tcv_CellIndInfo.dl_Integri tyCheckInfo, tcv_RRC_Ti, OMIT))		
10		AM?RLC_AM_DATA_IND	car_RRC_ConnRelCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_ConnRelCm pl (tcv_RRC_Ti))	(P)	
11		+ ts_RRC_Delay (tsc_DelayAfterRRC_ConnRel)			
12		[TRUE]			2.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		(tcv_N308 := 1, tcv_K := 1)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
14		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_N308))		
15		UM?RLC_UM_DATA_IND	car_RRC_ConnRelCmplUM(tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	
16		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			
17		It_RptRcvConnRel			UE sends RRC Connection Release Complete for N308 times
18	TSF2	START t_Dly			
19		? TIMEOUT t_Dly		(F)	
20	TSP2	(tcv_K := tcv_N308 + 1)			
20	TSP2	UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	To stop the loop Retransmission
Detailed Comments : 0. The cell has not been configured, it shall not be released 1. cell_FACH state 2. cell_DCH state 3. No RRC connection is established 4. An RRC connection is established					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnEst (p_CellId : INTEGER; p_MO_Reg : RegOr_MO; p_EstCause : EstablishmentCause) Group : BasicM_RRC_Steps/ Objective : The generic Step to establish RRC Connection and bring UE to CELL_FACH or CELL_DCH state. Default : RRC_DefConnEst Comments : In this Step , 5 Signalling Radio Bearers with 3.4kbps DL & UL is setup (RB#0, 1, 2, 3,4) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SS_PrepareCellRRC_ConnEst (p_CellId)			
2		+ ts_SetTmpCellInfo (p_CellId)			
3		+It_RcvConnReq			
4		+It_Send_ConnSetUp			
5		+ ts_RRC_ReceiveConnSetupCmpl (p_CellId)			
6		It_RcvConnReq			
7		[p_MO_Reg = est_Reg] TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_M message.message.rrcConnectionRequest.initialUE_Identity)	car_RRC_ConnReq (p_CellId, tsc_RB0, cbr_108_RRC_ConnReq (registration))		
8		[(p_MO_Reg = est_MO) OR (p_MO_Reg = est_MT)]			
9		TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_M message.message.rrcConnectionRequest.initialUE_Identity)	car_RRC_ConnReq (p_CellId, tsc_RB0, cbr_108_RRC_ConnReq (p_EstCause))		
10		It_Send_ConnSetUp [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_N			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		oConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)] UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13		+ ts_SetCellCfg (p_CellId, cell_FACH)			1.
14		[tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn]			
15		+ ts_SetCellCfg (p_CellId, cell_FACH_BMC)			1.
16		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn]			
17		+ ts_SetCellCfg (p_CellId, cell_FACH_2_PRACH)			1.
18		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn]			
19		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH)			1.
20		[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn]			
21		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH)			
22		[tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn]			
23		+ ts_SetCellCfg (p_CellId, cell_FACH_MAC_SRB)			
24		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn]			
25		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_No Conn]			
27		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg2)			
28		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_No Conn]			
29		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_CTCH)			
30		[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_N oConn]			
31		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a)			
32		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_ NoConn]			
33		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)			
34		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_ NoConn]			
35		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)			
36		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_ NoConn]			
37		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)			
38		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn)]			
39		UM!RLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetup DCH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCo de , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.uL_Scrambl ingCode))		
40		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
41		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB)			
42		[tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn]			
43		+ ts_SetCellCfg (p_CellId, cell_DCH_MAC_SRB)			
44	ERR	[TRUE]		I	2.
Detailed Comments : 1. Update the cell configuration 2. A RRC connection has already been established.					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveConnSetupCmpl (p_CellId : INTEGER) Group : BasicM_RRC_Steps/ Objective : To receive RRC CONNECTION SETUP COMPLETE message and download SS security keys according to the received information element. Default : RRC_DefConnEst,RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS)]			
3		START t_WaitMS			
4	TSF1	? TIMEOUT t_WaitMS		(F)	
5	TSP1	AM ? RLC_AM_DATA_IND (tcv_StartList := RLC_AM_DATA_IND.aM_message.uL_DCC H_Message.message.rrcConnectionSetupComplete.startList, tcv_CellIndInfo.cipheringAlgorithmCapability := RLC_AM_DATA_IND.aM_message.uL_DCC H_Message.message.rrcConnectionSetupComplete.ue_RadioAccessCapability.securityCapability.cipheringAlgorithmCap) CANCEL t_WaitMS	car_RRC_ConnSetupCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RRC_ConnSetupCmpl (tcv_RRC_Ti, ?))	(P)	UE capability ie is present in a DCH configuration
6		+ It_GetHFN			
7		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8		(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)] START t_WaitMS			
9	TSF2	? TIMEOUT t_WaitMS		(F)	
10	TSP2	AM ? RLC_AM_DATA_IND (tcv_StartList := RLC_AM_DATA_IND.aM_message.uL_DCC H_Message.message.rrcConnectionSetupCo mplete.startList) CANCEL t_WaitMS	car_RRC_ConnSetupCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RRC_ConnSetupCmpl (tcv_RRC_Ti, ?))	(P)	UE capability is not present in a FACH configuration
11		+ It_GetHFN			
12		[TRUE] It_GetHFN		I	
13		(tcv_Count := NUMBER_OF_ELEMENTS (tcv_StartList))			
14		[tcv_Count = 1]			
15		+ It_FirstValue			
16		[tcv_Count = 2]			
17		+ It_FirstValue			
18		+ It_SecondValue			
19	ERR1	[TRUE] It_FirstValue		F	
20		[tcv_StartList.[0].cn_DomainIdentity = tsc_CS_Domain]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21	ERR2	(tcv_CellIndInfo.start_CS := tcv_StartList[0].start_Value)		F	
22		[tcv_StartList[0].cn_DomainIdentity = tsc_PS_Domain]			
23		(tcv_CellIndInfo.start_PS := tcv_StartList[0].start_Value)			
24		[TRUE]			
25		It_SecondValue			
26		[tcv_StartList[1].cn_DomainIdentity = tsc_CS_Domain]			
27		(tcv_CellIndInfo.start_CS := tcv_StartList[1].start_Value)			
28		[tcv_StartList[1].cn_DomainIdentity = tsc_PS_Domain]			
29	ERR3	(tcv_CellIndInfo.start_PS := tcv_StartList[1].start_Value) [TRUE]		F	
Detailed Comments : 1. Download the START value to SS					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveRB_ReconfigCmpl (p_CellId : INTEGER)					
Group : BasicM_RRC_Steps/					
Objective : To receive RADIO BEARER RECONFIGURATION COMPLETE message and reconfigure SS according to the received information element values.					
Default : RRC_Def1					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSF1 TSP1	+ ts_SetTmpCellInfo (p_CellId)	car_RB_ReconfCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RB_ReconfCmpl (tcv_RRC_Ti, OMIT))	(F) (P)	
2		START t_WaitMS			
3		? TIMEOUT t_WaitMS			
4		AM ? RLC_AM_DATA_IND CANCEL t_WaitMS			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveRB_RelCmpl (p_CellId : INTEGER; p_RbType: RB_ConfigType) Group : BasicM_RRC_Steps/ Objective : To receive RADIO BEARER RELEASE COMPLETE message and reconfigure SS according to the received information element values. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3	TSF1	?TIMEOUT t_WaitMS		(F)	
4	TSP1	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_RB_RelCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RB_RelCmpl (tcv_RRC_Ti, *, *))	(P)	1.
Detailed Comments : 1. According to 25.331 March 2002, the field Count_C_ActivationTime may be present but from 25.331 June 2002 onward it shall be absent. For this reason the wildcard '*' is used					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveRB_SetupCmpl (p_CellId : INTEGER; p_RbType: RB_ConfigType) Group : BasicM_RRC_Steps/ Objective : To receive RADIO BEARER SETUP COMPLETE message and reconfigure SS according to the received information element values. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3		[(p_RbType = cell_DCH_Speech) OR (p_RbType = cell_DCH_64kCS_RAB_SRB) OR (p_RbType = cell_DCH_57_6kCS_RAB_SRB) OR (p_RbType = cell_Two_DTCH) OR (p_RbType = cell_Four_DTCH_CS) OR ((p_RbType = cell_Two_DTCH_PS_CS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_Four_DTCH_PS_CS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_DCH_DSCH_CS_PS) AND (tcv_CN_Domain = cs_domain))]			TM RAB
4		[(tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND(tcv_CellIndInfo.recentSecureDomain = cs_domain)]			
5		+ It_CipheringStartedTM_RAB			
6		[(tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND ((p_RbType = cell_DCH_Speech) OR (p_RbType = cell_DCH_64kCS_RAB_SRB))]			For RAB test cases
7		+ It_CipheringStartedTM_RAB			
8		[tcv_CellIndInfo.cs_cipheringStarted = FALSE]			
9		+ It_CipheringNotStartedTM_RAB			
10		[TRUE]			AM/UM RAB
11		[(tcv_CellIndInfo.ps_cipheringStarted = TRUE) AND(tcv_CellIndInfo.recentSecureDomain = ps_domain)]			
12		+ It_CipheringStartedAM_RAB			
13		[TRUE]			
14		+ It_CipheringNotStartedAM_RAB			
15		It_CipheringStartedTM_RAB + ts_CMACE_DownloadSecurityKey (tcv_AuthCK, OMIT, OMIT, tcv_CN_Domain, tcv_CellIndInfo.start_CS)			
16		+ ts_CMACE_UL_DL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_ActTime ,notInc)			
17	TSF1	? TIMEOUT t_WaitMS		(F)	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	TSP2	AM ?RLC_AM_DATA_IND (tcv_CipherActTime := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.radioBearerSetupComplete.c ount_C_ActivationTime, tcv_CellIndInfo.start_CS := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.radioBearerSetupComplete.st art_Value) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, *, OMIT))	(P)	A new start value is provided
19		+ts_CMAC_DownloadSecurityKey(tcv_Auth CK, OMIT, OMIT, tcv_CN_Domain, tcv_CellIndInfo.start_CS)			
20		+ ts_CMAC_UL_DL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_CipherActTime, incPerCFN_Cycle)			
		It_CipheringStartedAM_RAB			
21	TSF3	? TIMEOUT t_WaitMS		(F)	
22	TSP4	AM ?RLC_AM_DATA_IND (tcv_CellIndInfo.start_PS := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.start_V alue , tcv_CellIndInfo.uL_CipherMode := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.rb_UL_ CiphActivationTimeInfo) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, OMIT, *))	(P)	A new start value is provided
23		+ It_SS_CipheringAM_RAB_UL_DL (tcv_PS_AuthCK)			A RB UL cipher is not present
		It_CipheringNotStartedTM_RAB			
24	TSF5	? TIMEOUT t_WaitMS		(F)	
25	TSP5	AM ?RLC_AM_DATA_IND (tcv_CipherActTime := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.count_ C_ActivationTime, tcv_CellIndInfo.uL_CipherMode := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.rb_UL_ CiphActivationTimeInfo) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cr_RRC_RB_SetUpCmplNo StartVal (tcv_RRC_Ti, *,*))	(P)	No start value No RB UL cipher
26		+ ts_CMAC_DownloadSecurityKey (OMIT, OMIT, OMIT, tcv_CN_Domain, tcv_CellIndInfo.start_CS)			
27		+ ts_CMAC_UL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_CipherActTime, notInc)			
28	TSP6	AM ?RLC_AM_DATA_IND (tcv_CipherActTime := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.count_ C_ActivationTime, tcv_CellIndInfo.start_CS := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.start_V alue) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, *, OMIT))	(P)	A new start value is provided

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29		+ ts_CMAC_DownloadSecurityKey (OMIT, OMIT, OMIT, tcv_CN_Domain, tcv_CellIndInfo.start_CS)			
30		+ ts_CMAC_UL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_CipherActTime ,notInc)			
		lt_CipheringNotStartedAM_RAB			
31	TSF5	? TIMEOUT t_WaitMS		(F)	
32	TSP5	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cr_RRC_RB_SetUpCmplNo StartVal (tcv_RRC_Ti, OMIT,OMIT))	(P)	No start value No RB UL cipher
33		+ lt_SS_CipheringAM_RAB_UL_DL(OMIT)			
34	TSP6	AM ?RLC_AM_DATA_IND (tcv_CellIndInfo.start_PS := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.start_V alue) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, OMIT, OMIT))	(P)	A new start value is provided
35		+ lt_SS_CipheringAM_RAB_UL_DL (OMIT)			
		lt_SS_CipheringAM_RAB_UL_DL (p_KC : KeyCiphering)			
36		[(p_RbType = cell_DCH_64kPS_RAB_SRB) OR (p_RbType = cell_FACH_PS) OR (p_RbType = cell_Two_DTCH_CS_PS) OR (p_RbType = cell_Four_DTCH_CS_PS) OR (p_RbType = cell_PDCP_AM_RAB)OR (p_RbType= cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (p_RbType = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (p_RbType = cell_DCH_DSCH_PS) OR (p_RbType = cell_DCH_DSCH_CS_PS) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			
37		+ lt_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)			
38		(tcv_RLC_SeqNumDL_RB20 := 0)			
39		+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)			
40		+ ts_CRLC_UL_CipherCfg_RAB (ps_domain, cs_RB_ActTimeInfoList20 (0) ,notInc)			
41		[(p_RbType = cell_DCH_2AM_PS) OR (p_RbType =cell_DCH_2_PS_Call)]			
42		+ lt_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)			
43		(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB22 := 0)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)			
45		+ ts_CRLC_UL_CipherCfg_RAB (ps_domain,cs_RB_ActTimeInfoList20_22 (0, 0),notInc)			
46		[(p_RbType = cell_PDCP_AM_UM_RAB)]			
47		+ lt_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)			
48		(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB21 := 0)			
49		+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)			
50		+ ts_CRLC_UL_CipherCfg_RAB (ps_domain,cs_RB_ActTimeInfoList20_21 (0, 0),notInc)			
51		[(p_RbType = cell_PDCP_UM_RAB)]			
52		+ lt_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)			
53		(tcv_RLC_SeqNumDL_RB21 := 0)			
54		+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)			
55		+ ts_CRLC_UL_CipherCfg_RAB (ps_domain, cs_RB_ActTimeInfoList21 (0) ,notInc)			
56		[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType= cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]			
57		+ lt_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)			
58		(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB24 := 0)			
59		+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)			
60		+ ts_CRLC_UL_CipherCfg_RAB (ps_domain,cs_RB_ActTimeInfoList20_24 (0, 0),notInc)			
61		[TRUE]			
		lt_CRLC_SecurityConfig (p_Hfn_LT: HyperFrameNumber ; p_KC_LT: KeyCIPHERing)			for RLC do nothing

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62		CRLC ! CRLC_SecurityMode_Config_REQ	ca_CRLC_SecurityModeCfg Req (tsc_CellDedicated , tcv_CellIndInfo.recentSecur eDomain, p_Hfn_LT , p_KC_LT, OMIT, OMIT)		Downloa d security keys for RLC. CRLC is configur ed with cellId -1 (tsc_Cell Dedicate d)
63		CRLC ? CRLC_SecurityMode_Config_CNF	ca_CRLC_SecurityModeCfg Cnf (tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_GetRLC_SeqNumSecurity (p_CellId : INTEGER) Group : BasicM_Security_Steps/ Objective : To assign the variables to the current RLC sequence number of its corresponding SRB and RAB if configured. Default : SS_Def_Special Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB1)		
3		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB1 := CRLC_SequenceNumber_CNF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB1)		
4		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB2)		
5		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB2 := CRLC_SequenceNumber_CNF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB2)		
6		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB3)		
7		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB3 := CRLC_SequenceNumber_CNF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB3)		
8		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB4)		
9		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB4 := CRLC_SequenceNumber_CNF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB4)		
10		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR ((tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)) OR ((tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		_CTCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH _2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlon ePCH_2a)) AND(tcv_CellIndInfo. recentSecureDomain =ps_domain)] CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)		
12		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB20 := CRLC_SequenceNumber_CNF. count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)		
13		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB)AND(tcv_CellIndInfo. recentSecureDomain =ps_domain)]			
14		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB21)		
15		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB21 := CRLC_SequenceNumber_CNF. count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB21)		
16		[(tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) AND(tcv_CellIndInfo. recentSecureDomain =ps_domain)]			
17		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)		
18		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB20 := CRLC_SequenceNumber_CNF. count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)		
19		CRLC ! CRLC_SequenceNumber_RE Q	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB22)		
20		CRLC ? CRLC_SequenceNumber_C NF (tcv_RLC_SeqNumDL_RB22 := CRLC_SequenceNumber_C NF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB22)		
21		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB)AND(tcv_CellIndInfo. recentSecureDomain =ps_domain)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)		
23		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB20 := CRLC_SequenceNumber_CNF. count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)		
24		CRLC ! CRLC_SequenceNumber_RE Q	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB21)		
25		CRLC ? CRLC_SequenceNumber_C NF (tcv_RLC_SeqNumDL_RB21 := CRLC_SequenceNumber_C NF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB21)		
26		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitSystemSpecificCap Group : BasicM_Security_Steps/ Objective : If UE supports GSM, this step initialises tcv_UE_SystemSpecificCap based on PICS Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[pc_UMTS_GSM]			IF GSM is supported
2		(tcv_UE_SystemSpecificCap := 0)			
3		+lt_A57			
4		+lt_A56			
5		+lt_A55			
6		+lt_A54			
7		+lt_A53			
8		+lt_A52			
9		+lt_A51			
10		[TRUE]			IF GSM not Supported
11		(tcv_UE_SystemSpecificCap := 0)			
		lt_A57			
12		[pc_MS_ClsmkA5_7='1'B]			A5_7 Supported
13		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+64)			
14		[TRUE]			
		lt_A56			
15		[pc_MS_ClsmkA5_6='1'B]			A5_6 Supported
16		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+32)			
17		[TRUE]			
		lt_A55			
18		[pc_MS_ClsmkA5_5='1'B]			A5_5 Supported
19		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+16)			
20		[TRUE]			
		lt_A54			
21		[pc_MS_ClsmkA5_4='1'B]			A5_4 Supported
22		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+8)			
23		[TRUE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24		It_A53 [pc_MS_ClsmkA5_3='1'B]			A5_3 Support ed
25		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+4)			
26		[TRUE]			
27		It_A52 [pc_MS_ClsmkA5_2='1'B]			A5_2 Support ed
28		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+2)			
29		[TRUE]			
30		It_A51 [pc_MS_ClsmkA5_1='0'B]			A5_1 Support ed
31		(tcv_UE_SystemSpecificCap := tcv_UE_SystemSpecificCap+1)			
32		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAC_DownloadSecurityKey (p_KC : KeyCiphering; p_IK : IntegrityKey; p_GSM_ck : GSM_CipheringKey; p_CN_Domain : CN_DomainIdentity; p_HFN : B20) Group : BasicM_Security_Steps/ Objective : To download all security keys to CMAC. Only the keys/Parameters to be downloaded will be passed as parameters, rest will be omitted depending on the PICS. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_SecurityMode_Config_REQ	ca_CMAC_SecurityModeCf gReq (tsc_CellDedicated , p_CN_Domain, p_HFN , p_KC, p_IK, p_GSM_ck)		Downloa d security keys for MAC
2		CMAC ? CMAC_SecurityMode_Config_CNF	ca_CMAC_SecurityModeCf gCnf (tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAL_DL_CipherCfg (p_CipherMode: CipheringModeCommand; p_ActTime: INTEGER; p_IncrDcr : Increment_Mode)					
Group : BasicM_Security_Steps/					
Objective : Configure ciphering on the MAC layer for DL RBs. This step shall be called when required.					
Default : SS_Def					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_Ciphering_Activate_REQ	ca_CMAL_DL_CipherActReq (tsc_CellDedicated, tsc_DL_DPCH1, p_CipherMode, p_ActTime, p_IncrDcr)		start, restart or stop ciphering for TM RB
2		CMAC ? CMAC_Ciphering_Activate_CNF	ca_CMAL_CipherActCnf(tsc_CellDedicated, tsc_DL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAL_UL_CipherCfg (p_CipherMode: CipheringModeCommand; p_ActTime: INTEGER; p_IncrDcr : Increment_Mode)					
Group : BasicM_Security_Steps/					
Objective : Configure ciphering on the MAC layer for UL RBs.					
Default : SS_Def					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_Ciphering_Activate_REQ	ca_CMAL_UL_CipherActReq (tsc_CellDedicated, tsc_UL_DPCH1, p_CipherMode, p_ActTime , p_IncrDcr)		start, restart or stop ciphering
2		CMAC ? CMAC_Ciphering_Activate_CNF	ca_CMAL_CipherActCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_DL_CipherCfgRB (p_CipherMode: CipheringModeCommand; p_RbType : RB_ConfigType ;p_IncMode : RLC_IncMode) Group : BasicM_Security_Steps/ Objective : Configure ciphering for RLC layer for configured AM/UM RAB's Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(p_RbType = cell_DCH_64kPS_RAB_SRB) OR (p_RbType = cell_FACH_PS) OR (p_RbType = cell_Two_DTCH_CS_PS) OR (p_RbType = cell_Four_DTCH_CS_PS) OR (p_RbType = cell_PDCP_AM_RAB)OR (p_RbType = cell_PDCP_UM_RAB)OR (p_RbType= cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (p_RbType = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (p_RbType = cell_DCH_DSCH_PS) OR (p_RbType = cell_DCH_DSCH_CS_PS) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			
2		+ lt_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)			
3		[(p_RbType = cell_PDCP_UM_RAB)]			
4		+ lt_RLC_Activate (tsc_RB21, tcv_RLC_SeqNumDL_RB21)			
5		[(p_RbType = cell_PDCP_AM_UM_RAB)]			
6		+ lt_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)			
7		+ lt_RLC_Activate (tsc_RB21, tcv_RLC_SeqNumDL_RB21)			
8		[(p_RbType = cell_DCH_2AM_PS) OR (p_RbType = cell_DCH_2_PS_Call)]			
9		+ lt_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)			
10		+ lt_RLC_Activate (tsc_RB22, tcv_RLC_SeqNumDL_RB22)			
11		[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType= cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]			
12		+ lt_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)			
13		+ lt_RLC_Activate (tsc_RB24, tcv_RLC_SeqNumDL_RB24)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		[TRUE]			
15		It_RLC_Activate (p_rbld : INTEGER ; p_SeqNum : RLC_SequenceNumber) CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_DL_CipherActReq (tsc_CellDedicated , ps_domain , p_rbld , p_CipherMode, p_SeqNum , p_IncMode)		configure ciphering for signaling radio bearers
16		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_DL_CipherCfgSRB (p_CipherMode: CipheringModeCommand;p_IncMode : RLC_IncMode) Group : BasicM_Security_Steps/ Objective : Configure ciphering for RLC layer for RB1, RB2, RB3 and RB4 Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ It_RLC_Activate (tsc_RB1, tcv_RLC_SeqNumDL_RB1)			
2		+ It_RLC_Activate (tsc_RB2 , tcv_RLC_SeqNumDL_RB2+2)			
3		+ It_RLC_Activate (tsc_RB3 , tcv_RLC_SeqNumDL_RB3)			
4		+ It_RLC_Activate (tsc_RB4 , tcv_RLC_SeqNumDL_RB4)			
5		It_RLC_Activate (p_rb : INTEGER ; p_RLC_Seq : RLC_SequenceNumber) CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_DL_CipherActReq (tsc_CellDedicated , tcv_CellIndInfo. recentSecureDomain, p_rb, p_CipherMode, p_RLC_Seq, p_IncMode)		configure ciphering for signaling radio bearers
6		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_DL_Integrity (p_IntegrityProtectionModelInfo : IntegrityProtectionModelInfo) Group : BasicM_Security_Steps/ Objective : To start the integrity protection Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Integrity_Activate_REQ	ca_CRLC_DL_IntegrityActivateReq (tsc_CellDedicated , tcv_CellIndInfo. recentSecureDomain, p_IntegrityProtectionModelInfo)		
2		CRLC ?CRLC_Integrity_Activate_CNF	ca_CRLC_IntegrityActivateCnf (tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_UL_CipherCfg (p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList ;p_IncMode : RLC_IncMode) Group : BasicM_Security_Steps/ Objective : Configure ciphering for RLC layer Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tsc_CellDedicated , tcv_CellIndInfo. recentSecureDomain, p_RB_ActivationTimeInfoList ,p_IncMode)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_UL_CipherCfg_RAB (p_CN_Domain : CN_DomainIdentity; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList ;p_IncMode : RLC_IncMode) Group : BasicM_Security_Steps/ Objective : Configure ciphering for RLC layer Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList ,p_IncMode)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_UL_Integrity (p_IntegrityProtActivationInfo : IntegrityProtActivationInfo) Group : BasicM_Security_Steps/ Objective : To start the integrity protection Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Integrity_Activate_REQ	ca_CRLC_UL_IntegrityActivateReq (tsc_CellDedicated , tcv_CellIndInfo, recentSecureDomain, c_RestRB_IntegrityProtActivationInfoList(p_IntegrityProtActivationInfo.rrc_MessageSequenceNumberList.[0], p_IntegrityProtActivationInfo.rrc_MessageSequenceNumberList.[1], p_IntegrityProtActivationInfo.rrc_MessageSequenceNumberList.[3], p_IntegrityProtActivationInfo.rrc_MessageSequenceNumberList.[4]))		
2		CRLC ?CRLC_Integrity_Activate_CNF	ca_CRLC_IntegrityActivateCnf (tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ResetSecurityKey Group : BasicM_Security_Steps/ Objective : To download all security keys to CMAC (for DCH cell configurations only) and CRLC. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_CellIndInfo:=c_CellIndInfoDef)			
2		[pc_UEA1_Supp]			
3		(tcv_CellIndInfo.cipheringAlgorithmCapability := '0000000000000001'B)			
4		[NOT (pc_UEA1_Supp)]			
5		(tcv_CellIndInfo.cipheringAlgorithmCapability := '0000000000000001'B)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_SecurityDownloadStart (p_domain : CN_DomainIdentity ; p_StartValue : B20) Group : BasicM_Security_Steps/ Objective : To download a new START value In the cell Independent Record Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_domain = cs_domain]			
2		(tcv_CellIndInfo.start_CS := p_StartValue)			
3		[p_domain = ps_domain]			
4		(tcv_CellIndInfo.start_PS := p_StartValue)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SetDL_RRC_MessageSN (p_ActCell : INTEGER) Group : BasicM_Security_Steps/ Objective : To Set the Message sequence number in DL to all 0 for RB0 to RB4 Default : SS_Def Comments : This step to be used when Integrity is to be started Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MS N_REQ (p_ActCell, tsc_RB0, 0)		
2		CRLC ?CRLC_SetRRC_MessageSN_CNF	ca_CRLC_SetRRC_MSN_C NF (p_ActCell, tsc_RB0)		
3		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MS N_REQ(tsc_CellDedicated, tsc_RB1, 0)		
4		CRLC ?CRLC_SetRRC_MessageSN_CNF	ca_CRLC_SetRRC_MSN_C NF (tsc_CellDedicated, tsc_RB1)		
5		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MS N_REQ(tsc_CellDedicated, tsc_RB2, 0)		
6		CRLC ?CRLC_SetRRC_MessageSN_CNF	ca_CRLC_SetRRC_MSN_C NF (tsc_CellDedicated, tsc_RB2)		
7		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MS N_REQ(tsc_CellDedicated, tsc_RB3, 0)		
8		CRLC ?CRLC_SetRRC_MessageSN_CNF	ca_CRLC_SetRRC_MSN_C NF (tsc_CellDedicated, tsc_RB3)		
9		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MS N_REQ(tsc_CellDedicated, tsc_RB4, 0)		
10		CRLC ?CRLC_SetRRC_MessageSN_CN F	ca_CRLC_SetRRC_MSN_C NF (tsc_CellDedicated, tsc_RB4)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RB2_UL_IntegrityActivate(p_RRC SN : RRC_MessageSequenceNumber) Group : BasicM_Security_Steps/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Integrity_Activate_REQ	ca_CRLC_UL_IntegrityActivateReq (tsc_CellDedicated , tcv_CellIndInfo.recentSecureDomain, c_RB2_IntegrityProtActivationInfoList(p_RRC SN))		
2		CRLC ?CRLC_Integrity_Activate_CNF	ca_CRLC_IntegrityActivateCnf (tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAC_CipherCfg (p_CellId : INTEGER;p_CalcNewActTime : BOOLEAN; p_CipherMode: CipheringModeCommand; p_IncrDcr : Increment_Mode) Group : BasicM_Security_Steps/ Objective : To Configure the MAC Layer with the Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[((tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig =cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)) AND(tcv_CellInfo.recentSecureDomain =cs_domain)]			
3		+It_CalcActivationTime			
4		+ts_CMAC_DL_CipherCfg (p_CipherMode, tcv_CipherActTime, p_IncrDcr)			
5		+ts_CMAC_UL_CipherCfg (p_CipherMode, tcv_CipherActTime, p_IncrDcr)			
6		[TRUE]		(P)	No TM RAB configured
		It_CalcActivationTime			
7		[p_CalcNewActTime = TRUE]			
8		CPHY ! CPHY_Frame_Number_REQ	cas_GetFrameNum(p_CellId, tsc_DL_DPCH1)		
9		CPHY ? CPHY_Frame_Number_CNF (tcv_FrameNumber := CPHY_Frame_Number_CNF.frameNumber)	car_GetFrameNum(p_CellId, tsc_DL_DPCH1)		
10		(tcv_CipherActTime := (256 + tcv_FrameNumber- (tcv_FrameNumber MOD 8 +8)) MOD 256)			Calculate the Ciphering Activation Time
11		[p_CalcNewActTime = FALSE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GetRRC_MessageSN(p_CellId : INTEGER) Group : BasicM_Security_Steps/ Objective : To Calculate the Message sequence numbers for RB0 to RB4 and store in TCV's. Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC !CRLC_RRC_MessageSN_REQ	cas_CRLC_RRC_MessageS N_REQ (tsc_CellDedicated, tsc_RB0)		
2		CRLC ? CRLC_RRC_MessageSN_CNF (tcv_RRC_MSN_RB0 := CRLC_RRC_MessageSN_CNF.count_I_LSB_D L)	car_CRLC_RRC_MessageS N_CNF (tsc_CellDedicated, tsc_RB0)		
3		CRLC !CRLC_RRC_MessageSN_REQ	cas_CRLC_RRC_MessageS N_REQ (tsc_CellDedicated, tsc_RB1)		
4		CRLC ? CRLC_RRC_MessageSN_CNF (tcv_RRC_MSN_RB1 := CRLC_RRC_MessageSN_CNF.count_I_LSB _DL)	car_CRLC_RRC_MessageS N_CNF (tsc_CellDedicated, tsc_RB1)		
5		CRLC ! CRLC_RRC_MessageSN_REQ	cas_CRLC_RRC_MessageS N_REQ (tsc_CellDedicated, tsc_RB2)		
6		CRLC ? CRLC_RRC_MessageSN_CNF (tcv_RRC_MSN_RB2 := CRLC_RRC_MessageSN_CNF.count_I_L SB_DL, tcv_RRC_MSN_RB2_UL := CRLC_RRC_MessageSN_CNF.count_I_L SB_UL)	car_CRLC_RRC_MessageS N_CNF (tsc_CellDedicated, tsc_RB2)		
7		CRLC ! CRLC_RRC_MessageSN_REQ	cas_CRLC_RRC_MessageS N_REQ (tsc_CellDedicated, tsc_RB3)		
8		CRLC ? CRLC_RRC_MessageSN_CNF (tcv_RRC_MSN_RB3 := CRLC_RRC_MessageSN_CNF.count_ I_LSB_DL)	car_CRLC_RRC_MessageS N_CNF (tsc_CellDedicated, tsc_RB3)		
9		CRLC ! CRLC_RRC_MessageSN_REQ	cas_CRLC_RRC_MessageS N_REQ (tsc_CellDedicated, tsc_RB4)		
10		CRLC ? CRLC_RRC_MessageSN_CNF (tcv_RRC_MSN_RB4 := CRLC_RRC_MessageSN_CNF.cou nt_I_LSB_DL)	car_CRLC_RRC_MessageS N_CNF (tsc_CellDedicated, tsc_RB4)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAC_UL_DL_CipherCfg (p_CipherMode: CipheringModeCommand; p_ActTime: INTEGER; p_IncrDcr : Increment_Mode) Group : BasicM_Security_Steps/ Objective : Configure ciphering on the MAC layer for UL and DLRBs. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_CMAC_DL_CipherCfg (p_CipherMode, p_ActTime, p_IncrDcr)			
2		+ts_CMAC_UL_CipherCfg (p_CipherMode, p_ActTime, p_IncrDcr)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_ReconfRLC_Size (p_urnti:BOOLEAN) Group : BasicM_SS_Configuration_Steps/ Objective : To Reconfigure RLC size to allow U-RNTI in MAC header or C-RNTI in MAC header depending on parameter if it is TRUE allow U-RNTI in MAC header and if it is false allow C-RNTI in MAC header Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_urnti=TRUE]			
2		CRLC ! CRLC_Config_REQ	cad_RB_UM_ReconfInfo (tsc_CellDedicated , tsc_RB1, {uLogicalChannelIdentity tsc_UL_DCCH1, dLogicalChannelIdentity tsc_DL_DCCH1})		configure radio bearers : RB1 (UM + DCCH) and (UM + DCCH) Payload size=120
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB1)		
4		[p_urnti=FALSE]			
5		CRLC ! CRLC_Config_REQ	ca_RB_UM_ReconfInfo (tsc_CellDedicated , tsc_RB1, {uLogicalChannelIdentity tsc_UL_DCCH1, dLogicalChannelIdentity tsc_DL_DCCH1})		configure radio bearers : RB1 (UM + DCCH) and (UM + DCCH) Payload size=136 (default)
6		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAC_New_RNTI_Reconf (p_urnti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING) Group : BasicM_SS_Configuration_Steps/ Objective : Reconfigure MAC when a new U_RNTI or C_RNTI is assigned to UE. Default : SS_Def Comments : U-RNTI and C-RNTI are not required on DPCH. U-RNTI and C-RNTI is necessary when DCCH/DTCH mapped on S-CCPCH. C-RNTI is necessary when DCCH/DTCH mapped on PRACH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size (p_urnti)			
3		+ lt_CMAC_Reconf (p_urnti)			
4		lt_CMAC_Reconf (p_urnti: BOOLEAN)			
5		[p_urnti] CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_S_CCPCH1, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoPCH_FACH_PS , c_TrLogMappingPCH_FACH_PS)		SS has valid U-RNTI, C-RNTI is not valid
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH1)		
7		[NOT p_urnti]			
8		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn)]			
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DTCH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on PRACH
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)		
11		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_S_CCPCH1, c_UE_Info(OMIT, p_C_RNTI), c_TrChInfoPCH_FACH_PS , c_TrLogMappingPCH_FACH_PS)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH1)		
13		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAC_Pag1_Cfg (p_CellId: INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : Configure paging on the MAC layer. Default : SS_Def Comments : This step shall be used when UE in idle mode. The DRX cycle length to use is the shortest of the CN domain specific Drx cycle length. The test case variable tcv_dRX_CycleLengthPaging is assigned to: the smallest value of CN Drx cycle length for the CN domain the UE is attached to.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		+ It_CalculateDrxCycleLength			
4		CMAC ! CMAC_PAGING_Config_REQ	ca_CMAC_PagingCfgReq(p_CellId, tsc_S_CCPCH1, fdd, c_MAC_PagingCfg (o_GetPI(px_IMSI_Def, 18), tcv_dRX_CycleLengthPaging))		
5		CMAC ? CMAC_PAGING_Config_CNF	ca_CMAC_PagingCfgCnf(p_CellId, tsc_S_CCPCH1)		
6	ERR1	[px_RAT = tdd]		I	
7	ERR2	[TRUE]		I	
		It_CalculateDrxCycleLength			
8		[pc_CS AND pc_PS]			0.
9		[tcv_TmpCellInfo.dRX_CycleLength.cN_CS_DRX_CycleLength <= tcv_TmpCellInfo.dRX_CycleLength.cN_PS_DRX_CycleLength]			1.
10		(tcv_dRX_CycleLengthPaging := tcv_TmpCellInfo.dRX_CycleLength.cN_CS_DRX_CycleLength)			
11		[TRUE]			2.
12		(tcv_dRX_CycleLengthPaging := tcv_TmpCellInfo.dRX_CycleLength.cN_PS_DRX_CycleLength)			
13		[pc_CS AND NOT (pc_PS)]			3.
14		(tcv_dRX_CycleLengthPaging := tcv_TmpCellInfo.dRX_CycleLength.cN_CS_DRX_CycleLength)			
15		[pc_PS AND NOT (pc_CS)]			4.
16		(tcv_dRX_CycleLengthPaging := tcv_TmpCellInfo.dRX_CycleLength.cN_PS_DRX_CycleLength)			
Detailed Comments : 0. UE supports CS and PS 1. CN Drx Cycle length for CS is smaller than PS, then CN Drx Cycle length for CS is used 2. CN Drx Cycle length for CS is smaller than PS, then CN Drx Cycle length for PS is used 3. UE supports only CS, the CN Drx cycle length for CS is used 4. UE supports only PS, the CN Drx cycle length for PS is used					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAC_Rel (p_CellId : INTEGER; p_PhyCH : PhysicalChannelIdentity) Group : BasicM_SS_Configuration_Steps/ Objective : To request to release the Radio Link Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_Config_REQ	cas_MAC_Rel (p_CellId , p_PhyCH)		
2		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , p_PhyCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CPHY_ActTime (p_CellId: INTEGER; p_PhysicalChannelIdentity : PhysicalChannelIdentity; p_ttiValue : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To calculate the activation time based on CHY frame number Default : SS_Def Comments : p_ttiValue : is equal to tti/10 The following tcv are assigned: tcv_FrameNumber, tcv_ActTime Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_Frame_Number_REQ	cas_GetFrameNum(p_CellId, p_PhysicalChannelIdentity)		
2		CPHY ? CPHY_Frame_Number_CNF (tcv_FrameNumber := CPHY_Frame_Number_CNF.frameNumber)	car_GetFrameNum(p_CellId, p_PhysicalChannelIdentity)		
3		(tcv_ActTime := (256 + tcv_FrameNumber- (tcv_FrameNumber MOD 8 +8)) MOD 256, tcv_TGCFN := (tcv_FrameNumber+(256-p_ttiValue)) MOD 256)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CPHY_TrChRelDCH_NoSHO (p_CellId : INTEGER; p_PhyCH : PhysicalChannelIdentity) Group : BasicM_SS_Configuration_Steps/ Objective : To request to release the Radio Link Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_TrCH_Release_REQ	ca_PHY_RelReqDCH_NoSHO (p_CellId , p_PhyCH)		
2		CPHY ? CPHY_TrCH_Release_CNF	ca_PHY_RelCnf (p_CellId , p_PhyCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CPHY_TrChRelNonDch (p_CellId : INTEGER; p_PhyCH : PhysicalChannelIdentity) Group : BasicM_SS_Configuration_Steps/ Objective : To request to release the Radio Link Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_TrCH_Release_REQ	ca_PHY_RelReqNonDch (p_CellId , p_PhyCH)		
2		CPHY ? CPHY_TrCH_Release_CNF	ca_PHY_RelCnf (p_CellId , p_PhyCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_Rel (p_CellId : INTEGER; p_RB_Id : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To release RLC entity. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_CRLC_RB_RelReq (p_CellId, p_RB_Id)		release radio bearer
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (p_CellId, p_RB_Id)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_RelReconfSRB (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To release RLC counter sequence number for SRB 1 to 4, by first releasing them and then setting them up again. Default : SS_Def Comments : This step is used only in conjunction with the RRC Connexion Release step. The configuration for SRBs 1 to 4 is the same as the one used for cell_DCH and cell_FACH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			
2		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
3		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
4		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
5		+ ts_SS_RB1_ToRB4_Cfg			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_ResumeSecurity (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : resume radio bearers for the security procedure Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Switch On ciphering
2		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB1)		
3		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB1)		
4		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB3)		
5		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB3)		
6		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB4)		
7		CRLC ? CRLC_Resume_CNF (tcv_RB_SigResumed := TRUE)	car_ResumeRB(tsc_CellDedicated , tsc_RB4)		
8		[((tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS))AND (tcv_CellIndInfo. recentSecureDomain = ps_domain)]			
9		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB20)		
10		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB20)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		[tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB]			
12		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB21)		
13		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB21)		
14		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB)]			
15		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB20)		
16		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB20)		
17		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB21)		
18		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB21)		
19		[(tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call)]			
20		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB20)		
21		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB20)		
22		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicated , tsc_RB22)		
23		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicated , tsc_RB22)		
24		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_SuspendSecurity (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : suspend radio bearers for the security procedure Default : SS_Def_Special Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Switch On ciphering
2		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB1, tcv_RLC_SeqNumDL_RB1)		2
3		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB1)		
4		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB3, tcv_RLC_SeqNumDL_RB3)		2
5		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB3)		
6		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB4, tcv_RLC_SeqNumDL_RB4)		2
7		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB4)		
8		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FA			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9		CH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)) AND (tcv_CellIndInfo. recentSecureDomain =ps_domain)] CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB20, tcv_RLC_SeqNumDL_RB20)		2
10		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB20)		
11		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) AND (tcv_CellIndInfo. recentSecureDomain =ps_domain)]			
12		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB21, tcv_RLC_SeqNumDL_RB21)		2
13		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB21)		
14		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB)AND (tcv_CellIndInfo. recentSecureDomain =ps_domain)]			
15		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB20, tcv_RLC_SeqNumDL_RB20)		2
16		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB20)		
17		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB21, tcv_RLC_SeqNumDL_RB21)		2
18		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB21)		
19		[[(tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call)) AND (tcv_CellIndInfo. recentSecureDomain =ps_domain)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB20, tcv_RLC_SeqNumDL_RB20)		2
21		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB20)		
22		CRLC ! CRLC_Suspend_REQ	cas_RLC_SuspendRB (tsc_CellDedicated , tsc_RB22, tcv_RLC_SeqNumDL_RB22)		2
23		CRLC ? CRLC_Suspend_CNF	car_SuspendRB (tsc_CellDedicated , tsc_RB22)		
24		[TRUE]			
Detailed Comments : 1. Get the RLC sequence number 2. suspend the SRB at the current RLC sequence number					

Test Step Dynamic Behaviour					
Test Step Name : ts_ReconfigFACH_ToNoDedicated (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To reconfig the cell from cell_FACH to cell_FACH_NoDedicated. Default : SS_Def Comments : In cell_FACH_NoDedicated, no DCCH/DTCH are configured: no C-RNTI nor U-RNTI are downloaded to CMAC. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		+ It_RelBCCH_FACH			
4		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId, tsc_S_CCPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCCH to PCH, CCCH to FACH
5		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_S_CCPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId, tsc_PRACH1, c_UE_Info(OMIT, OMIT), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to RACH
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_PRACH1)		
8	ERR1	[px_RAT = tdd]		I	
9	ERR2	[TRUE]		I	
10		It_RelBCCH_FACH [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS)]			
11		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
12		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_1DCH_DCCH_Cfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : to configure physical channel DPCH1 and connect DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel. Used for setting up stand-alone UL:13.6 DL:13.6 kbps SRBs Default : SS_Def Comments : The transport channel DCH5 carries only dedicated control channels. MAC-d is configured with cellId -1 (tsc_CellDedicated). Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		(tcv_TGCFN := 0)			
4		CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_SRB_Stand AloneDPCH_Offset (tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		1.
5		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_DL_DPCH1)		
6		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_TTI_10_DL_InfoActNow (p_CellId, tsc_DL_DPCH1)		2.
7		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
8		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_13_6_Stand Alone, c_TrLogMappingDL_4DCC H)		3. C-RNTI and U-RNTI are not needed on DPCH
9		CMAC ? CMAC_Config_CNF	ca_CMACEfgCnf(tsc_CellDedicated, tsc_DL_DPCH1)		
10		CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_Info(p_CellId, tsc_UL_DPCH1, c_UL_DPCH_13_6_Stand Alone(tcv_TmpCellInfo.ul_ScramblingCode))		1.
11		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_UL_DPCH1)		
12		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_TTI_10_UL_InfoActNow (p_CellId, tsc_UL_DPCH1)		2.
13		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
14		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_13_6_Stand Alone, c_TrLogMappingUL_4DCC H)		3. C-RNTI and U-RNTI are not needed on DPCH

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
16	ERR1	[px_RAT = tdd]		I	
17	ERR2	[TRUE]		I	
Detailed Comments : 1. configure physical channel DPCH1. 2. connect DCH5 to DPCH1. 3. map logical channels: DCCH1–4 to DCH5. MAC–d is to be configured with cellId –1.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_2DCH_Modify (p_CellId : INTEGER; p_UL_TrChConfig: CphyTrchConfigReq; p_DL_TrChConfig: CphyTrchConfigReq; p_UL_TrCHInfo, p_DL_TrCHInfo: TrCHInfo; p_UL_TrLogMapping, p_DL_TrLogMapping: TrCH_LogCHMappingList1; p_ActTime: ActivationTime; p_DL_DPCHInfo : DL_DPCHInfo; p_UL_DPCH_Info : UL_DPCH_Info)					
Group : BasicM_SS_Configuration_Steps/					
Objective : to modify physical channel DPCH1and connect DCH1and DCH5 to the physical channel, then map DCCH1–4 on to the DCH5 transport channel and map DTCH1 to the DCH1 transport channel. used for RLC testing.					
Default : SS_Def					
Comments : SS is in TM mode different from the mode of UE. Transport channel configuration is parameter (of type: CphyTrchConfigReq); DPCH is 64 kbps physical channel.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, p_DL_DPCHInfo,p_ActTime)		1.
4		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
5		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo(p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_No SHO, p_DL_TrChConfig)		3.
6		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
7		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), p_DL_TrCHInfo, p_DL_TrLogMapping,p_Act Time)		4. U–RNTI and C–RNTI are not needed on DPCH
8		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
9		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo(p_CellId, tsc_UL_DPCH1, p_UL_DPCH_Info,p_ActTime)		1.
10		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_UL_DPCH1)		
11		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, p_UL_TrChConfig)		2.
12		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_UL_DPCH1, c_UE_Info(OMIT, OMIT), p_UL_TrCHInfo, p_UL_TrLogMapping,p_Act Time)		4. U-RNTI and C-RNTI are not needed on DPCH
14		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_UL_DPCH1)		
15	ERR1	[px_RAT = tdd]		I	
16	ERR2	[TRUE]		I	
Detailed Comments : 1. configure DPCH1 supporting 64 kspb data rate. 2. connect uplink DCH1 and DCH5 to DPCH1. 3. connect downlink DCH1 and DCH5 to DPCH1. 4. map logical channels: DCCH1-4 to DCH5, DTCH1 to DCH1 for both uplink and downlink and send relevant transport channel configuration information to MAC.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_AddDPCH (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To reconfigure the cell p_CellId from cell_NoDPCH to cell_DCH_StandaloneSRB_NoConn. Default : SS_Def Comments : The following channels need to be created: physical channels: DPCH; transport channels: DCH logical channels: DCCH; and signalling radio bearer: signalling bearer RB1, RB2, RB3, RB4 on DCH.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SS_1DCH_DCCH_Cfg (p_CellId)			
2		+ts_SS_RB1_ToRB4_Cfg			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_BCH_SCH_CPICH_Cfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To configure P-CCPCH, P-SCH, S-SCH and P-CPICH physical channels. To map BCH to P-PCCPCH, then to map logical channel BCCH to transport channel BCH. Default : SS_Def Comments : To configure P-CCPCH, P-SCH, S-SCH and P-CPICH physical channels and map BCH to P-PCCPCH, then to map logical channel BCCH to transport channel BCH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Setup_REQ	ca_pCPICH_Info (p_CellId, (tcv_TmpCellInfo.powerpCPICH))		p-CPICH
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_P_CPICH)		
5		CPHY!CPHY_RL_Setup_REQ	ca_pSCH_Info (p_CellId, (tcv_TmpCellInfo.powerpSCH))		p-SCH
6		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_P_SCH)		
7		CPHY!CPHY_RL_Setup_REQ	ca_sSCH_Info (p_CellId, (tcv_TmpCellInfo.powersSCH))		s-SCH
8		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_S_SCH)		
9		CPHY!CPHY_RL_Setup_REQ	ca_pCCPCH_Info (p_CellId, (tcv_TmpCellInfo.powerpCCPCH))		p-CCPCH
10		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_P_CCPCH)		
11		CPHY!CPHY_TrCH_Config_REQ	ca_BCH_InfoActNow (p_CellId)		BCH connected to p-CCPCH
12		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_P_CCPCH)		
13		CMAC!CMAC_Config_REQ	ca_CMAC_CfgInfo(p_CellId, tsc_P_CCPCH, c_UE_Info (OMIT, OMIT) , c_TrChInfoBCH1, c_TrLogMappingBCH1)		mapping BCCH to BCH. C-RNTI and U-RNTI are not needed on P-CCPCH
14		CMAC?CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_P_CCPCH)		
15	ERR1	[px_RAT = tdd]		I	
16	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_CellCfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To setup the cell parameter in CPHY, if the cell 'p_CellId' is the first one to be created, then CPHY shall be initialised using CHY_INIT_Req ASP. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			Fetch table corresponding to the cell
2	ERR	[tcv_TmpCellInfo.cellConfig <> cell_NotConfigured]		I	Fatal error: cell already configured
3		[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]			Cell not yet configured
4		+ It_CellsAlreadyStarted			
5		[px_RAT = fdd]			
6		CPHY!CPHY_Cell_Config_REQ	ca_CellCfgReq(p_CellId, tcv_TmpCellInfo.tCell, tcv_TmpCellInfo.frequencyInfo, tcv_TmpCellInfo.priScrmCode, tcv_TmpCellInfo.attenuationLevel, tcv_TmpCellInfo.sfnOffset, tcv_TmpCellInfo.cellTxPowerLevel)		
7		CPHY?CPHY_Cell_Config_CNF	ca_CellCfgCnf(p_CellId)		
8		+ ts_SaveCellInfo (p_CellId)			
9	ERR2	[px_RAT = tdd]		I	
10	ERR3	[TRUE]		I	
11		It_CellsAlreadyStarted			
12		+ ts_CountConfiguredCell			
13		[tcv_NumCfgCell = 0]			1.
14		+ts_MM_PwrOrUSIM_Off(tsc_USIM_NeedRm v)			1. Deactivate the UE
15		[tcv_DefaultRadioCnf = TRUE]			3.
16		CPHY ! CPHY_Ini_REQ	cas_InitReqDef		
17		CPHY ? CPHY_Ini_CNF	car_IniCnf		
18		(tcv_TmpCellInfo.tCell := 0)			
19		[tcv_DefaultRadioCnf = FALSE]			4.
20		CPHY ! CPHY_Ini_REQ	cas_InitReqNonDef		
21		CPHY ? CPHY_Ini_CNF	car_IniCnf		
22		(tcv_TmpCellInfo.tCell := 0)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		[tcv_NumCfgCell <> 0]			2.
Detailed Comments : 1. The cell 'p_CellId' is the first one to be created 2. The cell 'p_CellId' is not the first one to be created 3. CPHY_Init_Request is sent with a defaultRadioEnvironment value 4. CPHY_Init_Request is sent with a nonDefaultMultiCell value					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_PCH_2FACH_CCCH_DCCH_BCCH_DTCH_Cfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To configure a secondary CCPCH (tsc_S_CCPCH1), then connect PCH and 2 FACH's to the secondary CCPCH . finally to map PCCH to PCH and DCCH1, DCCH2, DCCH3, DCCH4, CCCH, BCCH(for BCCH_FACH) to FACH1 and DTCH to FACH2. Default : SS_Def Comments : one secondary CCPCH(tsc_S_CCPCH1) for PCH and FACH. PCCH mapping to PCH and DCCH1, DCCH2, DCCH3, DCCH4, CCCH, BCCH(for BCCH_FACH) to FACH1, and DTCH to FACH2. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_Info(p_CellId, tsc_S_CCPCH1, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH1_ChC, tcv_TmpCellInfo.slotFormat sCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), tcv_TmpCellInfo.timingsCCPCH1)		s-CCPCH1
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH1)		
5		CPHY!CPHY_TrCH_Config_REQ	ca_PCH_2_FACH_InfoActNow (p_CellId, tsc_S_CCPCH1)		connect PCH and FACH to s-CCPCH1
6		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_S_CCPCH1)		
7		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_S_CCPCH1, c_UE_Info(tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrChInfoPCH_FACH_PS , c_TrLogMappingPCH_FACH_PS)		map PCCH to PCH, and map CCCH, BCCH, DTCH and DCCH's to FACH. C-RNTI and U-RNTI are needed when DCCH/DTCH are mapped on S-CCPCH
8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_S_CCPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9		CPHY!CPHY_RL_Setup_REQ	ca_PICH_Info (p_CellId, c_PichInfo, (tsc_TmpCellInfo.powerPIC H),tsc_S_CCPCH1)		PICH
10		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_PICH1)		
11	ERR1	[px_RAT = tdd]		I	
12	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_PCH_FACH_CCCH_Cfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To configure a secondary CCPCH (tsc_S_CCPCH1), then connect PCH and FACH to the secondary CCPCH .(34.108 cl. 4.2.1), finally to map PCCH to PCH and CCCH to FACH. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_Info(p_CellId, tsc_S_CCPCH1, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH1_ChC, tcv_TmpCellInfo.slotFormat sCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), tcv_TmpCellInfo.timingsCCPCH1)		s-CCPCH1
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH1)		
5		CPHY!CPHY_TrCH_Config_REQ	ca_PCH_2_FACH_InfoAct Now (p_CellId, tsc_S_CCPCH1)		connect PCH and FACH to s-CCPCH1
6		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_S_CCPCH1)		
7		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo (p_CellId, tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCCH to PCH. U-RNTI and C-RNTI are not needed (no DCCH/DTCH)
8		CMAC ? CMAC_Config_CNF	ca_CMACEfgCnf(p_CellId, tsc_S_CCPCH1)		
9		CPHY!CPHY_RL_Setup_REQ	ca_PICH_Info(p_CellId, c_PichInfo, (tcv_TmpCellInfo.powerPICH), tsc_S_CCPCH1)		PICH
10		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_PICH1)		
11	ERR1	[px_RAT = tdd]		I	
12	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_PrepareCellRRC_ConnEst (p_CellId: INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To reconfigure the cell if it is not ready for an RRC connection establishment. 4 cases are handled: 1> the cell is already configure (cell_DCH_StandAloneSRB_NoConn OR cell_FACH_NoConn OR cell_FACH_BMC_NoConn OR cell_FACH_2PRACH_NoConn OR cell_FACH_2_SCCPCH_NoConn) 2> the cell is configured to cell_NoDPCH, then remove the DPCH from the 'old' cell and configure the DPCH in the cell p_CellId 3> the cell is configured to cell_FACH_NoDedicated , then reconfigure the old cell where the 4> the configuration of the cell to not allow an RRC connection establishment -> error case Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)]			0

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
3		[(tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcv_CellInfoA.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kPS_RAB_SRB)]			1
4		+ It_ReconfOldDPCH_Cell			
5		+ ts_SS_AddDPCH(p_CellId)			
6		(tcv_TmpCellInfo.cellConfig := cell_DCH_StandAloneSRB_NoConn, tcv_TmpCellInfo.DL_DPCH_SHO := TRUE, tcv_TmpCellInfo.UL_DPCH_SHO := TRUE)			
7		+ ts_SaveCellInfo (p_CellId)			
8		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated]			2
9		+ It_ReconfOldFACH_Cell			
10		+ ts_SS_ReconfNoDedicatedToCellFACH (p_CellId)			
11		+ ts_SetCellCfg (p_CellId, cell_FACH_NoConn)			
12	ERR	[TRUE]		I	Program ming error
		It_ReconfOldFACH_Cell			
13		[(tcv_CellInfoA.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoA.cellConfig = cell_FACH) OR (tcv_CellInfoA.cellConfig = cell_FACH_PS)]			
14		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellA)			
15		(tcv_CellInfoA.cellConfig := cell_FACH_NoDedicated)			
16		[(tcv_CellInfoB.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoB.cellConfig = cell_FACH) OR (tcv_CellInfoB.cellConfig = cell_FACH_PS)]			
17		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellB)			
18		(tcv_CellInfoB.cellConfig := cell_FACH_NoDedicated)			
19		[(tcv_CellInfoC.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoC.cellConfig = cell_FACH) OR (tcv_CellInfoC.cellConfig = cell_FACH_PS)]			
20		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellC)			
21		(tcv_CellInfoC.cellConfig := cell_FACH_NoDedicated)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		[(tcv_CellInfoD.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoD.cellConfig = cell_FACH) OR (tcv_CellInfoD.cellConfig = cell_FACH_PS)]			
23		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellD)			
24		(tcv_CellInfoD.cellConfig := cell_FACH_NoDedicated)			
25		[(tcv_CellInfoE.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoE.cellConfig = cell_FACH) OR (tcv_CellInfoE.cellConfig = cell_FACH_PS)]			
26		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellE)			
27		(tcv_CellInfoE.cellConfig := cell_FACH_NoDedicated)			
28		[(tcv_CellInfoF.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoF.cellConfig = cell_FACH) OR (tcv_CellInfoF.cellConfig = cell_FACH_PS)]			
29		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellF)			
30		(tcv_CellInfoF.cellConfig := cell_FACH_NoDedicated)			
31		[(tcv_CellInfoG.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoG.cellConfig = cell_FACH) OR (tcv_CellInfoG.cellConfig = cell_FACH_PS)]			
32		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellG)			
33		(tcv_CellInfoG.cellConfig := cell_FACH_NoDedicated)			
34		[(tcv_CellInfoH.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoH.cellConfig = cell_FACH) OR (tcv_CellInfoH.cellConfig = cell_FACH_PS)]			
35		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellH)			
36		(tcv_CellInfoH.cellConfig := cell_FACH_NoDedicated)			
37	ERR1	[TRUE] It_ReconfOldDPCH_Cell		I	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		[(tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_UM_RAB)]			
39		+ ts_SS_RelDPCH (tsc_CellA)			
40		(tcv_CellInfoA.cellConfig := cell_NoDPCH, tcv_CellInfoA.DL_DPCH_SHO := FALSE, tcv_CellInfoA.UL_DPCH_SHO := FALSE)			
41		[(tcv_CellInfoB.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoB.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoB.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoB.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoB.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoB.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoB.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoB.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoB.cellConfig = cell_PDCP_AM_UM_RAB)]			
42		+ ts_SS_RelDPCH (tsc_CellB)			
43		(tcv_CellInfoB.cellConfig := cell_NoDPCH , tcv_CellInfoB.DL_DPCH_SHO := FALSE, tcv_CellInfoB.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		[(tcv_CellInfoC.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoC.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoC.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoC.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoC.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoC.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoC.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoC.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoC.cellConfig = cell_PDCP_AM_UM_RAB)]			
45		+ ts_SS_RelDPCH (tsc_CellC)			
46		(tcv_CellInfoC.cellConfig := cell_NoDPCH, tcv_CellInfoC.DL_DPCH_SHO := FALSE, tcv_CellInfoC.UL_DPCH_SHO := FALSE)			
47		[(tcv_CellInfoD.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoD.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoD.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoD.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoD.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoD.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoD.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoD.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoD.cellConfig = cell_PDCP_AM_UM_RAB)]			
48		+ ts_SS_RelDPCH (tsc_CellD)			
49		(tcv_CellInfoD.cellConfig := cell_NoDPCH, tcv_CellInfoD.DL_DPCH_SHO := FALSE, tcv_CellInfoD.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
50		[(tcv_CellInfoE.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoE.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoE.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoE.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoE.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoE.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoE.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoE.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoE.cellConfig = cell_PDCP_AM_UM_RAB)]			
51		+ ts_SS_RelDPCH (tsc_CellE)			
52		(tcv_CellInfoE.cellConfig := cell_NoDPCH, tcv_CellInfoE.DL_DPCH_SHO := FALSE, tcv_CellInfoE.UL_DPCH_SHO := FALSE)			
53		[(tcv_CellInfoF.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoF.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoF.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoF.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoF.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoF.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoF.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoF.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoF.cellConfig = cell_PDCP_AM_UM_RAB)]			
54		+ ts_SS_RelDPCH (tsc_CellF)			
55		(tcv_CellInfoF.cellConfig := cell_NoDPCH, tcv_CellInfoF.DL_DPCH_SHO := FALSE, tcv_CellInfoF.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
56		[(tcv_CellInfoG.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoG.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoG.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoG.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoG.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoG.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoG.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoG.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoG.cellConfig = cell_PDCP_AM_UM_RAB)]			
57		+ ts_SS_RelDPCH (tsc_CellG)			
58		(tcv_CellInfoG.cellConfig := cell_NoDPCH, tcv_CellInfoG.DL_DPCH_SHO := FALSE, tcv_CellInfoG.UL_DPCH_SHO := FALSE)			
59		[(tcv_CellInfoH.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoH.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoH.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoH.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoH.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoH.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoH.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoH.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoH.cellConfig = cell_PDCP_AM_UM_RAB)]			
60		+ ts_SS_RelDPCH (tsc_CellH)			
61		(tcv_CellInfoH.cellConfig := cell_NoDPCH, tcv_CellInfoH.DL_DPCH_SHO := FALSE, tcv_CellInfoH.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62		[TRUE]			
Detailed Comments : 0. No reconfiguration of the cell is needed before RRC connection establishment 1. Reconfigure the cell p_CellId to cell_DCH_StandAloneSRB_NoConn and reconfigure the cell set to cell_DCH_StandAloneSRB_NoConn to cell_NoDPCH 2. Reconfigure the cell p_CellId to cell_FACH_NoConn and reconfigure the cell set to cell_FACH_NoConn to cell_FACH_NoDedicated					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RACH_CCCH_Cfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To configure AICH and PRACH physical channels and connect RACH onto PRACH, then map one logical channel (CCCH) to RACH Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Setup_REQ	ca_AichInfo (p_CellId, tsc_AICH1, c_AICH_Info, tcv_TmpCellInfo.powerAICH)		AICH
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_AICH1)		
5		CPHY!CPHY_RL_Setup_REQ	ca_PRACH_Info (p_CellId, tsc_PRACH1, tsc_PRACH1_Signatures, tsc_PRACH1_ScrC, tcv_TmpCellInfo.puncLimit, tcv_TmpCellInfo.sf_PRACH , tcv_SubChNum)		PRACH
6		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_PRACH1)		
7		CPHY!CPHY_TrCH_Config_REQ	cab_RACH_InfoActNow (p_CellId, tsc_PRACH1)		connect RACH to PRACH
8		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_PRACH1)		
9		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_PRACH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to RACH. C-RNTI and U-RNTI are not needed on
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_PRACH1)		
11	ERR1	[px_RAT = tdd]		I	
12	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RACH_CCCH_DCCH_DTCH_Cfg (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To configure AICH and PRACH physical channels and connect RACH onto PRACH, then map five logical channels (CCCH, DCCH1, DCCH2, DCCH3, DCCH4) to RACH Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Setup_REQ	ca_AichInfo(p_CellId, tsc_AICH1, c_AICH_Info, (tcv_TmpCellInfo.powerAICH))		AICH
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_AICH1)		
5		CPHY!CPHY_RL_Setup_REQ	ca_PRACH_Info(p_CellId, tsc_PRACH1, tsc_PRACH1_Signatures, tsc_PRACH1_ScrC, tcv_TmpCellInfo.puncLimit, tcv_TmpCellInfo.sf_PRACH, tcv_SubChNum)		PRACH
6		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_PRACH1)		
7		CPHY!CPHY_TrCH_Config_REQ	cab_RACH_InfoActNow (p_CellId, tsc_PRACH1)		connect RACH to PRACH
8		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_PRACH1)		
9		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo(p_CellId, tsc_PRACH1, c_UE_Info(OMIT, tcv_TmpCellInfo.cRNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DTCH)		CCCH, DCCH1, DCCH2, DCCH3, DCCH4 to RACH. Only C-RNTI is used for DCCH/ DTCH on PRACH
10		CMAC ? CMAC_Config_CNF	ca_CMACEfgCnf(p_CellId, tsc_PRACH1)		
11	ERR1	[px_RAT = tdd]		I	
12	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB1_ToRB4_Cfg Group : BasicM_SS_Configuration_Steps/ Objective : To setup radio bearers : RB1, RB2, RB3, RB4. default values from 34.123-1 Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_UM_Info (tsc_CellDedicated , tsc_RB1, {uLogicalChannelIdentity tsc_UL_DCCH1, dLogicalChannelIdentity tsc_DL_DCCH1})		configure radio bearers : RB1 (UM + DCCH) and (UM + DCCH)
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB1)		
3		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_SRB (tsc_CellDedicated, tsc_RB2, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DCCH2, dLogicalChannelIdentity tsc_DL_DCCH2}, 128)		configure radio bearers : RB2 (AM + DCCH) and (AM + DCCH)
4		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB2)		
5		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_SRB (tsc_CellDedicated, tsc_RB3, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DCCH3, dLogicalChannelIdentity tsc_DL_DCCH3}, 128)		configure radio bearers : RB3 (AM + DCCH) and (AM + DCCH)
6		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB3)		
7		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_SRB (tsc_CellDedicated, tsc_RB4, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DCCH4, dLogicalChannelIdentity tsc_DL_DCCH4}, 128)		configure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
8		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB20_AM_PS_Cfg (p_Payloadsize: INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : setup radio bearers : RB20. default values from 34.108 cl. 6.10.2.4.4 and 6.10.2.4.3.3 Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_RAB (tsc_CellDedicated, tsc_RB20, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollISDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1},p_Payload size)		cofigure radio bearers : RB20 (AM + DTCH)
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB_BCCH_BCH_Cfg(p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : to setup the radio bearer (RB_BCCH) which is used for sending system information blocks. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC!CRLC_Config_REQ	ca_RB_BCCH_Info(p_CellId, tsc_RB_BCCH, {dLogicalChannelIdentity tsc_BCCH1})		configur e radio bearer (RB_BC CH) for BCCH on TM + BCCH + BCH, used for sending system informati on blocks
2		CRLC?CRLC_Config_CNF	ca_CRLC_CfgCnf(p_CellId, tsc_RB_BCCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB_BCCH_FACH_Cfg (p_CellId: INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : setup radio bearers : RB9 (downlink only) this bearer is for BCCH–FACH (TM + BCCH + FACH + SCCPCH1). The configuration is adapted from 34.108 cl. 6.10.2.4.3. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_TM_DL_InfoNoSeg (p_CellId, tsc_RB_BCCH_FACH, 166, {dLlogicalChannelIdentity tsc_BCCH6})		configure radio bearers (downlink): RB9 (TM + BCCH + FACH)
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(p_CellId, tsc_RB_BCCH_FACH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB_PCCH_Cfg(p_CellId: INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : to setup radio bearer (RB_PCCH) used for paging message sending Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_PCCH_Info(p_CellId, tsc_RB_PCCH, {dLlogicalChannelIdentity tsc_PCCH1})		configure radio bearer(RB_PCCH) on TM + PCCH + PCH, used for sending paging message
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(p_CellId, tsc_RB_PCCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfigRAB_ToSRB (p_CellId: INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To reconfigure SS from a configuration including RABS to cell_DCH. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_SS_ReIDPCH (p_CellId)			
3		+ ts_SS_1DCH_DCCH_Cfg (p_CellId)			
4		+ ts_SS_RB1_ToRB4_Cfg			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfNoDedicatedToCellFACH (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To reconfig the cell from cell_FACH_NoDedicated to cell_FACH. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId, tsc_S_CCPCH1, c_UE_Info(tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrChInfoPCH_FACH_PS , c_TrLogMappingPCH_FACH_PS)		map PCCH to PCH, and map CCCH, BCCH, DTCH and DCCH's to FACH
4		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_S_CCPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId, tsc_PRACH1, c_UE_Info(OMIT, tcv_TmpCellInfo.cRNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DTCH)		CCCH, DCCH1, DCCH2, DCCH3, DCCH4 to RACH
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_PRACH1)		
7		+ lt_RB_BCCH_FACH_Cfg			
8	ERR1	[px_RAT = tdd]		I	
9	ERR2	[TRUE]		I	
10		lt_RB_BCCH_FACH_Cfg [tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated]			
11		+ts_SS_RB_BCCH_FACH_Cfg(p_CellId)			Config BCCH on FACH
12		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_Rel (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To release all channels that are configured in the SS. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn)]			
3		+ ts_SS_RelDPCH (p_CellId)			1.
4		+ lt_ReleaseCommonCh			
5		+ lt_Release_BCCH			
6		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
7		[(tcv_TmpCellInfo.cellConfig = cell_NoDPCH)]			
8		+ lt_ReleaseCommonCh			
9		+ lt_Release_BCCH			
10		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
11		[(tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn)]			
12		+ lt_RelSRB1_4			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
14		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
15		+ It_ReleaseCommonCh			
16		+ It_Release_BCCH			
17		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
18		[(tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn)]			
19		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			1.
20		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
21		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB_DCCH_FACH_MAC)			
22		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
23		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
24		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
25		+ It_ReleaseCommonCh			
26		+ It_Release_BCCH			
27		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
28		[(tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn)]			
29		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			1.
30		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
31		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
32		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
33		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
34		+ ts_CRLC_Rel (p_CellId, tsc_RB_CCCH_FACH_MAC)			
35		+ It_ReleaseCommonCh			
36		+ It_Release_BCCH			
37		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
38		[(tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn)]			
39		+ It_RelSRB1_4			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
40		+ ts_CRLC_Rel (p_CellId , tsc_RB30)			
41		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
42		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
43		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			
44		+ It_ReleaseCommonCh			
45		+ It_Release_BCCH			
46		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
47		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH)]			
48		+ It_RelSRB1_4			
49		+ ts_CRLC_Rel (p_CellId , tsc_RB_2ndCCCH)			
50		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
51		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
52		+ It_ReleaseCommonCh			
53		+ ts_CMACH_Rel (p_CellId, tsc_PRACH2)			
54		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH2)			
55		+ ts_SS_StopRL (p_CellId , tsc_PRACH2)			
56		+ ts_SS_StopRL (p_CellId , tsc_AICH2)			
57		+ It_Release_BCCH			
58		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
59		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH)]			
60		+ It_RelSRB1_4			
61		+ ts_CRLC_Rel (p_CellId , tsc_RB30)			
62		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
63		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			
64		+ ts_CRLC_Rel (p_CellId , tsc_RB31)			
65		+ ts_CRLC_Rel (p_CellId , tsc_RB_2ndPCCH)			
66		+ It_ReleaseCommonCh			
67		+ ts_CMACH_Rel (p_CellId, tsc_S_CCPCH2)			
68		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
69		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH2)			
70		+ ts_SS_StopRL (p_CellId , tsc_PICH2)			
71		+ It_Release_BCCH			
72		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
73		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated)]			
74		+ It_ReleaseCommonCh			
75		+ It_Release_BCCH			
76		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
77		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			
78		+ It_RelSRB1_4			
79		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
80		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
81		+ ts_CRLC_Rel (p_CellId, tsc_RB0)			2.
82		+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)			
83		+ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
84		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
85		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
86		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH2)			
87		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)			
88		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH1)			
89		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
90		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
91		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)			
92		+ ts_CPHY_TrChRelNon Dch (p_CellId , tsc_S_CCPCH2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
93		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH2)			
94		+ lt_Release_BCCH			
95		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
96		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]			
97		+ lt_RelSRB1_4			
98		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
99		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)			
100		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
101		+ ts_CRLC_Rel (p_CellId , tsc_RB0)			2.
102		+ ts_CMALC_Rel (p_CellId, tsc_PRACH1)			
103		+ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
104		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
105		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
106		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH2)			
107		+ ts_CMALC_Rel (p_CellId, tsc_S_CCPCH1)			
108		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH1)			
109		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
110		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
111		+ ts_CMALC_Rel (p_CellId, tsc_S_CCPCH2)			
112		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
113		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH2)			
114		+ It_Release_BCCH			
115		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
116		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)]			
117		+ It_RelSRB1_4			
118		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
119		+ ts_CRLC_Rel (p_CellId, tsc_RB29)			
120		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
121		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH_RAB)			
122		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			
123		+ ts_CRLC_Rel (p_CellId, tsc_RB0)			2.
124		+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)			
125		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
126		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
127		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
128		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)			
129		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH1)			
130		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
131		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
132		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
133		+ ts_CPHY_TrChRel NonDch (p_CellId , tsc_S_CCPCH2)			
134		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH2)			
135		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH 3)			
136		+ ts_CPHY_TrC hRelNonDch (p_CellId , tsc_S_CCPC H3)			
137		+ ts_SS_Stop RL (p_CellId , tsc_S_CCP CH3)			
138		+ It_Release_ BCCH			
139		+ ts_SetCe llCfg (p_CellId, cell_Not Configur ed)			
140		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]			
141		+ It_RelSRB1_4			
142		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
143		+ ts_CRLC_Rel (p_CellId, tsc_RB30)			
144		+ ts_CRLC_Rel (p_CellId, tsc_RB29)			
145		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
146		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH_RAB)			
147		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			
148		+ ts_CRLC_Rel (p_CellId, tsc_RB0)			2.
149		+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)			
150		+ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
151		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
152		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
153		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)			
154		+ ts_CPHY_TrChRelNonD ch (p_CellId , tsc_S_CCPCH1)			
155		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
156		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
157		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)			
158		+ts_CPHY_TrChRelNonDch(p_CellId , tsc_S_CCPCH2)			
159		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH2)			
160		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPC H3)			
161		+ ts_CPHY_TrChRelNonDc h(p_CellId , tsc_S_CCP CH3)			
162		+ ts_SS_Sto pRL (p_CellId , tsc_S_CC PCH3)			
163		+ It_Releas e_BCCH			
164		+ ts_Set CellCfg (p_Cell Id, cell_No tConfig ured)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
165		[tcv_TmpCellInfo.cellConfig = cell_Two_DTCH]			
166		+ It_RelSRB1_4			
167		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
168		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
169		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
170		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
171		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
172		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
173		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
174		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
175		+ It_ReleaseCommonCh			
176		+ It_Release_BCCH			
177		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
178		[tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS]			
179		+ It_RelSRB1_4			
180		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
181		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
182		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB12)			
183		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB13)			
184		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
185		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
186		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
187		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
188		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
189		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
190		+ It_ReleaseCommonCh			
191		+ It_Release_BCCH			
192		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
193		[(tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS)]			
194		+ It_RelSRB1_4			
195		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
196		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
197		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
198		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
199		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
200		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
201		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
202		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
203		+ It_ReleaseCommonCh			
204		+ It_Release_BCCH			
205		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
206		[(tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS)]			
207		+ It_RelSRB1_4			
208		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
209		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
210		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB12)			
211		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
212		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
213		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
214		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
215		+ts_CPHY_TrChRelDCH_NoSH O (p_CellId , tsc_UL_DPCH1)			
216		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
217		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
218		+ It_ReleaseCommonCh			2.
219		+ It_Release_BCCH			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
220		+ ts_SetCellCfg (
		p_CellId,			
		cell_NotConfigured)			
221		[(tcv_TmpCellInfo.cellConfig =			
		cell_DCH_DSCH_PS)]			
222		+ It_RelSRB1_4			
223		+ ts_CRLC_Rel (tsc_CellDedicated,			
		tsc_RB20)			
224		+ ts_CMAC_Rel (tsc_CellDedicated,			
		tsc_DL_DPCH1)			
225		+ ts_CMAC_Rel (tsc_CellDedicated,			
		tsc_UL_DPCH1)			
226		+ ts_CPHY_TrChRelDCH_NoSHO (
		p_CellId , tsc_DL_DPCH1)			
227		+ ts_CPHY_TrChRelDCH_NoSHO (
		p_CellId , tsc_UL_DPCH1)			
228		+ ts_SS_StopRL (p_CellId ,			
		tsc_DL_DPCH1)			
229		+ ts_SS_StopRL (p_CellId ,			
		tsc_UL_DPCH1)			
230		+ ts_CMAC_Rel			
		(tsc_CellDedicated,			
		tsc_DL_PDSCH1)			
231		+ ts_CPHY_TrChRelNonDch (
		p_CellId , tsc_DL_PDSCH1)			
232		+ ts_SS_StopRL (p_CellId ,			
		tsc_DL_PDSCH1)			
233		+ It_ReleaseCommonCh			
234		+ It_Release_BCCH			
235		+ ts_SetCellCfg (
		p_CellId,			
		cell_NotConfigured)			
236		[(tcv_TmpCellInfo.cellConfig =			
		cell_DCH_DSCH_CS_PS)]			
237		+ It_RelSRB1_4			
238		+ ts_CRLC_Rel (tsc_CellDedicated,			
		tsc_RB10)			
239		+ ts_CRLC_Rel (tsc_CellDedicated,			
		tsc_RB11)			
240		+ ts_CRLC_Rel (tsc_CellDedicated,			
		tsc_RB12)			
241		+ ts_CRLC_Rel (tsc_CellDedicated,			
		tsc_RB20)			
242		+ ts_CMAC_Rel (tsc_CellDedicated,			
		tsc_DL_DPCH1)			
243		+ ts_CMAC_Rel (tsc_CellDedicated,			
		tsc_UL_DPCH1)			
244		+ ts_CPHY_TrChRelDCH_NoSHO			
		(p_CellId , tsc_DL_DPCH1)			
245		+ ts_CPHY_TrChRelDCH_NoSHO			
		(p_CellId , tsc_UL_DPCH1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
246		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
247		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
248		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_PDSCH1)			
249		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_DL_PDSCH1)			
250		+ ts_SS_StopRL (p_CellId , tsc_DL_PDSCH1)			
251		+ lt_ReleaseCommonCh			
252		+ lt_Release_BCCH			
253		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
254		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH)]			
255		+ lt_RelSRB1_4			
256		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
257		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)			
258		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
259		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH2)			
260		+ ts_CRLC_Rel (p_CellId , tsc_RB0)			2.
261		+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)			
262		+ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
263		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
264		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
265		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)			
266		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH1)			
267		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
268		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
269		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)			
270		+ ts_CPHY_TrChRelN onDch (p_CellId , tsc_S_CCPCH2)			
271		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH2)			
272		+ ts_SS_StopRL (p_CellId , tsc_PICH2)			
273		+ It_ReleaseComm onCh			
274		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPC H2)			
275		+ ts_CPHY_Tr ChRelNonDc h (p_CellId , tsc_S_CCP CH2)			
276		+ ts_SS_Sto pRL (p_CellId , tsc_S_CC PCH2)			
277		+ ts_SS_S topRL (p_CellId , tsc_PIC H2)			
278		+ It_Relea se_BC CH			
279		+ ts_Se tCellC fg (p_Cell Id, cell_N otCo nfigur ed)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
280		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_N oConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_ NoConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]			
281		+ It_RelSRB1_4			
282		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
283		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)			
284		+ ts_CRLC_Rel (p_CellId, tsc_RB29)			
285		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
286		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH_RAB)			
287		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			
288		+ ts_CRLC_Rel (p_CellId, tsc_RB0)			2.
289		+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)			
290		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
291		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
292		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
293		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)			
294		+ ts_CPHY_TrChRelNonD ch (p_CellId , tsc_S_CCPCH1)			
295		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
296		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
297		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)			
298		+ ts_CPHY_TrChR elNonDch (p_CellId , tsc_S_CCPCH2)			
299		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH 2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
300		+ ts_CMAC_Rel (p_CellId, tsc_S_CCPC H3)			
301		+ ts_CPHY_Tr ChRelNonDc h (p_CellId ,			
302		tsc_S_CCP CH3)			
303		+ ts_SS_Sto pRL (
304		p_CellId , tsc_S_CC PCH3)			
305		+ lt_Releas e_BCCH			
306		+ ts_Set CellCfg (p_Celll d, cell_No tConfig ured)			
307		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_N oConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]			
308		+ lt_RelSRB1_4			
309		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
310		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)			
311		+ ts_CRLC_Rel (p_CellId, tsc_RB30)			
312		+ ts_CRLC_Rel (p_CellId, tsc_RB29)			
313		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
314		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH_RAB)			
315		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			
316		+ ts_CRLC_Rel (p_CellId, tsc_RB0)			2.
317		+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)			
318		+ts_CPHY_TrChRelNonDch (
319		p_CellId , tsc_PRACH1)			
320		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
318		+ ts_SS_StopRL (
319		p_CellId , tsc_AICH1)			
320		+ ts_CMAC_Rel			
		(p_CellId,			
		tsc_S_CCPCH1)			
		+			
		ts_CPHY_TrChRelNon			
		Dch (p_CellId ,			
		tsc_S_CCPCH1)			
321		+ ts_SS_StopRL (
		p_CellId ,			
		tsc_S_CCPCH1)			
322		+ ts_SS_StopRL (
		p_CellId ,			
		tsc_PICH1)			
323		+ ts_CMAC_Rel			
		(p_CellId,			
		tsc_S_CCPCH2)			
324		+ts_CPHY_TrC			
		hRelNonDch(
		p_CellId ,			
		tsc_S_CCPCH			
		2)			
325		+			
		ts_SS_StopR			
		L (p_CellId ,			
		tsc_S_CCPC			
		H2)			
326		+			
		ts_CMAC_R			
		el (p_CellId,			
		tsc_S_CCP			
		CH3)			
327		+			
		ts_CPHY_			
		TrChRelNo			
		nDch(
		p_CellId ,			
		tsc_S_CC			
		PCH3)			
328		+			
		ts_SS_S			
		topRL (
		p_CellId ,			
		tsc_S_C			
		CPCH3)			
329		+			
		It_Relea			
		se_BC			
		CH			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
330		+ ts_Se tCellC fg (p_Cell Id, cell_N otCo nfigur ed)			
331		[TRUE]			
		It_Release_BCCH			
332		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH)			
333		+ ts_CMAC_Rel (p_CellId , tsc_P_CCPCH)			
334		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_P_CCPCH)			
335		+ ts_SS_StopRL (p_CellId , tsc_S_SCH)			
336		+ ts_SS_StopRL (p_CellId , tsc_P_SCH)			
337		+ ts_SS_StopRL (p_CellId , tsc_P_CCPCH)			
338		+ ts_SS_StopRL (p_CellId , tsc_P_CPICH)			
339		CPHY ! CPHY_Cell_Release_REQ	ca_CPHY_Cell_Release_RE Q(p_CellId)		
340		CPHY ? CPHY_Cell_Release_CNF	ca_CPHY_Cell_Release_CN F(p_CellId)		
		It_ReleaseCommonCh			
341		+ ts_CRLC_Rel (p_CellId , tsc_RB0)			2.
342		+ ts_CMAC_Rel (p_CellId , tsc_PRACH1)			
343		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
344		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
345		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
346		+ ts_CRLC_Rel (p_CellId , tsc_RB_PCCH)			3.
347		+ ts_CMAC_Rel (p_CellId , tsc_S_CCPCH1)			
348		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH1)			
349		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
350		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
		It_RelSRB1_4			
351		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB1)			1.
352		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB2)			
353		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB3)			
354		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB4)			

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Test Step Dynamic Behaviour	
Detailed Comments	: 1. Release DPCH 2. Release PRACH 3. Release S-CCPCH

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RelDPCH (p_CellId : INTEGER) Group : BasicM_SS_Configuration_Steps/ Objective : To release the DPCH channel. Default : SS_Def Comments : The following channels need to be removed: physical channels: DPCH; transport channels: DCH logical channels: DCCH; and signalling radio bearer: signalling bearers on DCH radio access bearer on DCH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB)]			
3		+ It_RelSRB1_4			
4		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
5		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
6		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
7		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
8		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
9		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
10		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech)]			
11		+ It_RelSRB1_4			
12		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
13		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
14		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB12)			
15		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
16		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
17		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
18		+ ts_CPHY_TrChRelDCH_NoSHO(p_CellId , tsc_UL_DPCH1)			
19		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
20		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
21		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		+ lt_RelSRB1_4			
23		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
24		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
25		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
26		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
27		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
28		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
29		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
30		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB)]			
31		+ lt_RelSRB1_4			
32		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
33		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
34		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
35		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
36		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
37		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
38		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
39		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB)]			
40		+ lt_RelSRB1_4			
41		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB21)			
42		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
43		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
44		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
45		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
46		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
47		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
48		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49		+ lt_RelSRB1_4			
50		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
51		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB21)			
52		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
53		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
54		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
55		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
56		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
57		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
58		[(tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis)]			
59		+ lt_RelSRB1_4			
60		+ lt_ReleaseRLC_RB			
61		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
62		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
63		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
64		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
65		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
66		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
67		[(tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn)]			
68		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			
69		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
70		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB_DCCH_DCH_MAC)			
71		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
72		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
73		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
74		+ ts_CPHY_TrChRelDCH_NoSHO(p_CellId , tsc_DL_DPCH1)			
75		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
76		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
77		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
78		[(tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig =cell_DCH_2_PS_Call)]			
79		+ It_RelSRB1_4			
80		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
81		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB22)			
82		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
83		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
84		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
85		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
86		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
87		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
88		[(tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)]			
89		+ It_RelSRB1_4			
90		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
91		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
92		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
93		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
94		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
95		+ ts_CPHY_TrChRelDCH_NoSHO(p_CellId , tsc_UL_DPCH1)			
96		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
97		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
98		[(tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
99		+ lt_RelSRB1_4			
100		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
101		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
102		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB12)			
103		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
104		+ ts_CMAL_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
105		+ ts_CMAL_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
106		+ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
107		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
108		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
109		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
110		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB_HS)]			
111		+ lt_RelSRB1_4			
112		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
113		+ ts_CMAL_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
114		+ ts_CMAL_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
115		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
116		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
117		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
118		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
119	ERR	[TRUE]		I	
		lt_ReleaseRLC_RB			
120		[(tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis)]			
121		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB_AM_15_RLC)			
122		[(tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis)]			
123		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB_AM_7_RLC)			
124		[(tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis)]			
125		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB_UM_15_RLC)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
126		[(tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis)]			1.
127		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB_UM_7_RLC)			
		It_RelSRB1_4			
128		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			
129		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
130		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
131		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_StopRL(p_CellId : INTEGER; p_PhyCH : PhysicalChannelIdentity) Group : BasicM_SS_Configuration_Steps/ Objective : To stop transmission and receiving on the specified physical channel Default : SS_Def Comments : To release (stop transmission and receiving) the specified physical channel Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY!CPHY_RL_Release_REQ	ca_RL_RelReq(p_CellId, p_PhyCH)		
2		CPHY?CPHY_RL_Release_CNF	ca_RL_RelCnf(p_CellId, p_PhyCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitializeSIB11_SIB12 (p_CellID : INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To assign tcv_SIB11 and tcv_SIB12 Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellID)			
2		[tcv_NumOfPLMN = 1]			Default I
3		+It_1Or2PLMN			PLMN test case
4		[tcv_NumOfPLMN = 2]			2 PLMN test case
5		+It_1Or2PLMN			
6		[tcv_NumOfPLMN = 3]			3 PLMN test case
7		+It_3PLMN			
8		[TRUE]		(I)	Test step not designed for this
9		It_1Or2PLMN			
10		[p_CellID = tsc_CellA] (tcv_SIB11 := cb_SIB11_Def (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
11		[p_CellID = tsc_CellB]			
12		(tcv_SIB11 := cb_SIB11_Def (tcv_CellInfoB, tcv_CellInfoA, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
13		[p_CellID = tsc_CellC]			
14		(tcv_SIB11 := cb_SIB11_Def (tcv_CellInfoC, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
15		[p_CellID = tsc_CellD]			
16		(tcv_SIB11 := cb_SIB11_Freq2 (tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Freq2)			
17		[p_CellID = tsc_CellE]			
18		(tcv_SIB11 := cb_SIB11_Freq2 (tcv_CellInfoE, tcv_CellInfoD, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Freq2)			
19		[p_CellID = tsc_CellF]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		(tcv_SIB11 := cb_SIB11_Freq2 (tcv_CellInfoF, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Freq2)			
21		[p_CellID = tsc_CellG]			
22		(tcv_SIB11 := cb_SIB11_Def (tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
23		[p_CellID = tsc_CellH]			
24		(tcv_SIB11 := cb_SIB11_Def (tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
25		[TRUE]		I	no such cell
		It_3PLMN			
26		[p_CellID = tsc_CellA]			
27		(tcv_SIB11 := cb_SIB11_Freq3_PLMN1Or2 (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Def)			
28		[p_CellID = tsc_CellB]			
29		(tcv_SIB11 := cb_SIB11_Freq3_PLMN1Or2 (tcv_CellInfoB, tcv_CellInfoA, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Def)			
30		[p_CellID = tsc_CellC]			
31		(tcv_SIB11 := cb_SIB11_Freq3_PLMN1Or2 (tcv_CellInfoC, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Def)			
32		[p_CellID = tsc_CellD]			
33		(tcv_SIB11 := cb_SIB11_Freq3_PLMN1Or2(tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Freq2)			
34		[p_CellID = tsc_CellE]			
35		(tcv_SIB11 := cb_SIB11_Freq3_PLMN1Or2 (tcv_CellInfoE, tcv_CellInfoD, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Freq2)			
36		[p_CellID = tsc_CellF]			
37		(tcv_SIB11 := cb_SIB11_Freq3_PLMN1Or2 (tcv_CellInfoF, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cb_SIB12_Freq2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		[p_CellID = tsc_CellG]			
39		(tcv_SIB11 := cb_SIB11_Freq3_PLMN3 (tcv_CellInfoG, tcv_CellInfoH,tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
40		[p_CellID = tsc_CellH]			
41		(tcv_SIB11 := cb_SIB11_Freq3_PLMN3 (tcv_CellInfoH, tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cb_SIB12_Def)			
42		[TRUE]		I	no such cell
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitializeSIB2AndSIB18(p_CellInfo: CellInfoCfg) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To initialize tcv_SIB2 and tcv_SIB18 Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB2 := c_SIB2_Def (p_CellInfo))			
2		[tcv_NumOfPLMN = 1]			Default I
3		(tcv_SIB18 := c_SIB18_Def(p_CellInfo))			PLMN test case
4		[tcv_NumOfPLMN = 2]			2 PLMN Test Case
5		+ It_Init2PLMN			
6		[tcv_NumOfPLMN = 3]			3 PLMN Test case
7		+ It_Init3PLMN			
8		[TRUE]		(I)	The test step not designed for this
9		It_Init2PLMN [(p_CellInfo.cellId = tsc_CellA) OR (p_CellInfo.cellId = tsc_CellB) OR (p_CellInfo.cellId = tsc_CellC) OR (p_CellInfo.cellId = tsc_CellG) OR (p_CellInfo.cellId = tsc_CellH)]			PLMN Group 1 cells, Hence MCC and MNC of Cell D used
10		(tcv_SIB18 := c_SIB18_2PLMN(tcv_CellInfoD))			
11		[TRUE]			PLMN Group 2 cells, Hence MCC and MNC of Cell A used
12		(tcv_SIB18 := c_SIB18_2PLMN(tcv_CellInfoA)) It_Init3PLMN			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		[(p_CellInfo.cellId = tsc_CellA) OR (p_CellInfo.cellId = tsc_CellB) OR (p_CellInfo.cellId = tsc_CellC)]			PLMN Group 1 cells, Hence MCC and MNC of Cell D and G used
14		(tcv_SIB18 := c_SIB18_3PLMN(tcv_CellInfoD, tcv_CellInfoG))			
15		[(p_CellInfo.cellId = tsc_CellD) OR (p_CellInfo.cellId = tsc_CellE) OR (p_CellInfo.cellId = tsc_CellF)]			PLMN Group 2 cells, Hence MCC and MNC of Cell A and G used
16		(tcv_SIB18 := c_SIB18_3PLMN(tcv_CellInfoA, tcv_CellInfoG))			
17		[TRUE]			PLMN Group 3 cells, Hence MCC and MNC of Cell A and D used
18		(tcv_SIB18 := c_SIB18_3PLMN(tcv_CellInfoA, tcv_CellInfoD))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendDefSysInfo (p_CellId: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To broadcast default system information. Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_UTRAN_GERAN_Paralnit(p_CellId)			ts_SetT mpCellIn fo done already in ts_UTR AN_GE RAN_Pa ralnit
2		+ts_CellDependentPara(p_CellId)			
3		+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)			
4		+ ts_InitializeSIB11_SIB12 (p_CellId)			
5		[px_RAT = fdd]			
6		+ts_SendNoSegDefSchedul(p_CellId)			
7		+ts_SendSIB1 (cb_SIB1_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
8		+ts_SendSIB2 (tcv_SIB2 , p_CellId, tsc_Now)			
9		+ts_SendSIB3(tcv_SIB3, p_CellId, tsc_Now)			
10		+ts_SendSIB4(tcv_SIB4, p_CellId, tsc_Now)			
11		+ts_SendSIB5(cb_SIB5_Def(tcv _TmpCellInfo), p_CellId, tsc_Now)			
12		+ts_SendSIB6(cb_SIB6_Def(tc v_TmpCellInfo), p_CellId, tsc_Now)			
13		+ts_SendSIB7(c_SIB7_Def, p_CellId, tsc_Now)			
14		+ts_SendSIB11(tcv_SIB11, p_CellId, tsc_Now)			
15		+ts_SendSIB12(tcv_SIB12, p_CellId, tsc_Now)			
16		+ts_SendSIB18(tcv_SIB18, p_CellId, tsc_Now)			
17		+ts_SendSB1_DefSch edul(tcv_SB1, p_CellId, tsc_Now)			
18		+ts_SendMIB(tcv_MI B, p_CellId, tsc_Now)			
19	ERR1	[px_RAT = tdd]		I	
20	ERR2	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendNoSegDefSchedul(p_CellId : INTEGER)					
Group : BasicM_SysInfoHandling_Steps/Default/					
Objective : To deliver the system information message with NoSegment to SS on the frames on which there is no any SIB/MIB/SB scheduled					
Default : InitOtherwiseFail					
Comments : Current scheduling assumption: Repetition period: 64 frames; Not scheduled positions: frame 54 (SIB_POS 27). Above unscheduled positions can be used for other SIBs later, if so this test Step shall be modified accordingly.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_Scheduling(p_CellId, 6, 27, tsc_Now)			pos = 27
2		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
3		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSB1_DefSchedul (p_SB: SysInfoTypeSB1; p_CellId : INTEGER; p_Timing : INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SysInfoTypeSB1 to SS Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation (			1.
2		o_SIB_PER_Encoding (sB1 : p_SB)))			
3		[tcv_Segs.segCount =1]			3.
4		+ts_Scheduling(p_CellId, 4, 1, p_Timing)			
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId,		4.
6		+It_CompleteSIB(schedulingBlock1)	tsc_RB_BCCH)		
7		+ts_ChangeSB1_ValueTag			
8		(tcv_MIB.sibSb_ReferenceList.[0].sched			
9		uling := c_SB1_Schedul1,			
10		tcv_SB1_ValueTagChanged := FALSE)			
11		[tcv_Segs.segCount <>1]		I	2.
12		It_CompleteSIB(p_SIBType : SIB_Type)			
		[LENGTH_OF(tcv_Segs.seg1) = 226]			
		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId,		4.
			tsc_RB_BCCH,		
			cs_SIB_MsgCmpl(
			p_SIBType, tcv_Segs.seg1))		
		[LENGTH_OF(tcv_Segs.seg1) <> 226]			
		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId,		4.
			tsc_RB_BCCH,		
			cs_SIB_MsgCmplList1(
			p_SIBType, tcv_Segs.seg1))		
Detailed Comments : 1. Unaligned PER encoding of the SB1 then segmentation. 2. The result of segmentation shall be one segment for the SB1 (current assumption). 3. Send the scheduling info to SS.(one segment; REP=16; POS=1). 4. Construct the system information message containing the first segment of SB1 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB1 (p_SIB: SysInfoType1; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIBType1 to SS Default : InitOtherwiseFail Comments : SIB1 is concatenated with SIB2. system information on air changes imediatly if p_Timing => 512. change of system information on air starts at the frame number = p_Timing. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB1 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB1: p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB2 : tcv_SIB2))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 11, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 1, tcv_Segs.seg1, systemInformationBlockType 2, tcv_Segs.seg2))		4.
7		(tcv_MIB.sibSb_ReferenceList.[1].sibSb_T ype.sysInfoType1 := (tcv_MIB.sibSb_ReferenceList.[1].sibSb_T ype.sysInfoType1) MOD 256 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new SIB1 value to tcv_SIB1, unaligned PER encoding of the SIB1 and SIB2. 2. The concatenated SIB1 and SIB2 is too long . 3. Send the scheduling info to SS. one segment: REP=64, POS=11. 4. Construct the system information message containing completeList of SIB1+SIB2 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB11(p_SIB: SysInfoType11; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIBType11 to SS Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB11 : p_SIB)))			1.
2		[tcv_Segs.segCount >3]		I	2.
3		[tcv_Segs.segCount <=3]			
4		[tcv_Segs.segCount = 1]			
5		(tcv_SB1.sib_ReferenceList.[2].sib_Type.sysl nfoType11 := (tcv_SB1.sib_ReferenceList.[2].sib_Type.sysl nfoType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[2].scheduling := c_SIB11_Schedul1)			
6		+ts_ChangeSB1_ValueTag			
7		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			3.
8		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
9		+It_CompleteSIB(systemInformationBl ockType11)			4.
10		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			5.
11		CMAC?CMAC_SYSINFO_Config _CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
13		+ts_Scheduling(p_CellId, 6, 31, p_Timing)			8.
14		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
16		[tcv_Segs.segCount = 2]			
17		(tcv_SB1.sib_ReferenceList.[2].sib_Type.sysl nfoType11 := (tcv_SB1.sib_ReferenceList.[2].sib_Type.sysl nfoType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[2].scheduling := c_SIB11_Schedul2)			
18		+ts_ChangeSB1_ValueTag			
19		+ts_Scheduling(p_CellId, 6, 31, p_Timing)			8.
20		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
21		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
22		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType11, 2, tcv_Segs.seg1))		4.
25		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			5.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		[LENGTH_OF(tcv_Segs.seg2) <= 214]			
28		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
29		[TRUE]			
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
31		[tcv_Segs.segCount = 3]			
32		(tcv_SB1.sib_ReferenceList.[2].sib_Type.sysInfoType11 := (tcv_SB1.sib_ReferenceList.[2].sib_Type.sysInfoType11) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[2].scheduling := c_SIB11_Schedul3)			
33		+ts_ChangeSB1_ValueTag			
34		+ts_Scheduling(p_CellId, 6, 30, p_Timing)			5.
35		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType11, 1, tcv_Segs.seg2))		7.
37		+ts_Scheduling(p_CellId, 6, 29, p_Timing)			3.
38		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
39		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType11, 3, tcv_Segs.seg1))		4.
40		+ts_Scheduling(p_CellId, 6, 31, p_Timing)			8.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		[LENGTH_OF(tcv_Segs.seg3) <= 214]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(syst emInformationBlockType11, 2, tcv_Segs.seg3))		9.
44		[TRUE]			
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInf ormationBlockType11, 2, tcv_Segs.seg3))		9.
46		It_CompleteSIB(p_SIBType : SIB_Type) [LENGTH_OF(tcv_Segs.seg1) = 226]			
47		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
48		[TRUE]			
49		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SIB11 then segmentation. 2. The result of segmentation shall be one or two or three segments for the SIB11 (current assumption). 3. Send the scheduling info to SS. one segment: REP=64, POS=29. 4. Construct the system information message containing first segment of SIB11 and send it to SS. 5. Send the scheduling info to SS. one segment: REP=64, POS=30. 6. Send no segment system information message to SS. 7. Construct the system information message containing the second segment of SIB11 and send it to SS. 8. Send the scheduling info segment to SS. one segment: REP=64, POS=31. 9. Construct the system information message containing the third segment of SIB11 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB12(p_SIB: SysInfoType12; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIBType12 to SS Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB12 : p_SIB)))			1.
2		[tcv_Segs.segCount >3]		I	2.
3		[tcv_Segs.segCount <=3]			
4		[tcv_Segs.segCount = 1]			
5		(tcv_SB1.sib_ReferenceList.[3].sib_Type.sysl nfoType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.sysl nfoType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul1)			
6		+ts_ChangeSB1_ValueTag			
7		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			3.
8		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
9		+It_CompleteSIB(systemInformationBl ockType12)			4.
10		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			5.
11		CMAC?CMAC_SYSINFO_Config _CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
13		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			8.
14		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
16		[tcv_Segs.segCount = 2]			
17		(tcv_SB1.sib_ReferenceList.[3].sib_Type.sysl nfoType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.sysl nfoType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul2)			
18		+ts_ChangeSB1_ValueTag			
19		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			8.
20		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
21		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
22		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType12, 2, tcv_Segs.seg1))		4.
25		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			5.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		[LENGTH_OF(tcv_Segs.seg2) <= 214]			
28		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType12, 1, tcv_Segs.seg2))		7.
29		[TRUE]			
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType12, 1, tcv_Segs.seg2))		7.
31		[tcv_Segs.segCount = 3]			
32		(tcv_SB1.sib_ReferenceList.[3].sib_Type.sysInfoType12 := (tcv_SB1.sib_ReferenceList.[3].sib_Type.sysInfoType12) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[3].scheduling := c_SIB12_Schedul3)			
33		+ts_ChangeSB1_ValueTag			
34		+ts_Scheduling(p_CellId, 6, 14, p_Timing)			5.
35		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType12, 1, tcv_Segs.seg2))		7.
37		+ts_Scheduling(p_CellId, 6, 13, p_Timing)			3.
38		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
39		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType12, 3, tcv_Segs.seg1))		4.
40		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			8.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		[LENGTH_OF(tcv_Segs.seg3) <= 214]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType12, 2, tcv_Segs.seg3))		9.
44		[TRUE]			
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType12, 2, tcv_Segs.seg3))		9.
46		[TRUE]			
47		It_CompleteSIB(p_SIBType : SIB_Type)			
48		[LENGTH_OF(tcv_Segs.seg1) = 226]			
48		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
49		[TRUE]			
50		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SIB12 then segmentation. 2. The result of segmentation shall be one or two or three segments for the SIB12 (current assumption). 3. Send the scheduling info segment to SS. one segment: REP=64, POS=13 . 4. Construct the system information message containing the first segment of SIB12 and send it to SS. 5. Send the scheduling info segment to SS. one segment: REP=64, POS=14. 6. Send no segment system information message to SS. 7. Construct the system information message containing the second segment of SIB12 and send it to SS. 8. Send the scheduling info to SS. one segment: REP=64, POS=15 . 9. Construct the system information message containing the third segment of SIB12 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB18 (p_SIB: SysInfoType18; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIB18 to SS Default : InitOtherwiseFail Comments : SIB18 is concatenated with SIB7, default scheduling described in 3GPP TS 34.123-3 clause 8.4.3 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB18 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB18 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB7 : tcv_SIB7))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) > 201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 18, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg2, systemInformationBlockType 18, tcv_Segs.seg1))		4.
7		(tcv_SB1.sib_ReferenceList.[4].sib_Type.sysInfoType18 := (tcv_SB1.sib_ReferenceList.[4].sib_Type.sysInfoType18) MOD 4 + 1)			
8		+ts_ChangeSB1_ValueTag			
Detailed Comments : 1. save the new value of SIB18, unaligned PER encoding of the SIB7 and SIB18. 2. The concatenated SIB7 and SIB18 is too long. 3. Send the scheduling info to SS. one segment: REP=64, POS=18. 4. Construct the system information message containing SIB18 + SIB7 and sent to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB2 (p_SIB: SysInfoType2; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIB2 to SS Default : InitOtherwiseFail Comments : SIB2 is concatenated with SIB1 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB2 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB2 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB1 : tcv_SIB1))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 11, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq (p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2 (systemInformationBlockType 1, tcv_Segs.seg2, systemInformationBlockType 2, tcv_Segs.seg1))		4.
7		(tcv_MIB.sibSb_ReferenceList.[2].sibSb_T ype.sysInfoType2 := (tcv_MIB.sibSb_ReferenceList.[2].sibSb_T ype.sysInfoType2) MOD 4 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new SIB2 value to tcv_SIB2, unaligned PER encoding of the SIB1 and SIB2. 2. The concatenated SIB1 and SIB2 is too long. 3. Send the scheduling info to SS. one segment, REP=64, POS=11. 4. Construct the system information message containing SIB2 + SIB1 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB3(p_SIB: SysInfoType3; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIB3 to SS Default : InitOtherwiseFail Comments : SIB3 is concatenated with SIB7. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB3 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB3 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB7 : tcv_SIB7))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 10, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg2, systemInformationBlockType 3, tcv_Segs.seg1))		4.
7		(tcv_MIB.sibSb_ReferenceList.[3].sibSb_Type.sysInfoType3 := (tcv_MIB.sibSb_ReferenceList.[3].sibSb_Type.sysInfoType3) MOD 4 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new value of SIB3 to tcv_SIB3, unaligned PER encoding of the SIB3 and SIB7. 2. The concatenated SIB3 and SIB7 is too long. 3. Send the scheduling info to SS. one segment; REP=64, POS=10. 4. Construct the system information message containing SIB3 + SIB7 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB4(p_SIB: SysInfoType4; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIB4 to SS Default : InitOtherwiseFail Comments : SIB4 is concatenated with SIB7 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_SIB4 := p_SIB, tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB4 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB7 : tcv_SIB7))			1.
2		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) > 201]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 26, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
6		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg2, systemInformationBlockType 4, tcv_Segs.seg1))		4.
7		(tcv_MIB.sibSb_ReferenceList.[4].sibSb_Type.sysInfoType4 := (tcv_MIB.sibSb_ReferenceList.[4].sibSb_Type.sysInfoType4) MOD 4 + 1)			
8		+ts_ChangeMIB_ValueTag			
Detailed Comments : 1. Save the new value of SIB3 to tcv_SIB3, unaligned PER encoding of the SIB3 and SIB7. 2. The concatenated SIB4 and SIB7 is too long. 3. Send the scheduling info to SS. one segment; REP=64, POS=10. 4. Construct the system information message containing SIB4 + SIB7 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB5 (p_SIB: SysInfoType5; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIBType5 to SS Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation (o_SIB_PER_Encoding (sIB5 : p_SIB)))			1.
2		[tcv_Segs.segCount >4]		I	2.
3		[tcv_Segs.segCount <=4]			
4		[tcv_Segs.segCount = 1]			
5		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			3.
6		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
7		+lt_CompleteSIB(systemInformationBlock Type5)			4.
8		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			5.
9		CMAC?CMAC_SYSINFO_Config_C NF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
10		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
11		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			8.
12		CMAC?CMAC_SYSINFO_Confi g_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
13		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
14		+ts_Scheduling(p_CellId, 6, 23, p_Timing)			10.
15		CMAC?CMAC_SYSINFO_ Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
16		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
17		(tcv_MIB.sibSb_Referen ceList.[5].sibSb_Type.sys InfoType5 := (tcv_MIB.sibSb_Referen ceList.[5].sibSb_Type.sys InfoType5) MOD 4 + 1, tcv_MIB.sibSb_Referenc eList.[5].scheduling := c_SIB5_Schedul1)			
18		+ts_ChangeMIB_Value Tag			
19		[tcv_Segs.segCount = 2]			
20		(tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type .sysInfoType5 := (tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type .sysInfoType5) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[5].scheduling := c_SIB5_Schedul2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		+ts_ChangeMIB_ValueTag			
22		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			8.
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
25		+ts_Scheduling(p_CellId, 6, 23, p_Timing)			10.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
28		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			3.
29		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType5, 2, tcv_Segs.seg1))		4.
31		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			5.
32		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
33		[LENGTH_OF(tcv_Segs.seg2) <= 214]			
34		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType5, 1, tcv_Segs.seg2))		7.
35		[TRUE]			
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType5, 1, tcv_Segs.seg2))		7.
37		[tcv_Segs.segCount = 3]			
38		(tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type.sysInfoType5 := (tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type.sysInfoType5) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[5].scheduling := c_SIB5_Schedul3)			
39		+ts_ChangeMIB_ValueTag			
40		+ts_Scheduling(p_CellId, 6, 23, p_Timing)			10.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			3.
44		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType5, 3, tcv_Segs.seg1))		4.
46		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			5.
47		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
48		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType5, 1, tcv_Segs.seg2))		7.
49		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			8.
50		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
51		[LENGTH_OF(tcv_Segs.seg3) <= 214]			
52		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType5, 2, tcv_Segs.seg3))		9.
53		[TRUE]			
54		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType5, 2, tcv_Segs.seg3))		9.
55		[tcv_Segs.segCount = 4]			
56		(tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type.sysInfoType5 := (tcv_MIB.sibSb_ReferenceList.[5].sibSb_Type.sysInfoType5) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[5].scheduling := c_SIB5_Schedul4)			
57		+ts_ChangeMIB_ValueTag			
58		+ts_Scheduling(p_CellId, 6, 19, p_Timing)			3.
59		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
60		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType5, 4, tcv_Segs.seg1))		4.
61		+ts_Scheduling(p_CellId, 6, 21, p_Timing)			5.
62		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
63		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType5, 1, tcv_Segs.seg2))		7.
64		+ts_Scheduling(p_CellId, 6, 22, p_Timing)			8.
65		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
66		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType5, 2, tcv_Segs.seg3))		9.
67		+ts_Scheduling(p_CellId, 6, 23, p_Timing)			10.
68		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
69		[LENGTH_OF(tcv_Segs.seg4) <= 214]			
70		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType5, 3, tcv_Segs.seg4))		11.
71		[TRUE]			
72		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType5, 3, tcv_Segs.seg4))		11.
73		It_CompleteSIB(p_SIBType : SIB_Type) [LENGTH_OF(tcv_Segs.seg1) = 226]			
74		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
75		[TRUE]			
76		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SIB5 then segmentation. 2. The result of segmentation shall be less than 5 segments for the SIB5 (current assumption). 3. Send the scheduling info segment to SS. one segment: REP=64, POS=19. 4. Construct the system information message containing the first segment of SIB5 and send it to SS. 5. Send the scheduling info segment to SS. one segment: REP=64, POS=21. 6. Send no segment system information message to SS. 7. Construct the system information message containing the second segment of SIB5 and send it to SS. 8. Send the scheduling info to SS. one segment: REP=64, POS=22. 9. Construct the system information message containing the third segment of SIB5 and send it to SS. 10. Send the scheduling info to SS. one segment: REP=64, POS=23. 11. Construct the system information message containing the fourth segment of SIB5 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB6(p_SIB: SysInfoType6; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIBType6 to SS Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB6 : p_SIB)))			1.
2		[tcv_Segs.segCount >4]		I	2.
3		[tcv_Segs.segCount <=4]			
4		[tcv_Segs.segCount = 1]			
5		(tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul1)			
6		+ts_ChangeSB1_ValueTag			
7		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			3.
8		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
9		+It_CompleteSIB(systemInformationBl ockType6)			4.
10		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			5.
11		CMAC?CMAC_SYSINFO_Config _CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
12		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
13		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			8.
14		CMAC?CMAC_SYSINFO_C onfig_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
15		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
16		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			10.
17		CMAC?CMAC_SYSINF O_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
18		TM!RLC_TR_DATA_RE Q	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
19		[tcv_Segs.segCount = 2]			
20		(tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.sysI nfoType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul2)			
21		+ts_ChangeSB1_ValueTag			
22		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			8.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
24		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
25		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			10.
26		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
27		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
28		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			3.
29		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
30		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType6, 2, tcv_Segs.seg1))		4.
31		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			5.
32		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
33		[LENGTH_OF(tcv_Segs.seg2) <= 214]			
34		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
35		[TRUE]			
36		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
37		[tcv_Segs.segCount = 3]			
38		(tcv_SB1.sib_ReferenceList.[0].sib_Type.systemInformationType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.systemInformationType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul3)			
39		+ts_ChangeSB1_ValueTag			
40		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			10.
41		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
42		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		6.
43		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
45		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType6, 3, tcv_Segs.seg1))		4.
46		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			5.
47		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
48		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
49		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			8.
50		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
51		[LENGTH_OF(tcv_Segs.seg3) <= 214]			
52		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType6, 2, tcv_Segs.seg3))		9.
53		[TRUE]			
54		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType6, 2, tcv_Segs.seg3))		9.
55		[tcv_Segs.segCount = 4]			
56		(tcv_SB1.sib_ReferenceList.[0].sib_Type.sysInfoType6 := (tcv_SB1.sib_ReferenceList.[0].sib_Type.sysInfoType6) MOD 4 + 1, tcv_SB1.sib_ReferenceList.[0].scheduling := c_SIB6_Schedul4)			
57		+ts_ChangeSB1_ValueTag			
58		+ts_Scheduling(p_CellId, 6, 3, p_Timing)			3.
59		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
60		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgFirst(systemInformationBlockType6, 4, tcv_Segs.seg1))		4.
61		+ts_Scheduling(p_CellId, 6, 5, p_Timing)			5.
62		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
63		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType6, 1, tcv_Segs.seg2))		7.
64		+ts_Scheduling(p_CellId, 6, 6, p_Timing)			5.
65		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
66		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgSubsequent(systemInformationBlockType6, 2, tcv_Segs.seg3))		7.
67		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			10.
68		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
69		[LENGTH_OF(tcv_Segs.seg4) <= 214]			
70		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLastShort(systemInformationBlockType6, 3, tcv_Segs.seg4))		11.
71		[TRUE]			
72		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgLast(systemInformationBlockType6, 3, tcv_Segs.seg4))		11.
73		It_CompleteSIB(p_SIBType : SIB_Type) [LENGTH_OF(tcv_Segs.seg1) = 226]			
74		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
75		[TRUE]			
76		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the SIB6 then segmentation. 2. The result of segmentation shall be one or two or three or four segments for the SIB6 (current assumption). 3. Send the scheduling info to SS. one segment: REP=64, POS=3. 4. Construct the system information message containing the first segment of SIB6 and send it to SS. 5. Send the scheduling info to SS. one segment: REP=64, POS=5. 6. Send no segment system information message to SS. 7. Construct the system information message containing the second segment of SIB6 and send it to SS. 8. Send the scheduling info to SS. one segment: REP=64, POS=6. 9. Construct the system information message containing the third segment of SIB6 and send it to SS. 10. Send the scheduling info to SS. one segment: REP=64, POS=7. 11. Construct the system information message containing the fourth segment of SIB6 and send it to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSIB7(p_SIB: SysInfoType7; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/Default/ Objective : To deliver the SIB7 to SS Default : InitOtherwiseFail Comments : single SIB7 or concatenated with SIB3 or SIB4 or SIB18, default scheduling described in 3GPP TS 34.123-3 clause 8.4.3 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB7 : p_SIB)), tcv_SIB7 := p_SIB)			1.
2		[tcv_Segs.segCount <>1]		I	2.
3		[tcv_Segs.segCount =1]			3.
4		+ts_Scheduling(p_CellId, 6, 2, p_Timing)			3.
5		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		4.
6		+It_CompleteSIB(systemInformationBlockType7)			4.
7		+It_ConcatWithSIB3			
8		+It_ConcatWithSIB18			
9		+It_ConcatWithSIB4			
		It_CompleteSIB(p_SIBType : SIB_Type)			
10		[LENGTH_OF(tcv_Segs.seg1) = 226]			
11		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl(p_SIBType, tcv_Segs.seg1))		4.
12		[TRUE]			
13		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
		It_ConcatWithSIB3			
14		(tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB7 : p_SIB), tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB3 : tcv_SIB3))			5.
15		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	6.
16		[TRUE]			
17		+ts_Scheduling(p_CellId, 6, 10, p_Timing)			7.
18		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
19		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg1, systemInformationBlockType 3, tcv_Segs.seg2))		8.
		It_ConcatWithSIB18			
20		(tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB18 : tcv_SIB18))			9.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	10.
22		[TRUE]			
23		+ts_Scheduling(p_CellId, 6, 18, p_Timing)			11.
24		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
25		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg1, systemInformationBlockType 18, tcv_Segs.seg2))		12.
26		It_ConcatWithSIB4 (tcv_Segs.seg2 := o_SIB_PER_Encoding (sIB4 : tcv_SIB4))			13.
27		[(LENGTH_OF(tcv_Segs.seg1) + LENGTH_OF(tcv_Segs.seg2)) >201]		I	14.
28		[TRUE]			
29		+ts_Scheduling(p_CellId, 6, 26, p_Timing)			15.
30		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
31		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList2(systemInformationBlockType 7, tcv_Segs.seg1, systemInformationBlockType 4, tcv_Segs.seg2))		16.
<p>Detailed Comments : 1. save the new value of SIB7, unaligned PER encoding of the SIB7 then segmentation. 2. The result of segmentation shall be one segment for the SIB7 (current assumption). 3. Send the scheduling info to SS. one segment: REP=64, POS=2. 4. Construct the system information message containing SIB7 and send it to SS. 5. unaligned PER encoding of the SIB7 and SIB3. 6. concatenated SIB7 and SIB3 is too long. 7. Send the scheduling info to SS. one segment: REP=64, POS=10. 8. Construct the system information message containing SIB7 + SIB3 and send it to SS. 9. unaligned PER encoding of the SIB18. 10. concatenated SIB7 and SIB18 is too long. 11. Send the scheduling info to SS. one segment: REP=64, POS=18. 12. Construct the system information message containing SIB7 + SIB18 and send it to SS. 13. unaligned PER encoding of the SIB4. 14. concatenated SIB7 and SIB4 is too long. 15. Send the scheduling info to SS. one segment: REP=64, POS=26. 16. Construct the system information message containing SIB7 + SIB4 and send it to SS.</p> <p>In system information broadcasting, SIB7 is concatenated with SIB3, SIB4, and SIB18, the assignment tcv_SIB7 := p_SIB in line 1 is to provide a communication mechanism between ts_SendSIB7 and ts_SendSIB4, ts_SendSIB3, ts_SendSIB18. Normally the ts_SendSIB7 is called in the preamble part of the test case to establish the default system information broadcasting. If in the test body the contents of SIB7 need be changed and afterwards SIB3 or SIB4 or SIB18 needs also be changed, the ts_SendSIB7 will be called again with a new SIB7 value and ts_SendSIB3 or ts_SendSIB4 or ts_SendSIB18 will also be called again with new SIB value, in the new call of ts_SendSIB3 or ts_SendSIB4 or ts_SendSIB18 new SIB7 value, which was used in the new call of ts_SendSIB7, shall be used. the assignment tcv_SIB7 := p_SIB in line 1 is to provide this new value for ts_SendSIB3 or ts_SendSIB4 or ts_SendSIB18.</p>					

Test Step Dynamic Behaviour					
Test Step Name : ts_CellDependentPara (p_CellID : INTEGER) Group : BasicM_SysInfoHandling_Steps/ Objective : To set cell dependent parameters Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellID)			
2		[p_CellID = tsc_CellA]			
3		(tcv_SIB3.cellIdentity := tsc_CellIdCellA, tcv_SIB4.cellIdentity := tsc_CellIdCellA)			
4		[p_CellID = tsc_CellB]			
5		(tcv_SIB3.cellIdentity := tsc_CellIdCellB, tcv_SIB4.cellIdentity := tsc_CellIdCellB)			
6		[p_CellID = tsc_CellC]			
7		(tcv_SIB3.cellIdentity := tsc_CellIdCellC, tcv_SIB4.cellIdentity := tsc_CellIdCellC)			
8		[p_CellID = tsc_CellD]			
9		(tcv_SIB3.cellIdentity := tsc_CellIdCellD, tcv_SIB4.cellIdentity := tsc_CellIdCellD)			
10		[p_CellID = tsc_CellE]			
11		(tcv_SIB3.cellIdentity := tsc_CellIdCellE, tcv_SIB4.cellIdentity := tsc_CellIdCellE)			
12		[p_CellID = tsc_CellF]			
13		(tcv_SIB3.cellIdentity := tsc_CellIdCellF, tcv_SIB4.cellIdentity := tsc_CellIdCellF)			
14		[p_CellID = tsc_CellG]			
15		(tcv_SIB3.cellIdentity := tsc_CellIdCellG, tcv_SIB4.cellIdentity := tsc_CellIdCellG)			
16		[p_CellID = tsc_CellH]			
17		(tcv_SIB3.cellIdentity := tsc_CellIdCellH, tcv_SIB4.cellIdentity := tsc_CellIdCellH)			
18		[TRUE]		I	no such cell
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ChangeMIB_ValueTag Group : BasicM_SysInfoHandling_Steps/ Objective : To increment MIBValueTag if tcv_MIB_ValueTagChanged = FALSE. Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_MIB_ValueTagChanged = FALSE]			
2		(tcv_MIB.mib_ValueTag := (tcv_MIB.mib_ValueTag) MOD 8 + 1, tcv_MIB_ValueTagChanged := TRUE)			
3		[tcv_MIB_ValueTagChanged = TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ChangeSB1_ValueTag Group : BasicM_SysInfoHandling_Steps/ Objective : To increment SB1ValueTag if tcv_SB1_ValueTagChanged = FALSE. Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_SB1_ValueTagChanged = FALSE]			
2		(tcv_SB1_ValueTag := (tcv_MIB.sibSb_ReferenceList.[0].sibSb_Type.sysInfoTypeSB1) MOD 4 + 1, tcv_MIB.sibSb_ReferenceList.[0].sibSb_Type.sysInfoTypeSB1 := tcv_SB1_ValueTag, tcv_SB1_ValueTagChanged := TRUE)			
3		+ts_ChangeMIB_ValueTag			
4		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_Scheduling(p_CellId: INTEGER; p_REP : INTEGER; p_POS : INTEGER; p_Timing : INTEGER) Group : BasicM_SysInfoHandling_Steps/ Objective : Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_BCCH_ModifyTime := p_Timing)			
2		[p_Timing >= 512]			
3		CMAC!CMAC_SYSINFO_Config_REQ	ca_SchedulNow (p_CellId, p_REP, p_POS)		
4		[p_Timing <= 511]			
5		CMAC!CMAC_SYSINFO_Config_REQ	ca_SchedulLater(p_CellId, p_REP, p_POS, p_Timing)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendMIB(p_MIB: MasterInformationBlock; p_CellId : INTEGER; p_Timing: INTEGER) Group : BasicM_SysInfoHandling_Steps/ Objective : To deliver the MIB to SS Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		(tcv_MIB.plmn_Type.gsm_MAP.plmn_Identity.mcc := o_HexToDigitsMCC (tcv_TmpCellInfo.mcc), tcv_MIB.plmn_Type.gsm_MAP.plmn_Identity.mnc := o_HexToDigitsMNC (tcv_TmpCellInfo.mnc))			
3		(tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (mIB : tcv_MIB)))			1.
4		[tcv_Segs.segCount <>1]		I	2.
5		[tcv_Segs.segCount =1]			
6		+ts_Scheduling(p_CellId, 3, 0, p_Timing)			3.
7		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf (p_CellId, tsc_RB_BCCH)		
8		+It_CompleteSIB(masterInformationBlock)			4.
9		(tcv_MIB_ValueTagChanged := FALSE)			
		It_CompleteSIB(p_SIBType : SIB_Type)			
10		[LENGTH_OF(tcv_Segs.seg1) = 226]			
11		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmpl (p_SIBType, tcv_Segs.seg1))		4.
12		[TRUE]			
13		TM!RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgCmplList1(p_SIBType, tcv_Segs.seg1))		4.
Detailed Comments : 1. Unaligned PER encoding of the MIB then segmentation. 2. The result of segmentation shall be one segment for the MIB (current assumption). 3. Send the scheduling info to SS.(one segment; REP=8; POS=0) 4. Construct the system information message containing MIB and sent to SS.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendSysInfoChangeInd_InFACHConfig(p_CellId:INTEGER; p_mib_valuetag: MIB_ValueTag) Group : BasicM_SysInfoHandling_Steps/ Objective : Transmit System Information change indication message with IE "BCCH modification info" on the BCCH, to inform UE the change of System Information. Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCo nn)]			If BCCH on FACH is configured then send System info change indication

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
3		TM ! RLC_TR_DATA_REQ	cas_SysInfoChangeInd (p_CellId, tsc_RB_BCCH_FACH, cs_SysInfoChangeInd (p_mib_valuetag))		SS sends SYSTE M INFORM ATION CHANG E INDICA TION message containi ng IE "BCCH modifica tion info"on the BCCH to inform UE the change of system informati on. do nothing
4		[TRUE]			do nothing
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SendPage1_ModifySI (<p> p_CellId:INTEGER; p_mib_valuetag: MIB_ValueTag) </p> Group : BasicM_SysInfoHandling_Steps/ Objective : Transmit Paging Type 1 with IE "BCCH modification info" on the PCCH, to informed UE the change of System Information. and Transmit System Information change indication message with IE "BCCH modification info" on the BCCH, to inform UE the change of System Information. Default : InitOtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_Delay(tsc_WaitBeforePaging)			Give delay before paging type1
2		+ts_CMAC_Pag1_Cfg(p_CellId)			
3		TM ! RLC_TR_DATA_REQ	cas_PagingType1 (<p> p_CellId, tsc_RB_PCCH, cs_RRC_PagingType1_ModifySI (<p> p_mib_valuetag) </p>) </p>		SS sends PAGING TYPE1 message containing IE "BCCH modification info"on the PCCH to inform UE the change of system information.
4		+ts_SendSysInfoChangeInd_InFACHConfig(<p> p_CellId, p_mib_valuetag) </p>			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_UTRAN_GERAN_ParaInit (p_CellId: INTEGER) Group : BasicM_SysInfoHandling_Steps/ Objective : Initialize default parameters for different region Default : InitOtherwiseFail Comments : currently only UTRAN and UTRAN/GERAN are defined Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_UTRAN_GERAN = "UTRAN and GERAN"]			
3		(tcv_SIB3 := cb_SIB3_DefUTRAN_GERAN (tcv_TmpCellInfo), tcv_SIB4 := cb_SIB4_DefUTRAN_GERAN (tcv_TmpCellInfo))			
4		[px_UTRAN_GERAN = "UTRAN only"]			
5		(tcv_SIB3 := cb_SIB3_DefUTRAN (tcv_TmpCellInfo), tcv_SIB4 := cb_SIB4_DefUTRAN (tcv_TmpCellInfo))			
6		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour						
Test Step Name : ts_TC_ActivateRB_TestMode (p_CellId: INTEGER)						
Group : BasicM_TC_Steps/						
Objective : Activate UE radio bearer test mode.						
Default : NAS_OtherwiseFailActRB_TM						
Comments : tcv_TestModeActivated is assigned to TRUE to keep track that RB test mode has been activated during the test case; to be used in the postamble.						
Description :						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
1	TSP1	[tcv_CN_Domain = cs_domain]	ca_DataReq (tsc_CellDedicated, tsc_RB3, c_ActivateRB_TestMode)	(P)	1. no answer received	
2		Dc!RRC_DataReq START t_Dly (tsc_TT01)				
3		Dc?RRC_DataInd CANCEL t_Dly				
4	TSF1	(tcv_RB_TestModeActivated := TRUE)		(F)		
5		?TIMEOUT t_Dly				
6	TSP2	[tcv_CN_Domain = ps_domain]	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, c_ActivateRB_TestMode)	(P)	1. no answer received	
7		Dc!RRC_DataReq START t_Dly (tsc_TT01)				
8		Dc?RRC_DataInd CANCEL t_Dly				
9	TSF2	(tcv_RB_TestModeActivated := TRUE)		(F)		
10		?TIMEOUT t_Dly				
Detailed Comments :						

Test Step Dynamic Behaviour					
Test Step Name : ts_TC_CloseUE_TestLoop(p_CellId: INTEGER; p_UE_TestLoopMode: UE_TestLoopMode; p_UE_TestLoopMode1LB_Setup: UE_TestLoopMode1LB_Setup)					
Group : BasicM_TC_Steps/					
Objective : Close UE test loop					
Default : NAS_OtherwiseFail					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_CN_Domain = cs_domain]			
2		Dc!RRC_DataReq START t_Dly (tsc_TT01)	ca_DataReq(tsc_CellDedicated, tsc_RB3,c_CloseUE_TestLo op(p_UE_TestLoopMode, p_UE_TestLoopMode1LB_ Setup))		
3	TSP1	Dc?RRC_DataInd CANCEL t_Dly	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_CloseUE_TestLoopCmpl)	(P)	
4	TSF1	?TIMEOUT t_Dly		(F)	no answer received
5		[tcv_CN_Domain = ps_domain]			
6		Dc!RRC_DataReq START t_Dly (tsc_TT01)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3,c_CloseUE_TestLo op(p_UE_TestLoopMode, p_UE_TestLoopMode1LB_ Setup))		
7	TSP2	Dc?RRC_DataInd CANCEL t_Dly	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, c_CloseUE_TestLoopCmpl)	(P)	
8	TSF2	?TIMEOUT t_Dly		(F)	no answer received
Detailed Comments :					

Test Step Dynamic Behaviour						
Test Step Name : ts_TC_DeactivateRB_TestMode(p_CellId: INTEGER)						
Group : BasicM_TC_Steps/						
Objective : Deactivate UE radio bearer test mode						
Default : NAS_OtherwiseFail						
Comments :						
Description :						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
1	TSP1	[tcv_CN_Domain = cs_domain]	ca_DataReq(tsc_CellDedicated, tsc_RB3,c_DeactivateRB_TestMode)	(P)	no answer received	
2		Dc!RRC_DataReq START t_Dly (tsc_TT01)				
3		Dc?RRC_DataInd CANCEL t_Dly				
4	TSF1	?TIMEOUT t_Dly	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_DeactivateRB_TestModeCmpl)	(F)		
5	TSP2	[tcv_CN_Domain = ps_domain]		(P)		
6		Dc!RRC_DataReq START t_Dly (tsc_TT01)				
7		Dc?RRC_DataInd CANCEL t_Dly				
8	TSF2	?TIMEOUT t_Dly	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_DeactivateRB_TestModeCmpl)	(F)		no answer received
Detailed Comments :						

Test Step Dynamic Behaviour					
Test Step Name : ts_TC_OpenUE_TestLoop(p_CellId: INTEGER)					
Group : BasicM_TC_Steps/					
Objective : Open UE test loop					
Default : NAS_OtherwiseFail					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP1	[tcv_CN_Domain = cs_domain]	ca_DataReq(tsc_CellDedicated, tsc_RB3,c_OpenUE_TestLo op)	(P)	no answer received
2		Dc!RRC_DataReq START t_Dly (tsc_TT01)			
3		Dc?RRC_DataInd CANCEL t_Dly			
4		?TIMEOUT t_Dly			
5	TSP2	[tcv_CN_Domain = ps_domain]	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3,c_OpenUE_TestLo op)	(P)	
6		Dc!RRC_DataReq START t_Dly (tsc_TT01)			
7		Dc?RRC_DataInd CANCEL t_Dly			
8		?TIMEOUT t_Dly			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_AT_TriggerGMM_Attach Group : BasicM_UT_Steps/ Objective : Trigger UE to start GMM Attach procedure via AT command +CGATT Default : UT_OtherwiseFail Comments : (see 3GPP 27.007 / 10.1.9) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CGATT=1<CR>")		
2		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_MMI_UE_PwrOff Group : BasicM_UT_Steps/ Objective : To make the operator power off the UE Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_UE_SwitchedOn = TRUE]			UE is ON
2		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please power off the UE")		
3		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
4		(tcv_UE_SwitchedOn := FALSE)			UE is now OFF
5		[TRUE]			UE is Already OFF
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_MMI_UE_PwrOn Group : BasicM_UT_Steps/ Objective : To make the operator power on the UE Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_UE_SwitchedOn = FALSE]			UE is OFF
2		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please power on the UE")		
3		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
4		(tcv_UE_SwitchedOn := TRUE)			UE is now ON
5		[TRUE]			UE is Already ON
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_MMI_UE_SwitchOff Group : BasicM_UT_Steps/ Objective : To make the operator switch off the UE Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_UE_SwitchedOn = TRUE]			UE is ON
2		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please switch off the UE")		
3		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
4		(tcv_UE_SwitchedOn := FALSE)			UE is now OFF
5		[TRUE]			UE is Already OFF
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_MMI_UE_SwitchOn Group : BasicM_UT_Steps/ Objective : To make the operator switch on the UE Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_UE_SwitchedOn = FALSE]			UE is OFF
2		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please switch on the UE")		
3		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
4		(tcv_UE_SwitchedOn := TRUE)			UE is now ON
5		[TRUE]			UE is Already ON
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_MMI_USIM_Insert Group : BasicM_UT_Steps/ Objective : To make the operator insert the USIM card Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please insert the USIM card into the UE")		
2		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_MMI_USIM_Remove Group : BasicM_UT_Steps/ Objective : To make the operator remove the USIM card Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please remove the USIM card from the UE")		
2		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : po_ConnectionAndSS_RelHS (p_CellId : INTEGER) Group : HSDPA_M_Steps/ Objective : To release the existing RRC connection and release the channels that are configured in the SS. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_HS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB_HS) OR (tcv_TmpCellInfo.cellConfig = cell_One_DTCH_HS_DSCH_MAC) OR (tcv_TmpCellInfo.cellConfig = cell_5_UM_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_Speech_WAMR) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_HS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_HS_DSCH)]			
3		+It_Send_RRC_ConnectionRelease			
4		+ts_SS_Rel_HS (p_CellId)			
5		[TRUE]			0.
6		+po_ConnectionAndSS_Rel_r5 (p_CellId)			
7		It_Send_RRC_ConnectionRelease			
8		[tcv_TmpCellInfo.cellConfig = cell_FACH_HS]			3.
		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H_r4 (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT))		
9		AM?RLC_AM_DATA_IND	car_RRC_ConnRelCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_ConnRelCm pl (tcv_RRC_Ti))	(P)	
10		+ ts_RRC_Delay (tsc_DelayAfterRRC_ConnRel)			
11		[TRUE]			2.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		(tcv_N308 := 1, tcv_K := 1)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
13		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H_r4 (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_N308))		
14		UM?RLC_UM_DATA_IND	car_RRC_ConnRelCmplUM(tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	
15		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			
16		It_RptRcvConnRel			UE sends RRC Connection Release Complete for N308 times
17	TSF2	START t_Dly			
18		? TIMEOUT t_Dly (tcv_K := tcv_N308 + 1)		(F)	
19	TSP2	UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	To stop the loop Retransmission
Detailed Comments : 0. The cell has not been configured, it shall not be released 1. cell_FACH state 2. cell_DCH state 3. No RRC connection is established 4. An RRC connection is established					

Test Step Dynamic Behaviour					
Test Step Name : po_ConnectionAndSS_RelsHS Group : HSDPA_M_Steps/ Objective : To release the existinge RRC connection and release the channels that are configured in the SS for all cells. Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ It_ReleaseCell (tsc_CellA)			
2		+ It_ReleaseCell (tsc_CellB)			
3		+ It_ReleaseCell (tsc_CellC)			
4		+ It_ReleaseCell (tsc_CellD)			
5		+ It_ReleaseCell (tsc_CellE)			
6		+ It_ReleaseCell (tsc_CellF)			
7		+ It_ReleaseCell (tsc_CellG)			
8		+ It_ReleaseCell (tsc_CellH)			
		It_ReleaseCell (p_CellId : INTEGER)			
9		+ ts_SetTmpCellInfo (p_CellId)			
10		[(tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_HS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB_HS) OR (tcv_TmpCellInfo.cellConfig = cell_One_DTCH_HS_DSCH_MAC) OR (tcv_TmpCellInfo.cellConfig = cell_5_UM_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_Speech_WAMR) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_HS_Init)]			0.
11		+ po_ConnectionAndSS_RelHS (p_CellId)			
12		[(tcv_TmpCellInfo.cellConfig <> cell_NotConfigured)]			1.
13		+ po_ConnectionAndSS_Rel (p_CellId)			
14		[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]			2.
Detailed Comments : 0. The cell has been configured with HS–DSCH, then it shall be released with the HS step 1. The cell has been configured without HS–DSCH, then it shall be released 2. The cell has not been configured					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_17_MO (p_CellId : INTEGER)					
Group : HSDPA_M_Steps/					
Objective :					
Default :					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour Configure lower tester
2		+pr_GotoState6_7_MO_HS (p_CellId)			
3		+ ts_RRC_RAB_EstPS_MO_P25 (p_CellId, FALSE)			
4		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_7_MO_HS (p_CellId :INTEGER) Group : HSDPA_M_Steps/ Objective : To bring UE to state 6-7 for PS HSDPA on cell_DCH using a MO call. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour
2		+ts_SS_CreateCellDCH_r5 (p_CellId)			Configure lower tester
3		+ts_SendDefSysInfo (p_CellId)			Sends the default system information in CellA
4		+ts_IdleUpdated_r5 (p_CellId)			Idle Update and bring UE to CELL_DCH state and release the connection again
5		+ts_AT_OrgPS_CallHSDPA (p_CellId)			
6		+ ts_RRC_ConnEstPS_MO_P5_P6_r5 (p_CellId)			
7		+ ts_RRC_NAS_SessionActPS_MO_P9_P10_HS (p_CellId)			
8	ERR1	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_7_MO_HS_NewSIB1 (<p> p_CellId : INTEGER; p_SIB : SysInfoType1) </p> Group : HSDPA_M_Steps/ Objective : To bring UE to state 6-7 for PS HSDPA on cell_DCH using a MO call (with a SIB1 different from the default). Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour
2		+ts_SS_CreateCellDCH_r5 (p_CellId)			Configure lower tester
3		+ts_SendDefSysInfo_NewSIB1 (p_CellId, p_SIB)			Sends the default system information in CellA
4		+ts_IdleUpdated_r5 (p_CellId)			Idle Update and bring UE to CELL_DCH state and release the connection again
5		+ts_AT_OrgPS_CallHSDPA (p_CellId)			
6		+ ts_RRC_ConnEstPS_MO_P5_P6_r5 (p_CellId)			
7		+ ts_RRC_NAS_SessionActPS_MO_P9_P10_HS (p_CellId)			
8	ERR1	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_AT_OrgPS_CallHSDPA (p_CellId : INTEGER) Group : HSDPA_M_Steps/ Objective : To trigger UE to originate a PDP context for HSDPA. The requested rate is set based on UE capability. Default : UT_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[pc_AT_SupportToInit_PS_Call = TRUE]			USE complete set of AT commands.
2		(tcv_AT_Cmd :=o_ConcatStrg(o_ConcatStrg("AT+CGDCONT=1,""IP"", "", o_ConcatStrg(o_ConcatStrg(tsc_AccessPtNameDCH, "", "", px_PDP_IP_AddrInfoDCH), "", 0, 0 <CR>"))			
3		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		
4		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
5		+ It_AT_SetQoS			
6		(tcv_AT_Cmd := "AT+CGACT=1,1<CR>")			
7		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		ACTIVATE PDP CONTEXT message for MO
8		[pc_AT_SupportToInit_PS_Call = FALSE]			USE only CGACT to initiate a call... ACTIVATE PDP CONTEXT message for MO
9		(tcv_AT_Cmd := "AT+CGACT=1,1<CR>")			
10		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		
11		It_AT_SetQoS +It_PrepareAT_CmdCGEQREQ			
12		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		
13		Ut ? AT_CmdCnf It_PrepareAT_CmdCGEQREQ	ca_AT_CmdCnf		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14	ERR1	+ It_IntractiveBackground			
15		+ It_UL_BitRate			
16		+ It_DL_BitRate			
17		+It_MaxSDU_Size			
18		It_IntractiveBackground			
19		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)] (tcv_AT_Cmd := ("AT+CGEQREQ=1,2"))			
20		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
21		(tcv_AT_Cmd := ("AT+CGEQREQ=1,3"))			
22		[TRUE]			
23		It_UL_BitRate			
24		[tcv_HS_Cfg.ul_DataRate = r384] (tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "384"))			
25		[tcv_HS_Cfg.ul_DataRate = r64]			
26		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "64"))			
27		[TRUE]			
28		It_DL_BitRate			
29		[(tcv_HS_Cfg.phyLayCategory = 1) OR (tcv_HS_Cfg.phyLayCategory = 2)] (tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "1200,,1"))			
30		[(tcv_HS_Cfg.phyLayCategory = 3) OR (tcv_HS_Cfg.phyLayCategory = 4) OR (tcv_HS_Cfg.phyLayCategory = 12)]			
31		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "1800,,1"))			
32		[(tcv_HS_Cfg.phyLayCategory = 5) OR (tcv_HS_Cfg.phyLayCategory = 6)]			
33		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "3600,,1"))			
34		[(tcv_HS_Cfg.phyLayCategory = 7) OR (tcv_HS_Cfg.phyLayCategory = 8)]			
35		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "7200,,1"))			
36		[(tcv_HS_Cfg.phyLayCategory = 9)]			
37		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "10000,,1"))			
38		[(tcv_HS_Cfg.phyLayCategory = 10)]			
39		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , "14000,,1"))			
40		[(tcv_HS_Cfg.phyLayCategory = 11)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
41	ERR3	(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , ",900,,,"1"))		I	
42		[TRUE]			
		lt_MaxSDU_Size			
43		[(tcv_HS_Cfg.maxSDU_Size = 320)]			
44		(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , ",320,","1E4","","1E5","",1,,3<CR>"))			
45		[(tcv_HS_Cfg.maxSDU_Size = 640)]			
46	ERR4	(tcv_AT_Cmd := o_ConcatStrg (tcv_AT_Cmd , ",640,","1E4","","1E5","",1,,3<CR>"))		I	
47		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_C3_CheckCellIDCH_HS (p_CellId : INTEGER)					
Group : HSDPA_M_Steps/					
Objective : Verify that UE is in CELL_DCH State.					
Default : RRC_Def1					
Comments :					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_RRC_Delay (
3		tsc_DelayBeforeRRC_ConnRel)			
4		[(tcv_TmpCellInfo.cellConfig =			
5		cell_DCH_HS_DSCH)]			
6		+ lt_C3_CheckCellIDCH_NoNAS			
7		[TRUE]			
8		+ ts_C3_CheckCellIDCH_NoNAS_r5 (
9		p_CellId)			
	lt_C3_CheckCellIDCH_NoNAS				
	+ ts_RRC_ConnRelNoSS_ReconfHS (p_CellId)				
	+ ts_SS_ReconfigRAB_ToSRB_HS (p_CellId)				
	+ ts_SetCellCfg (p_CellId,				
	cell_DCH_StandAloneSRB_NoConn)				
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitVariablesHS Group : HSDPA_M_Steps/ Objective : Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_CN_Domain := ps_domain, tcv_RAB_Id := tsc_RAB_DefPS_HS, tcv_RRC_RAB_Type := cell_DCH_HS_DSCH)			
2		[(pc_HSDSCH_UE_Category = 1) OR (pc_HSDSCH_UE_Category = 2)]			
3		(tcv_HS_Cfg.numberOfProcesses := 2)			
4		[(pc_HSDSCH_UE_Category = 3) OR (pc_HSDSCH_UE_Category = 4) OR (pc_HSDSCH_UE_Category = 11)]			
5		(tcv_HS_Cfg.numberOfProcesses := 3)			
6		[TRUE]			
7		(tcv_HS_Cfg.numberOfProcesses := 6)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_InitialiseDlyAndTrafficClass_HS Group : HSDPA_M_Steps/ Objective : Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_InitialiseDlyAndTrafficClass			
2		[(tcv_HS_Cfg.phyLayCategory = 1) OR			
3		(tcv_HS_Cfg.phyLayCategory = 2)] (tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Iv(tc v_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, '89'O, tcv_MaxSDUSize))			Downlin k bit rate=115 2 kbps (nearest smallest value from 1200kbp s)
4		[(tcv_HS_Cfg.phyLayCategory = 3) OR			
5		(tcv_HS_Cfg.phyLayCategory = 4) OR (tcv_HS_Cfg.phyLayCategory = 12)] (tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Iv(tc v_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, '89'O, tcv_MaxSDUSize))			Downlin k bit rate=179 2 kbps (nearest smallest value from 1800kbp s)
6		[(tcv_HS_Cfg.phyLayCategory = 5) OR			
7		(tcv_HS_Cfg.phyLayCategory = 6)] (tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Iv(tc v_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, '89'O, tcv_MaxSDUSize))			Downlin k bit rate=348 4 kbps (nearest smallest value from 3600kbp s)
8		[(tcv_HS_Cfg.phyLayCategory = 7) OR			
9		(tcv_HS_Cfg.phyLayCategory = 8)] (tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Iv(tc v_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, '89'O, tcv_MaxSDUSize))			Downlin k bit rate=716 8 kbps (nearest smallest value from 7200kbp s)
10		[(tcv_HS_Cfg.phyLayCategory = 9)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		(tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Ext(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, 'FE'O, tcv_MaxSDUSize, '58'O))			Downlin k bit rate=100 00 kbps
12		[(tcv_HS_Cfg.phyLayCategory = 10)]			
13		(tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Ext(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, 'FE'O, tcv_MaxSDUSize, '80'O))			Downlin k bit rate=140 00 kbps
14		[(tcv_HS_Cfg.phyLayCategory = 11)]			
15		(tcv_QoS_Iv := cs_QoS_InteractiveOrBackgroundMT_HS_Iv(tc v_DlyClass, tcv_TrafficClass, tcv_UL_BitRate, '89'O, tcv_MaxSDUSize))			Downlin k bit rate=896 kbps (nearest smallest value from 900kbps)
16	ERR1	[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnRelNoSS_ReconfHS (p_CellId : INTEGER) Group : HSDPA_M_Steps/ Objective : To release the existing RRC connection without reconfiguring the SS. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
2		(tcv_N308 := 1, tcv_K := 1)			
3		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H_r4(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_N308))		
4		UM?RLC_UM_DATA_IND	car_RRC_ConnRelCmplUM(tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	UE sends RRC Connection Release Complete for N308 times
5		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			
6		It_RptRcvConnRel			
7	TSF2	START t_Dly			(F)
8		? TIMEOUT t_Dly (tcv_K := tcv_N308 + 1)			
9	TSP2	UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	To stop the loop Retransmission
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_InitVariablesPS_HS Group : HSDPA_M_Steps/ Objective : Initialisation of Testcase variables for RRC testcases in the PS_domain Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_InitVariables			
2		+ ts_InitVariablesHS			
3		+ lt_RRC_InitServVarPS			
4		lt_RRC_InitServVarPS			
5		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
6		(tcv_RRC_PagingCau := terminatingInteractiveCall,			
7		tcv_RRC_EstCauMO := originatingInteractiveCall,			
8	ERR1	tcv_RRC_EstCauMT := terminatingInteractiveCall)		I	Parameter error
		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
		(tcv_RRC_PagingCau := terminatingBackgroundCall,			
		tcv_RRC_EstCauMO := originatingBackgroundCall,			
		tcv_RRC_EstCauMT := terminatingBackgroundCall)			
		[TRUE]			
Detailed Comments : 1. In the ps_domain with a cell_FACH configuration, the RAB configuration to be used is cell_FACH_PS					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_NAS_SessionActPS_MO_P9_P10_HS (p_CellId : INTEGER) Group : HSDPA_M_Steps/ Objective : NAS session activation procedure for PS HSDPA sessions Default : NAS_OtherwiseFail Comments : See 34.108 clause 7.4.2.4.2 tcv_RAB_Id is set to the value received from UE in the ACTIVATE PDP CONTEXT REQUEST message. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_GMM_Authentication(p_CellId)			Steps 1–2
2		+ ts_RRC_Security_r5(p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)			Steps 3–4
3		+ ts_InitialiseDlyAndTrafficClass			
4		+ It_InitBitRate			
5		+ It_ReceivePDP_Req			
6		+ ts_SetTI_Rsp (tcv_TI_R)			
7		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB]			
8		+ It_InitVaariaableForStaticAddress_DCH			
9		[tcv_TmpCellInfo.cellConfig = cell_FACH]			
10		+ It_InitVaariaableForStaticAddress_FACH			
11		It_InitVaariaableForStaticAddress_DCH			
12		[tcv_PktDataProtoAddr = (cr_PktDataProtoAddrMO_Iv_Len (o_IntToOct(LENGTH_OF((o_IA5_IP_ToOct (px_PDP_IP_AddrInfoDCH , TRUE))) + 2), 1), px_PDP_IP_AddrInfoDCH)]			
13		(tcv_StaticPDP_AddressReceived := TRUE)			
14		[TRUE]			
15		It_InitVaariaableForStaticAddress_FACH			
16		[tcv_PktDataProtoAddr = (cr_PktDataProtoAddrMO_Iv_Len (o_IntToOct(LENGTH_OF((o_IA5_IP_ToOct (px_PDP_IP_AddrInfoFACH , TRUE))) + 2), 1), px_PDP_IP_AddrInfoFACH)]			
17		(tcv_StaticPDP_AddressReceived := TRUE)			
18		[TRUE]			
19		It_ReceivePDP_Req			
20		[pc_AT_SupportToInit_PS_Call = TRUE]			IF call initiated by AT command, check QoS
21		[(tcv_HS_Cfg.phyLayCategory = 1) OR (tcv_HS_Cfg.phyLayCategory = 2)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_lv_r5(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , '89'O , tcv_MaxSDUSize)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=115 2 kbps (nearest smallest value from 1200kbp s)
20		[(tcv_HS_Cfg.phyLayCategory = 3) OR (tcv_HS_Cfg.phyLayCategory = 4) OR (tcv_HS_Cfg.phyLayCategory = 12)]			
21		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_lv_r5(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , '93'O , tcv_MaxSDUSize)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=179 2 kbps (nearest smallest value from 1800kbp s)
22		[(tcv_HS_Cfg.phyLayCategory = 5) OR (tcv_HS_Cfg.phyLayCategory = 6)]			
23		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_lv_r5(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , 'AF'O , tcv_MaxSDUSize)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=348 4 kbps (nearest smallest value from 3600kbp s)

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24		[(tcv_HS_Cfg.phyLayCategory = 7) OR (tcv_HS_Cfg.phyLayCategory = 8)]			
25		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_lv_r5(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , 'E7'O , tcv_MaxSDUSize)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=716 8 kbps (nearest smallest value from 7200kbp s)
26		[(tcv_HS_Cfg.phyLayCategory = 9)]			
27		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_HS_Ext (tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , 'FE'O , tcv_MaxSDUSize, '58'O)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=100 00 kbps
28		[(tcv_HS_Cfg.phyLayCategory = 10)]			
29		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_HS_Ext (tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , 'FE'O , tcv_MaxSDUSize, '80'O)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=140 00 kbps
30		[(tcv_HS_Cfg.phyLayCategory = 11)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nS API_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (cr_QoS_InterOrBackgrdM O_lv_r5(tcv_DlyClass, tcv_TrafficClass, tcv_UL_BitRate , '85'O , tcv_MaxSDUSize)))		Step 5 Receive PDP Context Activatio n Request 1. Downlin k bit rate=896 kbps (nearest smallest value from 900kbps)
32	ERR3	[TRUE]		I	
33		[pc_AT_SupportToInit_PS_Call = FALSE]			If by MMI call, then not check the QoS
34		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nSA PI_Value), 8))	car_PS_UplinkDirectTransfe r (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO (?))		Step 5 Receive PDP Context Activatio n Request 1.
35		It_InitBitRate			
36		+ It_UL_Bitrate			
		+ It_MaxSDU_Size			
		It_UL_Bitrate			
37		[tcv_HS_Cfg.ul_DataRate = r384]			
38		(tcv_UL_BitRate := '68'O)			
39		[tcv_HS_Cfg.ul_DataRate = r64]			
40		(tcv_UL_BitRate := '40'O)			
41	ERR1	[TRUE]		I	
		It_MaxSDU_Size			
42		[(tcv_HS_Cfg.maxSDU_Size = 320)]			
43		(tcv_MaxSDUSize := '20'O)			
44		[(tcv_HS_Cfg.maxSDU_Size = 640)]			
45		(tcv_MaxSDUSize := '40'O)			
46	ERR2	[TRUE]		I	
Detailed Comments : 1. Assign tcv_RAB_Id (BITSTRING[8]) with the NSAPI (BITSTRING[4]) value received in ACTIVATE PDP CONTEXT REQUEST message.					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_RAB_EstPS_MO_P25 (p_CellId : INTEGER; p_1RBMO : BOOLEAN)					
Group : HSDPA_M_Steps/					
Objective : Radio access bearer establishment procedure for HSDPA PS mobile originated calls.					
Default : NAS_OtherwiseFail					
Comments : p_1RBMO is set to TRUE if only 1 Radio Bearer Multiplexing Option is configured See 34.108 clause 7.4.2.6					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+lt_RRC_SetUpRAB	ca_AT_CmdCnf		Only 1 Radio Bearer Multiplexing Option is configured
2		+ts_SetCellCfg (p_CellId, cell_DCH_HS_DSCH)			
3		+ts_SetTI_Rsp (tcv_TI_R)			
4		+ ts_ReceiveActivatePDP_Accept_DCH_HS (p_CellId)			
5		Ut ? AT_CmdCnf			
6		+ ts_CheckHSDSCH_ConfiguredInUE (p_CellId)			
7		lt_RRC_SetUpRAB [p_1RBMO]			
8		+ts_CalculateActTime_r5 (p_CellId)			
9		+ts_RRC_SendRB_SetUpHS_1RBMO (p_CellId, tcv_RAB_Id, tcv_ActTime)			
10		[TRUE]			
11		+ ts_RRC_SetUpRAB_HS (p_CellId , tcv_RAB_Id, tcv_RRC_RAB_Type)			
Detailed Comments : NOTE: will be moved to a step in L3M					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveRB_SetupCmplHS (p_CellId : INTEGER; p_RbType: RB_ConfigType) Group : HSDPA_M_Steps/ Objective : To receive the RB Setup complete message and perform associated Security operations on SS Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3		[(p_RbType = cell_DCH_64kPS_RAB_SRB_HS) OR (p_RbType = cell_FACH_PS) OR (p_RbType = cell_DCH_HS_DSCH) OR (p_RbType = cell_DCH_Speech_WAMR) OR (p_RbType = cell_Four_DTCH_HS_CS_Init) OR (p_RbType = cell_Two_DTCH_HS_CS_Init) OR (p_RbType = cell_Four_DTCH_CS_HS_Init) OR (p_RbType = cell_DCH_2AM_HS_DSCH)]			If Rel5 extention
4		[(tcv_CellIndInfo.ps_cipheringStarted = TRUE) AND (tcv_CellIndInfo.recentSecureDomain = ps_domain)]			
5		+ It_CipheringStartedAM_RAB			
6		[(tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND (tcv_CellIndInfo.recentSecureDomain = cs_domain)]			
7		+ It_CipheringStartedTM_RAB			
8		[TRUE]			
9		+ It_CipheringNotStartedAM_RAB			
10		[(tcv_TmpCellInfo.cellConfig = cell_One_DTCH_HS_DSCH_MAC) OR (tcv_TmpCellInfo.cellConfig = cell_5_UM_DCH_HS_DSCH)]			
11	TSF5	? TIMEOUT t_WaitMS		(F)	
12	TSP5	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cr_RRC_RB_SetUpCmplNo StartVal (tcv_RRC_Ti, OMIT,OMIT))	(P)	No start value No RB UL cipher
13		[TRUE]			If not R5 extention, call R99 step
14		+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , p_RbType) It_CipheringStartedAM_RAB			
15	TSF3	? TIMEOUT t_WaitMS		(F)	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16	TSP4	AM ?RLC_AM_DATA_IND (tcv_CellIndInfo.start_PS := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.start_V alue , tcv_CellIndInfo.uL_CipherMode := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.rb_UL_ CiphActivationTimeInfo) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, OMIT, *))	(P)	A new start value is provided A RB UL cipher is not present
17		+ lt_SS_CipheringAM_RAB_UL_DL (tcv_PS_AuthCK) lt_CipheringNotStartedAM_RAB			
18	TSF5	? TIMEOUT t_WaitMS		(F)	
19	TSP5	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cr_RRC_RB_SetUpCmplNo StartVal (tcv_RRC_Ti, OMIT,OMIT))	(P)	No start value No RB UL cipher
20		+ lt_SS_CipheringAM_RAB_UL_DL(OMIT)			
21	TSP6	AM ?RLC_AM_DATA_IND (tcv_CellIndInfo.start_PS := RLC_AM_DATA_IND.aM_message.uL_DCCH_Me ssage.message.radioBearerSetupComplete.start_V alue) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, OMIT, OMIT))	(P)	A new start value is provided
22		+ lt_SS_CipheringAM_RAB_UL_DL (OMIT) lt_SS_CipheringAM_RAB_UL_DL (p_KC : KeyCiphering)			
23		[(p_RbType = cell_DCH_HS_DSCH) OR (p_RbType = cell_DCH_64kPS_RAB_SRB_HS) OR (p_RbType = cell_Four_DTCH_CS_HS_Init) OR (p_RbType = cell_DCH_2AM_HS_DSCH)]			
24		+ lt_CRRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)			
25		(tcv_RLC_SeqNumDL_RB25 := 0 , tcv_RLC_SeqNumDL_RB17 := 0)			
26		+ ts_CRRLC_DL_CipherCfgRB_HS (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)			
27		+ ts_CRRLC_UL_CipherCfg_RAB (tcv_CN_Domain, cs_RB_ActTimeInfoList25 (0) ,notInc)			
28		[TRUE] lt_CRRLC_SecurityConfig (p_Hfn_LT: HyperFrameNumber ; p_KC_LT: KeyCiphering)			Not a supporte d sonfigua ration, Do nothing

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29		CRLC ! CRLC_SecurityMode_Config_REQ	ca_CRLC_SecurityModeCfg Req (tsc_CellDedicated , tcv_CellIndInfo.recentSecur eDomain, p_Hfn_LT , p_KC_LT, OMIT, OMIT)		Downloa d security keys for RLC. CRLC is configur ed with cellId -1 (tsc_Cell Dedicate d)
30		CRLC ? CRLC_SecurityMode_Config_CNF	ca_CRLC_SecurityModeCfg Cnf (tsc_CellDedicated)		
31		It_CipheringStartedTM_RAB + ts_CMAC_DownloadSecurityKey (tcv_AuthCK,			
32		OMIT, OMIT, tcv_CN_Domain, tcv_CellIndInfo.start_CS) + ts_CMAC_UL_DL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_ActTime ,notInc)			
33	TSF1	? TIMEOUT t_WaitMS		(F)	A new start value is provided
34	TSP2	AM ?RLC_AM_DATA_IND (tcv_CipherActTime := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.radioBearerSetupComplete.c ount_C_ActivationTime, tcv_CellIndInfo.start_CS := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.radioBearerSetupComplete.st art_Value) CANCEL t_WaitMS	car_RB_SetUpCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RB_SetUpCmpl (tcv_RRC_Ti, *, OMIT))	(P)	
35		+ts_CMAC_DownloadSecurityKey(tcv_Auth CK, OMIT, OMIT, tcv_CN_Domain, tcv_CellIndInfo.start_CS)			
36		+ ts_CMAC_UL_DL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_CipherActTime, incPerCFN_Cycle)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpHS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime: ActivationTime) Group : HSDPA_M_Steps/ Objective : To setup a RADIO BEARER cell_DCH_HS_DSCH and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : This Step is used by RLC test cases. See TS 34.108 clause 6.10.2.4.1.26 Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP	+ ts_SetTmpCellInfo (p_CellId)	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
2		+ It_SendRB_Setup			
3		AM ? RLC_AM_DATA_CNF			
4		+ ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Mo dify(p_CellId)			
5		+ ts_SS_RB25_AM_PS_Cfg (tsc_CellDedicated, 320)			
6		+ ts_RRC_ReceiveRB_SetupCmplHS (p_CellId , cell_DCH_HS_DSCH)			
		It_SendRB_Setup			
7		[tcv_HS_Cfg.ul_DataRate = r384]			
8		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)			
			cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cbs_108_RB_SetUpHS_Fro mDCH (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, p_RAB_Id, tcv_TmpCellInfo.ul_Scrambl ingCode, tcv_TmpCellInfo.priScrmCo de, tcv_HS_Cfg))		
9		[tcv_HS_Cfg.ul_DataRate = r64]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_108_RB_SetUpHS_Fro mDCH_UL_64k (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, p_RAB_Id, tcv_TmpCellInfo.uL_Scrambl ingCode, tcv_TmpCellInfo.priScrmCo de, tcv_HS_Cfg))		
Detailed Comments :					

Test Step Dynamic Behaviour							
Test Step Name : ts_RRC_SendRB_SetUpHS_1RBMO (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime: ActivationTime)							
Group : HSDPA_M_Steps/							
Objective : To setup a RADIO BEARER cell_DCH_HS_DSCH and to reconfigure the SS accordingly. Only 1 Radio Bearer Multiplexing Option is configured: DCH / HS-DSCH.							
Default : RRC_Def1							
Comments :							
Description :							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
1	TSP	+ ts_SetTmpCellInfo (p_CellId)	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)				
2		+ lt_SendRB_Setup					
3		AM ? RLC_AM_DATA_CNF					
4		+ ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Mo dify(p_CellId)					
5		+ ts_SS_RB25_AM_PS_Cfg (tsc_CellDedicated, 320)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_SetUpHS_FromDC H_1RBMO (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, p_RAB_Id, tcv_TmpCellInfo.ul_Scrambl ingCode, tcv_TmpCellInfo.priScrmCo de, tcv_HS_Cfg))				
6		+ ts_RRC_ReceiveRB_SetupCmplHS (p_CellId , cell_DCH_HS_DSCH)					
7		lt_SendRB_Setup					
8		[tcv_HS_Cfg.ul_DataRate = r384] AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)					
9		[tcv_HS_Cfg.ul_DataRate = r64]					

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_SetUpHS_FromDC H_UL_64k_1RBMO (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_ActTime, OMIT, tsc_NewHRNTI, p_RAB_Id, tcv_TmpCellInfo.ul_Scrambl ingCode, tcv_TmpCellInfo.priScrmCo de, tcv_HS_Cfg))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SetUpRAB_HS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_RB_ConfigType : RB_ConfigType) Group : HSDPA_M_Steps/ Objective : To setup a RADIO BEARER for different configuration and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_RB_ConfigType = cell_DCH_HS_DSCH]			
2		+ ts_CalculateActTime_r5 (p_CellId)			
3		+ts_RRC_SendRB_SetUpHS (p_CellId, p_RAB_Id, tcv_ActTime)			
4		+ ts_SetCellCfg (p_CellId, cell_DCH_HS_DSCH)			
5		[TRUE]			R99 branch
6		+ ts_RRC_SetUpRAB (p_CellId, p_RAB_Id, p_RB_ConfigType)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_ReceiveActivatePDP_Accept_DCH_HS (p_CellId :INTEGER) Group : HSDPA_M_Steps/ Objective : To establish mobile originated PDP Context. Default : NAS_OtherwiseFail Comments : This test step will send PDP Context Accept to the UE. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(tcv_Len:= LENGTH_OF((o_IA5_IP_ToOct (			Calculate the length field
2		px_PDP_IP_AddrInfoDCH , TRUE))) + 2) (tcv_LenBit:= o_IntToOct(tcv_Len, 1))			Convert length in INTEGER into bits
3		+ ts_InitialiseDlyAndTrafficClass_HS			
4		[pc_UMTS_GSM = TRUE]			
5		[pc_Interactive AND (
		px_RRC_PS_ServTested = ps_Interactive)			
]			
6		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address
7		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, tcv_QoS_Iv, cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		Send PDP Context Activation Accept, with LLC SAPI set as 3
8		[TRUE]			If Static PDP Address Received
9		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, tcv_QoS_Iv, OMIT))		Send PDP Context Activation Accept, with LLC SAPI set as 3

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
11		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address
12		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, tcv_QoS_lv, cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		Send PDP Context Activation Accept, with LLC SAPI set as 3
13		[TRUE]			If Static PDP Address Received
14		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, tcv_QoS_lv, OMIT))		Send PDP Context Activation Accept, with LLC SAPI set as 3
15	ERR1	[TRUE]		I	Parameter error
16		[pc_UMTS_GSM = FALSE]			
17		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
18		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, tcv_QoS_lv, cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)
20		[TRUE]			If Static PDP Address Received
21		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, tcv_QoS_lv, OMIT))		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)
22		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
23		[tcv_StaticPDP_AddressReceived = FALSE]			If Static PDP Address NOT Received , hence include PDP address
24		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, tcv_QoS_lv, cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		Send PDP Context Activatio n Accept, with LLC SAPI set as 0 (not assigned)

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		[TRUE]			If Static PDP Address Received
26		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT (tcv_TI_S, cs_LLC_SAPI_UMTS_v, tcv_QoS_Iv, OMIT))		Send PDP Context Activation Accept, with LLC SAPI set as 0 (not assigned)
27	ERR2	[TRUE]		I	Parameter error
Detailed Comments : Step1 : If we receive PDP Context Activation Request, once again before expiry of T3380, this means that UE has not accepted the PDP Context Accept or some problem at the UE side.					

Test Step Dynamic Behaviour					
Test Step Name : ts_CheckHSDSCH_NotConfiguredInUE (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : Verify that the UE has stopped HS-DSCH reception by checking that it does not send CQI reports. Default : RRC_Def1 Comments : This test step asks the SS to indicate the non-reception of one CQI report to the TTCN. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_Delay (500)			
2		CPHY ! CPHY_HS_DPCCH_CQI_REQ	ca_CQI_Reporting (p_CellId, 1)		
3		CPHY ? CPHY_HS_DPCCH_CQI_CNF	ca_CQI_ReportingCnf (p_CellId)		
4		START t_Dly (500)			
5	TSP1	CPHY ? CPHY_HS_DPCCH_CQI_IND CANCEL t_Dly	ca_CQI_ReportingInd (p_CellId)	(F)	
6	TSF1	? TIMEOUT t_Dly		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_Mac_DSize (p_CellId : INTEGER;p_MacQueue:MAC_hs_AddReconfQueue) Group : HSDPA_M_SS_Steps/ Objective : To configure SS toHS-DPA related RL, Transport and MAC DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_RL_Setup_REQ	ca_DL_HSPDSCH_Info (p_CellId, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSCH_PS_RAB (tcv_HS_Cfg.phyLayerCategory, tcv_HS_Cfg.hRNTI, c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(tcv_HS_Cfg)), FALSE, tcv_HS_Cfg.hs_SCCH_TxPo))		
2		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_HSPDSCH)		
3		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_InfoActNow (p_CellId, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (c_HARQ_Info(tcv_HS_Cfg.numberOfProcesses), c_SS_AddOrReconfMAC_dFlow (c_SS_MAC_hs_AddReconfQueue (p_MacQueue)), tcv_HS_Cfg.ackNackRepetitionFactor))		
4		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_HSPDSCH)		
5		+ ts_SS_HS_TFRC_ExplicitCfg(p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_HSPDSCH, c_UE_Info (OMIT, OMIT), c_TrChInfoHSSCCH (c_HS_DSCHMacdFlows(c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddRecon fQueue (p_MacQueue)), tcv_HS_Cfg.ackNackRepeti tionFactor)), c_TrLogMappingDL_MAC_ HS) ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CMAL_HS_New_RNTI_Reconf (p_urnti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING) Group : HSDPA_M_SS_Steps/ Objective : Reconfigure MAC when a new U_RNTI or C_RNTI is assigned to UE.(HS RAB being Used) Default : SS_Def Comments : U-RNTI and C-RNTI are not required on DPCH. U-RNTI and C-RNTI is necessary when DCCH/DTCH mapped on S-CCPCH. C-RNTI is necessary when DCCH/DTCH mapped on PRACH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size_r5 (p_urnti)			
3		+ lt_CMAL_Reconf (p_urnti)			
4		lt_CMAL_Reconf (p_urnti: BOOLEAN)			
5		[p_urnti]			
6		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn)] CMAL ! CMAL_Config_REQ	ca_CMAL_ReconfigInfoAct Now (p_CellId , tsc_S_CCPCH1, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoPCH_FACH_PS , c_TrLogMappingPCH_FACH_PS)		SS has valid U-RNTI, C-RNTI is not valid
7		CMAL ? CMAL_Config_CNF	ca_CMAL_CfgCnf (p_CellId , tsc_S_CCPCH1)		
8		[tcv_TmpCellInfo.cellConfig = cell_FACH_HS]			
9		CMAL ! CMAL_Config_REQ	ca_CMAL_ReconfigInfoAct Now (p_CellId , tsc_S_CCPCH1, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoPCH_FACH_PS , cd_TrLogMappingPCH_FACH_PS_RB25)		SS has valid U-RNTI, C-RNTI is not valid
10		CMAL ? CMAL_Config_CNF	ca_CMAL_CfgCnf (p_CellId , tsc_S_CCPCH1)		
11		[TRUE]		I	
12		[NOT p_urnti]			
13		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DT CH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on PRACH
15		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)		
16		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_S_CCPCH1, c_UE_Info(OMIT, p_C_RNTI), c_TrChInfoPCH_FACH_PS , c_TrLogMappingPCH_FACH_PS)		
17		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH1)		
18		[tcv_TmpCellInfo.cellConfig = cell_FACH_HS]			SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on PRACH
19		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, cd_TrLogMappingRACH_DT CH_RB25)		
20		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)		
21		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_CellId , tsc_S_CCPCH1, c_UE_Info(OMIT, p_C_RNTI), c_TrChInfoPCH_FACH_PS , cd_TrLogMappingPCH_FACH_PS_RB25)		
22		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH1)		
23		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_DL_CipherCfgRB_HS (p_CipherMode: CipheringModeCommand; p_RbType : RB_ConfigType ;p_IncMode : RLC_IncMode) Group : HSDPA_M_SS_Steps/ Objective : Configure ciphering for RLC layer for configured AM/UM RAB's Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(p_RbType = cell_DCH_64kPS_RAB_SRB_HS) OR			
2		(p_RbType = cell_FACH_PS) OR			
3		(p_RbType = cell_DCH_HS_DSCH)]			
4		+ It_RLC_Activate (tsc_RB25,			
5		tcv_RLC_SeqNumDL_RB25)			
6		[p_RbType = cell_DCH_2AM_HS_DSCH]			
7		+ It_RLC_Activate (tsc_RB25,			
8		tcv_RLC_SeqNumDL_RB25)			
9		+ It_RLC_Activate (tsc_RB17,			
		tcv_RLC_SeqNumDL_RB17)			
		[TRUE]			
		+ ts_CRLC_DL_CipherCfgRB(p_CipherMode,			
		p_RbType, p_IncMode)			
		It_RLC_Activate (p_rblId : INTEGER ; p_SeqNum			
		: RLC_SequenceNumber)			
		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_DL_CipherActReq (tsc_CellDedicated ,		
			tcv_CellIndInfo.		
			recentSecureDomain ,		
			p_rblId , p_CipherMode,		
			p_SeqNum , p_IncMode)		
			ca_CRLC_CipherActCnf(ts		
			c_CellDedicated)		
		CRLC ? CRLC_Ciphering_Activate_CNF			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CheckHSDSCH_ConfiguredInUE (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : Verify that the UE has started HS-DSCH reception by checking that it sends CQI reports. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_Delay (500)			
2		CPHY ! CPHY_HS_DPCCH_CQI_REQ	ca_CQI_Reporting (p_CellId, 1)		
3		CPHY ? CPHY_HS_DPCCH_CQI_CNF	ca_CQI_ReportingCnf (p_CellId)		
4		START t_Dly (500)			
5	TSI1	CPHY ? CPHY_HS_DPCCH_CQI_IND CANCEL t_Dly	ca_CQI_ReportingInd0 (p_CellId)	(I)	
6	TSP1	CPHY ? CPHY_HS_DPCCH_CQI_IND CANCEL t_Dly	ca_CQI_ReportingInd (p_CellId)	(P)	
7	TSF1	? TIMEOUT t_Dly		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfDCH_HS_ToFACH (p_OldCellId , p_NewCellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To switch cell from DCH/HS-DSCH to FACH state. 1> Remove UL-DPCH and DL-DPCH in the old cell: CMAC-Rel (cell-1), CPHY-TrCh-Rel(old cell), CPHY-RL-Rel(old cell) Remove HS-DSCH related RL, Tran and MAC-H 2> Reconfigure CMAC (new cell): CCCH, PCCH, DCCH, DTCH The PS RB will be RB25 IF OldCellId and NewCellId are passed same, then it becomes a Reconfig step for one cell Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_NewCellId)			
2		[px_RAT = fdd]			
3		+ It_RelHS_PDSCH			
4		+ It_RelUL_DPCH			
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_NewCellId, tsc_PRACH1, c_UE_Info(OMIT, tcv_TmpCellInfo.cRNTI), cb_TrChInfoRACH1, cd_TrLogMappingRACH_DT CH_RB25)		
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_NewCellId, tsc_PRACH1)		
7		+ It_RelDL_DPCH			
8		+ ItCheckInterCell			
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoAct Now (p_NewCellId, tsc_S_CCPCH1, c_UE_Info(OMIT, tcv_TmpCellInfo.cRNTI), c_TrChInfoPCH_FACH_PS , cd_TrLogMappingPCH_FA CH_PS_RB25)		
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_NewCellId, tsc_S_CCPCH1)		
11		+It_SS_RB_BCCH_FACH_Cfg_Selectively			
12		+ ts_SetCellCfg(p_NewCellId, cell_FACH_HS)			
13	ERR1	[px_RAT = tdd]		I	
14	ERR2	[TRUE]		I	
		It_SS_RB_BCCH_FACH_Cfg_Selectively			
15		[p_OldCellId <> p_NewCellId]			
16		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated]			
17		+ts_SS_RB_BCCH_FACH_Cfg(p_NewCellId)			
18		[TRUE]			
19		[TRUE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		+ts_SS_RB_BCCH_FACH_Cfg(p_NewCellId)			
		It_RelUL_DPCH			
21		+ ts_CMAC_Rel (tsc_CellDedicated , tsc_UL_DPCH1)			
22		+ ts_CPHY_TrChRelDCH_NoSHO (p_OldCellId, tsc_UL_DPCH1)			
23		+ ts_SS_StopRL (p_OldCellId, tsc_UL_DPCH1)			
		It_RelDL_DPCH			
24		+ ts_CMAC_Rel (tsc_CellDedicated , tsc_DL_DPCH1)			
25		+ ts_CPHY_TrChRelDCH_NoSHO (p_OldCellId, tsc_DL_DPCH1)			
26		+ ts_SS_StopRL (p_OldCellId, tsc_DL_DPCH1)			
		It_RelHS_PDSCH			
27		+ts_CMAC_Rel (p_OldCellId, tsc_HSPDSCH)			
28		+ ts_CPHY_TrChRelNonDch (p_OldCellId, tsc_HSPDSCH)			
29		+ts_SS_StopRL (p_OldCellId, tsc_HSPDSCH)			
		ItCheckInterCell			
30		[p_OldCellId<> p_NewCellId]			If Inter cell HO
31		+ ts_SetCellCfg (p_OldCellId, cell_FACH_NoDedicated)			
32		[TRUE]			If cell is same
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfFACH_ToDCH_HS (p_OldCellId, p_NewCellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To switch cell from FACH to DCHWith HS_DSCH state: 1> reconfigure CMAC in the old cell: CMAC-Reconf(old cell) 2> create DPCH in the new cell: CPHY-RL-Setup (new cell), CPHY-TrCh-Config (new cell), CMAC-Config (Cell-1) This Step assumes that PS RAB created is RB25 This step if oldCellId and NewCellId is passed as same, will configure the same cell Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_OldCellId)			
2		[px_RAT = fdd]			
3		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfoAct Now (p_OldCellId , tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCCH to PCH + Map CCCH to FACH
4		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf (p_OldCellId , tsc_S_CCPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfoAct Now (p_OldCellId, tsc_PRACH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to RACH
6		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf (p_OldCellId, tsc_PRACH1)		
7		+ItCheckInterCell			
8		+ It_ConfigNewcell_DPCH_HSPDSC			
9		+ ts_SetCellCfg(p_NewCellId, cell_DCH_HS_DSCH)			
10	ERR1	[px_RAT = tdd]		I	
11	ERR2	[TRUE]		I	
		It_ConfigNewcell_DPCH_HSPDSC			
12		+ ts_SS_DL_DPCH_Cfg_HS (p_NewCellId)			
13		+ ts_SS_HS_DSCH_PDSCH_Cfg (p_NewCellId)			
14		+ ts_SS_UL_DPCH_Cfg_HS (p_NewCellId)			
		ItCheckInterCell			
15		[p_OldCellId<> p_NewCellId]			If Inter cell HO
16		+ ts_SetCellCfg (p_OldCellId, cell_FACH_NoDedicated)			
17		+ ts_SetTmpCellInfo (p_NewCellId)			
18		[TRUE]			If cell is same
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_HO_SS_ReconfFACH_ToDCH_Scrn_HS (p_OldCellId, p_NewCellId : INTEGER; p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf: SF512_AndCodeNumber) Group : HSDPA_M_SS_Steps/ Objective : To switch cell from FACH to DCHWith HS_DSCH state: (Specifying Secondary scrambling code & Spreading factor and code No as) 1> reconfigure CMAC in the old cell: CMAC-Reconf(old cell) 2> create DPCH in the new cell: CPHY-RL-Setup (new cell), CPHY-TrCh-Config (new cell), CMAC-Config (Cell-1) This Step assumes that PS RAB created is RB25 This step if oldCellId and NewCellId is passed as same, will configure the same cell Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_OldCellId)			
2		[px_RAT = fdd]			
3		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfoAct Now (p_OldCellId , tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCCH to PCH + Map CCCH to FACH
4		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf (p_OldCellId , tsc_S_CCPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMAR_ReconfigInfoAct Now (p_OldCellId, tsc_PRACH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to RACH
6		CMAC ? CMAC_Config_CNF	ca_CMAR_CfgCnf (p_OldCellId, tsc_PRACH1)		
7		+ItCheckInterCell			
8		+ It_ConfigNewcell_DPCH_HSPDSC			
9		+ ts_SetCellCfg(p_NewCellId, cell_DCH_HS_DSCH)			
10	ERR1	[px_RAT = tdd]		I	
11	ERR2	[TRUE]		I	
12		It_ConfigNewcell_DPCH_HSPDSC			
13		+ ts_SS_DL_DPCH_Cfg_Scrn_HS (p_NewCellId, p_SecondaryScramblingCode,p_Sf)			
14		+ ts_SS_HS_DSCH_PDSCH_Cfg (p_NewCellId) + ts_SS_UL_DPCH_Cfg_HS (p_NewCellId)			
15		ItCheckInterCell [p_OldCellId<> p_NewCellId]			If Inter cell HO
16		+ ts_SetCellCfg (p_OldCellId, cell_FACH_NoDedicated)			
17		+ ts_SetTmpCellInfo (p_NewCellId)			
18		[TRUE]			If cell is same
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SHO_ConfigureAdditionalDL_DPCH_HS (p_CellId : INTEGER; p_TPC_CombinationIndex : TPC_CombinationIndex) Group : HSDPA_M_SS_Steps/ Objective : To configure an additional radio link (DL DPCH). Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[tcv_RRC_RAB_Type = cell_DCH_HS_DSCH]			
3		CPHY ! CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_SRB_HS_NewDPCH_FrameOffset (tcv_Tm, tcv_TmpCellInfo.dl_DPCH_2ndScrCode, tsc_Sfc256_C0, p_TPC_CombinationIndex))		
4		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_DL_DPCH1)		
5		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_SHO, c_DCH_148_DL_InfoActNow)		
6		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_DL_DPCH1)		
7	ERR	[TRUE]		I	Programming error
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ConfigToSendlMac_HsPDU (p_CellId, p_RbId, p_N: INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure/Reconfigure MAC_HS in Explicit TFRC config mode. It uses all values from tcv_HS_Cfg. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_SendTestDataInOneMAC_Hs_PDU_REQ	cas_CRLC_SendTestDataInOneMAC_Hs_PDU_REQ(p_CellId, p_RbId, p_N)		
2		CRLC? CRLC_SendTestDataInOneMAC_Hs_PDU_CNF	car_CRLC_SendTestDataInOneMAC_Hs_PDU_Suc_CNF(p_CellId, p_RbId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_DL_DPCH_Cfg_HS (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure SS DL DPCH associated with HS_PDSCH Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_SRB_HS_Tim Init (tcv_TmpCellInfo.dl_DPCH_2ndScrCode , tsc_Sfc256_C0))		
3		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_DL_DPCH1)		
4		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_DL_ActNow (p_CellId, tsc_DL_DPCH1)		
5		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoDL_34_StandAl one, c_TrLogMappingDL_4DCC H)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_DL_DPCH_Cfg_Scrm_HS (p_CellId : INTEGER; p_SecondaryScramblingCode : SecondaryScramblingCode; p_Sf: SF512_AndCodeNumber) Group : HSDPA_M_SS_Steps/ Objective : To configure SS DL DPCH associated with HS_PDSCH with specified Scrambling Code and Spreading Factor. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (p_CellId, tsc_DL_DPCH1, cd_DL_DPCH_SRB_Scrm_HS(p_SecondaryScramblingCode, p_Sf))		
2		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_DL_DPCH1)		
3		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_DL_ActNow (p_CellId, tsc_DL_DPCH1)		
4		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoDL_34_StandAlone, c_TrLogMappingDL_4DCC H)		
6		CMAC ? CMAC_Config_CNF	ca_CMACEfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_DL_DPCH_ModifyHS (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_r5 (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_SRB_HS(tcv_TmpCellInfo.dl_DPCH_2ndScrCode , tsc_Sfc256_C0), tcv_ActTime, TRUE)		
2		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
3		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_DL (p_CellId, tsc_DL_DPCH1, tcv_ActTime)		
4		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoDL_34_StandAlone, c_TrLogMappingDL_4DCC H, tcv_ActTime)		
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure SS toHS-DPA related RL, Transport and MAC DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_RL_Setup_REQ	ca_DL_HSPDSCH_Info (p_CellId, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSC H_PS_RAB (tcv_HS_Cfg.phyLayCatego ry, tcv_HS_Cfg.hRNTI, c_DL_HSPDSCH_Informati on (c_HS_SCCH_Info, c_Measurement_Feedback_I nfo(tcv_HS_Cfg)), FALSE, tcv_HS_Cfg.hs_SCCH_Tx Po))		
2		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_HSPDSCH)		
3		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_InfoActN ow (p_CellId, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddReconf Queue (c_MAC_hs_AddReconfQue ue336)), tcv_HS_Cfg.ackNackRepeti tionFactor))		
4		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_HSPDSCH)		
5		+ ts_SS_HS_TFRC_ExplicitCfg(p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_HSPDSCH, c_UE_Info (OMIT, OMIT), c_TrChInfoHSSCCH (c_HS_DSCHMacdFlows(c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddRecon fQueue (c_MAC_hs_AddReconfQue ue336)), tcv_HS_Cfg.ackNackRepeti tionFactor)), c_TrLogMappingDL_MAC_ HS)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure SS to packet CELL_DCH / HS-DSCH. DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_SS_DL_DPCH_ModifyHS (p_CellId)			to downgra de Signallin g Channel s in DL to 3.4
3		+ ts_SS_HS_DSCH_PDSCH_Cfg (p_CellId)			to configur e HSDPA channels
4		+ ts_SS_UL_DPCH_ModifyHS (p_CellId)			to modify UL DPCH
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify_Mac_DSize (p_CellId : INTEGER;p_MacQueue:MAC_hs_AddReconfQueue) Group : HSDPA_M_SS_Steps/ Objective : To configure SS to packet CELL_DCH / HS-DSCH. DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_SS_DL_DPCH_ModifyHS (p_CellId)			to downgrade Signalling Channels in DL to 3.4
3		+ ts_SS_HS_DSCH_PDSCH_Cfg_Mac_DSize (p_CellId, p_MacQueue)			to configure HSDPA channels
4		+ ts_SS_UL_DPCH_ModifyHS (p_CellId)			to modify UL DPCH
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_SetHARQProcessId (p_CellId, p_ProcessId: INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure/Reconfigure MAC_HSto use specified HARQ Process Id for next MAC_HS PDU transmission Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_MAChs_HARQprocAssign_REQ	cas_CMAC_MAChs_HARQprocAssign_REQ(p_CellId, p_ProcessId)		
2		CMAC ? CMAC_MAChs_HARQprocAssign_CNF	car_CMAC_MAChs_HARQprocAssign_CNF(p_CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_TFRC_ExplicitCfg (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure/Reconfigure MAC_HS in Explicit TFRC config mode. It uses all values form tcv_HS_Cfg. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CMAC ! CMAC_MACHs_TFRCconfigure_REQ	ca_CMAC_MACHs_TFRC_ExplicitConfigReq (p_CellId, tcv_HS_Cfg)		
2		CMAC ? CMAC_MACHs_TFRCconfigure_CNF	ca_CMAC_MACHs_TFRC_ConfigCnf(p_CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB25_AM_PS_Cfg (p_CellId: INTEGER; p_Payloadsize: INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To setup radio bearers : RB23. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB25_AM_Info (p_CellId, tsc_RB25, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, p_Payloadsize)		cofigure radio bearers : RB25 DTCH on HS-DS CH and DTCH on DPCH associated HS-DS CH
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (p_CellId, tsc_RB25)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfigRAB_ToSRB_HS (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To bring SS from cell_DCH_HS_DSCH to cell_DCH_StandAloneSRB_NoConn. Default : SS_Def Comments : Release HSPDSCH and DPCH then re-establish HSPDSCH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
3		+ ts_SS_RelHSPDSCH (p_CellId)			
4		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB)			
5		+ ts_SS_RelDPCH (p_CellId)			
6		+ ts_SS_1DCH_DCCH_Cfg_r5 (p_CellId)			
7		+ ts_SS_RB1_ToRB4_Cfg_r5			
8		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RelHSPDSCH (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To release the DPCH channel. Default : SS_Def Comments : The following channels need to be removed: physical channels: DPCH; transport channels: DCH logical channels: DCCH; and signalling radio bearer: signalling bearers on DCH radio access bearer on DCH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_CMAC_Rel (p_CellId, tsc_HSPDSCH)			
2		+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_HSPDSCH)			
3		+ts_SS_StopRL (p_CellId, tsc_HSPDSCH)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_Rel_HS (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To release all channels that are configured in the SS. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init)]			
3		+ts_CRRLC_Rel (tsc_CellDedicated, tsc_RB25)			
4		+ ts_SS_RelHSPDSCH (p_CellId)			
5		+It_ReleaseDPCH			
6		+ It_ReleaseCommonCh			
7		+ It_Release_BCCH			
8		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
9		[tcv_TmpCellInfo.cellConfig = cell_One_DTCH_HS_DSCH_MAC]			
10		+ts_CRRLC_Rel (tsc_CellDedicated, tsc_RB_MAC_HS)			
11		+ ts_SS_RelHSPDSCH (p_CellId)			
12		+It_ReleaseDPCH			
13		+ It_ReleaseCommonCh			
14		+ It_Release_BCCH			
15		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
16		[(tcv_TmpCellInfo.cellConfig = cell_FACH_HS)]			
17		+ It_RelSRB1_4			
18		+ ts_CRRLC_Rel (tsc_CellDedicated, tsc_RB25)			
19		+ ts_CRRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)			
20		+ It_ReleaseCommonCh			
21		+ It_Release_BCCH			
22		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
23		[tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB_HS]			
24		+ts_CRRLC_Rel (tsc_CellDedicated, tsc_RB25)			
25		+ It_ReleaseDPCH			
26		+ It_ReleaseCommonCh			
27		+ It_Release_BCCH			
28		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
29		[tcv_TmpCellInfo.cellConfig = cell_5_UM_DCH_HS_DSCH]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB26)			
31		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB27)			
32		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB28)			
33		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB18)			
34		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB19)			
35		+ ts_SS_RelHSPDSCH (p_CellId)			
36		+ It_ReleaseDPCH			
37		+ It_ReleaseCommonCh			
38		+ It_Release_BCCH			
39		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
40		[tcv_TmpCellInfo.cellConfig = cell_DCH_Speech_WAMR]			
41		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
42		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
43		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB5)			
44		+ It_ReleaseDPCH			
45		+ It_ReleaseCommonCh			
46		+ It_Release_BCCH			
47		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
48		[(tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS)]			
49		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
50		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
51		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)			
52		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB12)			
53		+ ts_SS_RelHSPDSCH (p_CellId)			
54		+ It_ReleaseDPCH			
55		+ It_ReleaseCommonCh			
56		+ It_Release_BCCH			
57		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
58		[tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS]			
59		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
60		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)			
61		+ ts_SS_RelHSPDSCH (p_CellId)			
62		+ It_ReleaseDPCH			
63		+ It_ReleaseCommonCh			
64		+ It_Release_BCCH			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
65		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
66		[tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_HS_DSCH]			
67		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
68		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB17)			
69		+ ts_SS_RelHSPDSCH (p_CellId)			
70		+ It_ReleaseDPCH			
71		+ It_ReleaseCommonCh			
72		+ It_Release_BCCH			
73		+ ts_SetCellCfg (p_CellId, cell_NotConfigured)			
74		[TRUE] It_Release_BCCH		I	
75		+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH)			
76		+ ts_CMAL_Rel (p_CellId , tsc_P_CCPCH)			
77		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_P_CCPCH)			
78		+ ts_SS_StopRL (p_CellId , tsc_S_SCH)			
79		+ ts_SS_StopRL (p_CellId , tsc_P_SCH)			
80		+ ts_SS_StopRL (p_CellId , tsc_P_CCPCH)			
81		+ ts_SS_StopRL (p_CellId, tsc_P_CPICH)			
82		CPHY ! CPHY_Cell_Release_REQ	ca_CPHY_Cell_Release_RE Q(p_CellId)		
83		CPHY ? CPHY_Cell_Release_CNF	ca_CPHY_Cell_Release_CN F(p_CellId)		
		It_ReleaseCommonCh			
84		+ ts_CRLC_Rel (p_CellId , tsc_RB0)			2.
85		+ ts_CMAL_Rel (p_CellId , tsc_PRACH1)			
86		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_PRACH1)			
87		+ ts_SS_StopRL (p_CellId , tsc_AICH1)			
88		+ ts_SS_StopRL (p_CellId , tsc_PRACH1)			
89		+ ts_CRLC_Rel (p_CellId, tsc_RB_PCCH)			3.
90		+ ts_CMAL_Rel (p_CellId, tsc_S_CCPCH1)			
91		+ ts_CPHY_TrChRelNonDch (p_CellId , tsc_S_CCPCH1)			
92		+ ts_SS_StopRL (p_CellId , tsc_PICH1)			
93		+ ts_SS_StopRL (p_CellId , tsc_S_CCPCH1)			
		It_RelSRB1_4			
94		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			1.
95		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
96		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
97		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
		It_ReleaseDPCH			
98		+ It_RelSRB1_4			
99		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_DL_DPCH1)			
100		+ ts_CMAC_Rel (tsc_CellDedicated, tsc_UL_DPCH1)			
101		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)			
102		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)			
103		+ ts_SS_StopRL (p_CellId , tsc_DL_DPCH1)			
104		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
Detailed Comments : 1. Release DPCH 2. Release PRACH 3. Release S-CCPCH					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReleaseHSDSCH_ToDCH (p_CellId: INTEGER; p_ActTime : ActivationTime) Group : HSDPA_M_SS_Steps/ Objective : Reconfigure the cell status from CELL_DCH_HS_DSCH with one RB25 to cell_DCH_StandAloneSRB Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		+ ts_SS_RelHSPDSCH (p_CellId)			
4		+ts_SS_1DCH_DCCH_Modify_r5 (p_CellId , p_ActTime)			
5	ERR1	[px_RAT = tdd]		|	
6	ERR2	[TRUE]		|	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_UL_DPCH_Cfg_HS (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : To configure SS for 384 KBPS PS UL RAB Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_HS_Cfg.ul_DataRate = r384]			
2		CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_H SENH (sf4, pl0_72, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
3		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)		
4		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_Info 384k_ActNow)		UL 384 kbps
5		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMACE_CfgInfo(tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148_384k, cd_TrLogMappingUL_4DCH_1DTCH_HS)		
7		CMAC ? CMAC_Config_CNF	ca_CMACE_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
8		[tcv_HS_Cfg.ul_DataRate = r64]			
9		CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_InfoHS (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_H SENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_HS_Cfg)		
10		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)		
11		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_Info ActNow)		
12		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoUL_336_148, cd_TrLogMappingUL_4DC CH_1DTCH_HS)		
14		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
15		[TRUE]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_UL_DPCH_ModifyHS (p_CellId : INTEGER) Group : HSDPA_M_SS_Steps/ Objective : Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[tcv_HS_Cfg.ul_DataRate = r384]			UL 384 kbps
2		CPHY ! CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_HSENH (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_HSENH (sf4, pl0_72, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
3		CPHY ? CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_UL_DPCH1)		
4		CPHY ! CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_Info384k (tcv_ActTime))		
5		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148_384k, cd_TrLogMappingUL_4DCH_1DTCH_HS, tcv_ActTime)		
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
8		[tcv_HS_Cfg.ul_DataRate = r64]			UL 64 kbps
9		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_HSENH (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_HSENH (tsc_UL_DPDCH_SF_64k_PS, pl0_96, tcv_TmpCellInfo.ul_ScramblingCode, tcv_HS_Cfg), tcv_ActTime, tcv_HS_Cfg)		
10		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, cb_DCH_336_148_UL_Inf o (tcv_ActTime))		
12		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		
13		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_UL_DPCH1, c_UE_Info(OMIT, OMIT), cb_TrChInfoUL_336_148, cd_TrLogMappingUL_4DC CH_1DTCH_HS,tcv_ActTim e)		
14		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : po_ConnectionAndSS_Rel_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : To release the existing RRC connection and release the channels that are configured in the SS. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[tcv_TmpCellInfo.cellConfig <> cell_NotConfigured]			
3		+ It_Send_RRC_ConnectionRelease			
4		+ ts_SS_Rel (p_CellId)			
5		[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]		I	0.
6		It_Send_RRC_ConnectionRelease [(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_No Conn)]			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
7		[TRUE]			4.
8		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2) O R (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCP CH_StandAlonePCH_PS_2a)]			1.
9		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H_r4(tcv_CellIndInfo.dl_Int egrityCheckInfo, tcv_RRC_Ti, OMIT))		
10		AM?RLC_AM_DATA_IND	car_RRC_ConnRelCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_ConnRelCm pl (tcv_RRC_Ti))	(P)	
11		+ ts_RRC_Delay (tsc_DelayAfterRRC_ConnRel)			
12		[TRUE]			2.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		(tcv_N308 := 1, tcv_K := 1)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
14		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCC H_r4(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_N308))		
15		UM?RLC_UM_DATA_IND	car_RRC_ConnRelCmplUM(tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	
16		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			
17		It_RptRcvConnRel			
18	TSF2	START t_Dly			UE sends RRC Connection Release Complete for N308 times
19		? TIMEOUT t_Dly (tcv_K := tcv_N308 + 1)		(F)	
20	TSP2	UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	
To stop the loop					
Retransmission					
Detailed Comments : 0. The cell has not been configured, it shall not be released 1. cell_FACH state 2. cell_DCH state 3. No RRC connection is established 4. An RRC connection is established					

Test Step Dynamic Behaviour					
Test Step Name : po_ConnectionAndSS_Rels_r5 Group : BasicM_r5/ Objective : To release the existing RRC connection and release the channels that are configured in the SS for all cells. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ It_ReleaseCell (tsc_CellA)			
2		+ It_ReleaseCell (tsc_CellB)			
3		+ It_ReleaseCell (tsc_CellC)			
4		+ It_ReleaseCell (tsc_CellD)			
5		+ It_ReleaseCell (tsc_CellE)			
6		+ It_ReleaseCell (tsc_CellF)			
7		+ It_ReleaseCell (tsc_CellG)			
8		+ It_ReleaseCell (tsc_CellH)			
		It_ReleaseCell (p_CellId : INTEGER)			
9		+ ts_SetTmpCellInfo (p_CellId)			
10		[tcv_TmpCellInfo.cellConfig <> cell_NotConfigured]			1.
11		+ po_ConnectionAndSS_Rel_r5(p_CellId)			
12		[tcv_TmpCellInfo.cellConfig = cell_NotConfigured]			2.
Detailed Comments : 1. The cell has been configured, then it shall be released 2. The cell has not been configured					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_ReconfRLC_Size_r5 (p_urnti:BOOLEAN) Group : BasicM_r5/ Objective : To Reconfigure RLC size to allow U-RNTI in MAC header or C-RNTI in MAC header depending on parameter if it is TRUE allow U-RNTI in MAC header and if it is false allow C-RNTI in MAC header Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_urnti=TRUE]			
2		CRLC ! CRLC_Config_REQ	cad_RB_UM_ReconfInfo_r5 (tsc_CellDedicated , tsc_RB1, {uLogicalChannelIdentity tsc_UL_DCCH1, dLogicalChannelIdentity tsc_DL_DCCH1})		configure radio bearers : RB1 (UM + DCCH) and (UM + DCCH) Payload size=120
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB1)		
4		[p_urnti=FALSE]			
5		CRLC ! CRLC_Config_REQ	ca_RB_UM_ReconfInfo_r5 (tsc_CellDedicated , tsc_RB1, {uLogicalChannelIdentity tsc_UL_DCCH1, dLogicalChannelIdentity tsc_DL_DCCH1})		configure radio bearers : RB1 (UM + DCCH) and (UM + DCCH) Payload size=136 (default)
6		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CRLC_RelReconfSRB_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : To release RLC counter sequence number for SRB 1 to 4, by first releasing them and then setting them up again. Default : SS_Def Comments : This step is used only in conjunction with the RRC Connexion Release step. The configuration for SRBs 1 to 4 is the same as the one used for cell_DCH and cell_FACH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			
2		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
3		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
4		+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
5		+ ts_SS_RB1_ToRB4_Cfg_r5			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_CalculateActTime_r5 (p_CellId: INTEGER) Group : BasicM_r5/ Objective : To calculate the activation time with the tti value corresponding to the actual SS configuration. Default : SS_Def Comments : The tti value passed as parameter to ts_CPHY_ActTime is equal to tti/10 (e.g. tti 40 -> 4) Based on 34.108 on SRB tti. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB)OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig =cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig =cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig =cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB)OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS)OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS_Init)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init)OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS_Init)OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS_Init)]			An RRC connecti on is establish ed. Use DCCH on DL DPCH1
3		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 4)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
4		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn)]			No RRC connection is established Use CCCH configuration
5		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH1, 1)			
6		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			One RRC connection established on FACH
7		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH1, 1)			
8		[(tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn)]			One RRC connection established on FACH BMC
9		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH1, 1)			
10		[(tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)]			
11		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 2)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		[(tcv_TmpCellInfo.cellConfig = cell_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_HS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_HS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_5_UM_DCH_HS_DSCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_Speech_WAMR)]			
13		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 4)			
14		[(tcv_TmpCellInfo.cellConfig = cell_NotConfigured)]		I	
15		[TRUE]			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_GMM_IdleUpdated_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : Turn on UE and register for PS or combined PS/CS services. Default : NAS_OtherwiseFail Comments : Initial conditions: – Cell referenced by p_CellId is configured and sending SysInfos on BCCH – UE is switched off with a valid Test USIM inserted Input paramters: – p_CellId referencing the Cell Global paramters used: – The SS will use global authentication paramters and keys which are generated in test Step ts_GMM_Authentication: tcv_AuthRAND, tcv_KeySeq, tcv_AuthAUTN, tcv_AuthCK, tcv_AuthIK, tcv_AuthKcGSM. – The SS will assign to the UE default values for P-TMSI, P-TMSI signature and (in case of combined PS/IMSI attach) TMSI.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]			If UE is in operation mode A and network mode of operation is I, then run combined PS/CS procedures.
3		+It_IdleUpdated_NMO_I			
4		(tcv_Use_E_PLMN := FALSE)			Invalidat e the tcv_E_P LMN
5		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_II)]			If UE is in operation mode A and network mode of operation is II, then run first CS and PS procedures independtly
6		+It_IdleUpdated_NMO_II			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
7		(tcv_Use_E_PLMN := FALSE)			Invalidat e the tcv_E_P LMN
8		[tcv_UE_OpMode = opModeC]			If UE is in operatio n mode C, then run GMM procedur e (for PS only attach).
9		+It_GMMOnly_IdleUpdated			
10		(tcv_Use_E_PLMN := FALSE)			Invalidat e the tcv_E_P LMN
11	ERR	[TRUE]		I	Program ming error
12		It_IdleUpdated_NMO_I			
13		+ ts_MMI_UE_SwitchOn			
13		+ts_RRC_ConnEst_r5(p_CellId, est_Reg, registration)			Establis h RRC connecti on
14		[pc_AutomaticAttachSwitchON = TRUE]			Perform combine d CS/PS procedur e
15		+It_AttachRequest			ATTACH REQUE ST
16		+ts_GMM_Authentication (p_CellId)			AUTHE NTICATI ON AND CIPHER ING REQUE ST AUTHE NTICATI ON AND CIPHER ING RESPO NSE

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		+lt_SecurityMode			SECURITY MODE COMMAND SECURITY MODE COMPLETE
18		+lt_AttachAccept			ATTACH ACCEPT ATTACH COMPLETE
19		+lt_RRC_ConnRel			RRC connection release
20		[pc_AutomaticAttachSwitchON = FALSE]			First perform Location Update procedure, and then trigger UE via AT command to perform GPRS Attach
21		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cb_LocUpdReqAny(?))		Any Location Update request
22		+ ts_SS_SecurityDownloadStart (cs_domain, tcv_Start)			
23		+ts_MM_Authentication(p_CellId)			Authentication
24		+ts_RRC_Security_r5 (p_CellId, tcv_AuthCK, tcv_AuthIK, tcv_AuthKcGSM, TRUE, cs_domain)			
25		+ lt_LocUpdAcc			
26		+lt_RRC_ConnRel			Release RRC connection
27		START t_WaitS (1)			Wait 1 s to allow UE to relax

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28		?TIMEOUT t_WaitS			
29		START t_WaitS (60)			
30		+ts_AT_TriggerGMM_Attach			trigger UE to initiate GMM Attach after allowing the UE to decode Sys Infos
31		+ts_RRC_ConnEst_r5 (p_CellId, est_Reg, registration)			Establis h RRC connecti on
32		Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.at tachType.type, tcv_Start := RRC_DataInd.start)CANCEL t_WaitS	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))		ATTACH REQUE ST – Extract Attach type requeste d
33		+ ts_SS_SecurityDownloa dStart (ps_domain, tcv_Start)			
34		+ts_GMM_Authenticati on (p_CellId)			AUTHE NTICATI ON AND CIPHER ING REQUE ST AUTHE NTICATI ON AND CIPHER ING RESPO NSE
35		+lt_SecurityMode			SECURI TY MODE COMMA ND SECURI TY MODE COMPL ETE

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		+lt_AttachAccept			ATTACH ACCEP T
37		+lt_RRC_ConnRe l			ATTACH COMPL ETE RRC connecti on release
38		? TIMEOUT t_WaitS		F	IF UE doesnt respond to Attach triggere d Fail the UE.
39		lt_IdleUpdated_NMO_II			
40		+ ts_MMI_UE_SwitchOn			
41		+ts_RRC_ConnEst_r5(p_CellId, est_Reg, registration)			Establis h RRC connecti on
42		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cb_LocUpdReqAny(?))		Any Location Update request
43		(tcv_GMM_AttachExpect := TRUE, tcv_GMM_AttachRec := FALSE)			Set Flags in order to enable default handler to store ATTACH REQUE ST PDU in case it is sent during Location Update procedur e
44		+ ts_SS_SecurityDownloadStart (cs_domain, tcv_Start)			
45		+ts_MM_Authentication(p_CellId)			Authenti cation
46		+ts_RRC_Security_r5 (p_CellId, tcv_AuthCK, tcv_AuthIK, tcv_AuthKcGSM, TRUE, cs_domain)			
47		+ lt_LocUpdAcc +lt_HandleAttachRequest			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48		+ts_GMM_Authentication (p_CellId)			AUTHE NTICATI ON AND CIPHER ING REQUE ST AUTHE NTICATI ON AND CIPHER ING RESPO NSE
49		+lt_SecurityMode			SECURI TY MODE COMMA ND SECURI TY MODE COMPL ETE
50		+lt_AttachAccept			ATTACH ACCEP T ATTACH COMPL ETE
51		+lt_RRC_ConnRel			RRC connecti on release
52		lt_HandleAttachRequest (tcv_GMM_AttachExpect := FALSE)			Disable NAS default handler for ATTACH REQUE ST
53		[tcv_GMM_AttachRec = TRUE]			ATTACH REQUE ST was received and handled by NAS default handler

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
54		[NOT pc_AutomaticAttachSwitchON]			ATTACH REQUE ST was NOT yet received and the UE does not automati cally attach at switch on
55		+lt_RRC_ConnRel			RRC connecti on release
56		START t_WaitS (1)			Wait 1 s to allow UE to relax
57		?TIMEOUT t_WaitS			
58		START t_WaitS (60)			
59		+ts_AT_TriggerGMM_Attach			Trigger UE to initiate GMM Attach after allowing the UE to decode Sys Infos
60		+ts_RRC_ConnEst_r5(p_CellId, est_Reg, registration)			Establis h RRC connecti on
61		Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.t ype, tcv_Start := RRC_DataInd.start)CANCEL t_WaitS	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))		ATTACH REQUE ST - Extract Attach type requeste d
62		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
63		? TIMEOUT t_WaitS		F	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
64		[TRUE]			The UE did not send ATTACH REQUEST but it should since it shall automatically call switch attach at switch on
65		START t_WaitS (5)			
66		Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_Start := RRC_DataInd.start)CANCEL t_WaitS	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))		ATTACH REQUEST – Extract Attach type requested
67		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
68		? TIMEOUT t_WaitS			Now, if this event happens , then the UE didn't send an ATTACH REQUEST yet. We give the UE a last chance: We release the connection and wait for the UE to automatically start a connection and finally send an ATTACH REQUEST

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
69		+lt_RRC_ConnRel			RRC connecti on release
70		START t_WaitS (5)			
71		+ts_RRC_ConnEst_r5(p_CellId, est_Reg, registration)			Establis h RRC connecti on
72		Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_Start := RRC_DataInd.start)CANCEL t_WaitS	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))		ATTACH REQUE ST - Extract Attach type requeste d
73		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
74		? TIMEOUT t_WaitS		F	Here we finally FAIL the UE! [Note: Actually the timeout will be handled by the default handler of ts_RRC _ConnE st]
75		lt_GMMOnly_IdleUpdated			
76		+ ts_MMI_UE_SwitchOn			
77		+lt_GMMOnly_TriggerAttach			
78		+ts_RRC_ConnEst_r5(p_CellId, est_Reg, registration) +lt_AttachRequest			Establis h RRC connecti on ATTACH REQUE ST

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
79		+ts_GMM_Authentication (p_CellId)			AUTHE NTICATI ON AND CIPHER ING REQUE ST AUTHE NTICATI ON AND CIPHER ING RESPO NSE
80		+lt_SecurityMode			SECURI TY MODE COMMA ND SECURI TY MODE COMPL ETE
81		+lt_AttachAccept			ATTACH ACCEP T ATTACH COMPL ETE
82		+lt_RRC_ConnRel			RRC connecti on release
83		lt_GMMOnly_TriggerAttach [NOT pc_AutomaticAttachSwitchON]			
84		+ts_NAS_Delay(tsc_TWaitSysInfo)			Allow UE to decode Sys Infos
85		+ts_AT_TriggerGMM_Attach			Trigger UE to initiate GMM Attach after allowing the UE to decode Sys Infos

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
86		[TRUE]			Do nothing: UE will automatically attempt PS attach
87		It_AttachRequest Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))		ATTACH REQUEST – Extract Attach type requested
88		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
89		It_LocUpdAcc			
90		[tcv_Use_E_PLMN = FALSE] Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_LocUpdAcpTMSI(tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac))		LOCATION UPDATING ACCEPT
91		Dc?RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_TMSI_ReallocCmpl)		TMSI REALLOCATION COMPLETE
92		[TRUE]			[tcv_Use_E_PLMN = TRUE]
93		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_LocUpdAcpTMSI_E_PLMN (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_E_PLMN))		LOCATION UPDATING ACCEPT including 'equivalent PLMN list'
94		Dc?RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_TMSI_ReallocCmpl)		TMSI REALLOCATION COMPLETE
		It_SecurityMode			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
95		+ ts_RRC_Security_r5 (p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)			SECURITY MODE COMMAND SECURITY MODE COMPLETE
96		It_AttachAccept [(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]			if UE is mode A and NMO II
97		(tcv_AssignedTMSI :=px_TMSI_Def, tcv_AssignedPTMSI :=px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)			Use default values
98		[tcv_Use_E_PLMN = FALSE]			
99		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResult('011'B), c_RAI_v(tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature (tcv_Assigned_PTMSI_Sig), c_MobileIdPTMSI (tcv_AssignedPTMSI), c_GMM_MobileIdTMSI (tcv_AssignedTMSI)))		ATTACH ACCEPT for combined CS/PS – Attach result 'GPRS/IMSI attached' – RAI default – P-TMSI signature – MobileId P-TMSI – default TMSI
100		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)		ATTACH COMPLETE
101		[TRUE]			[tcv_Use_E_PLMN = TRUE]

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
102		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAccE_PLMN(c_GMM_AttachResult('011'B), c_RAI_v(tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature(tcv_Assigned_PTMSI_Sig), c_MobileIdPTMSI(tcv_AssignedPTMSI), c_GMM_MobileIdTMSI(tcv_AssignedTMSI), tcv_E_PLMN))		ATTACH ACCEPT for combined CS/PS – Attach result 'GPRS/MSI attached' – RAI default – P-TMSI signature – MobileId P-TMSI – default TMSI – equivalent PLMN list
103		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)		ATTACH COMPLETE
104	[TRUE]				If mode is C or if NMO is II
105		(tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)			Use default values
106		[tcv_Use_E_PLMN = FALSE]			
107		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResult('001'B), c_RAI_v(tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature(tcv_Assigned_PTMSI_Sig), c_MobileIdPTMSI(tcv_AssignedPTMSI), –))		ATTACH ACCEPT for PS only – Attach result 'GPRS attached' – RAI default (RAI-1) – P-TMSI –1 signature – MobileId

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
108		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)		P-TMSI -1 - omit TMSI ATTACH COMPL ETE
109		[TRUE]			[tcv_Us e_E_PL MN = TRUE]
110		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAccE_PLMN(c_GMM_AttachResult('001' B), c_RAI_v(tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature (tcv_Assigned_PTMSI_Sig), c_MobileIdPTMSI (tcv_AssignedPTMSI), -, tcv_E_PLMN))		ATTACH ACCEP T for PS only - Attach result 'GPRS attached - RAI default (RAI-1) - P-TMSI -1 signatur e - MobileId P-TMSI -1 - omit TMSI - equivale nt PLMN list
111		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)		ATTACH COMPL ETE
		It_RRC_ConnRel			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
112		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]			
113		+ ts_RRC_ConnRel_r5 (p_CellId, cell_Fach_Dch)			
114		[tcv_TmpCellInfo.cellConfig <> cell_FACH]			
115		+ ts_RRC_ConnRel_r5 (p_CellId, cell_Dch)			
Detailed Comments : See 3GPP 24.008 / 4.7 and also 3GPP 34.108 / 7.2.2 (Registration on PS) See also the detailed description in test Step ts_MM_IdleUpdated, on which this test Step is based.					

Test Step Dynamic Behaviour					
Test Step Name : ts_GMM_ServReq_r5 (p_CellId :INTEGER) Group : BasicM_r5/ Objective : To receive a default SERVICE REQUEST message. Default : NAS_OtherwiseFail Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest_r5 (c_ServiceType_v(?), c_MobileIdAny_lv,tcv_PS_KeySeq))		SERVIC E REQUE ST
2		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
Detailed Comments :					

Test Step Dynamic Behaviour	
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Group : BasicM_r5/

Default : NAS_OtherwiseFail

Comments : Initial conditions:

- The UE is initially switched off
- The cell referred has been properly configured.

Note-1: The cell settings (like PLMN, LAC and RAC) used during the registration procedure are extracted from cell info record in tcv_CellInfoX

Note-2: If 'equivalent PLMN list' is to be used, please set global variable `tcv_Use_E_PLMN` to TRUE and accordingly initialise `tcv_E_PLMN`

Description :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
1	ERR1	[pc_CS AND pc_PS]			both CS and PS supported and for testing	
2		+ts_GMM_IdleUpdated_r5 (p_CellId)				
3		[pc_CS]				CS supported and for testing
4		+ts_MM_IdleUpdated_r5 (p_CellId)				
5		[pc_PS]				PS supported and for testing
6		+ts_GMM_IdleUpdated_r5 (p_CellId)				
7		[TRUE]				I

Detailed Comments : Parameter description:

=====

p_CellId Cell Identification

INTEGER

Test Step Dynamic Behaviour					
Test Step Name : ts_MM_IdleUpdated_r5 (p_CellId: INTEGER) Group : BasicM_r5/ Objective : To bring the UE into MM state Idle Updated – CS mode, general case Default : NAS_OtherwiseFail Comments : Before IdleUpdated can be used a Cell is to be created and System Information must be sent. This test Step covers the general case: the UE has a valid TMSI. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			Fetch SS_CellInfo table corresponding to the cell
2		+ts_MM_PwrOrUSIM_On(tsc_USIM_NeedRmv)			2. Activate the UE
3		START t_Dly (150000)			3. Supervise the reception of the expected Location Updating Request
4		+ ts_RRC_ConnEst_r5 (p_CellId, est_Reg, OMIT)			Connect ion Establishment MO
5		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start) CANCEL t_Dly	car_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cb_LocUpdReqAny(?))		4. Any Location Update request
6		+ ts_SS_SecurityDownloadStart (cs_domain, tcv_Start)			
7		+ts_MM_Authentication(p_CellId)			4.1 Authentication
8		+ts_RRC_Security_r5 (p_CellId, tcv_AuthCK, tcv_AuthIK, tcv_AuthKcGSM, TRUE, cs_domain)			
9		[tcv_Use_E_PLMN = FALSE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_LocUpdAcqTMSI(tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac))		4.2 Location Updatin g Accept without 'equivale nt PLMN list'
11		Dc?RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_TMSI_ReallocCmpl)		4.3 TMSI reallocati on complete
12		+ It_RRC_ConnRel			Connect ion Release
13		[TRUE]			[tcv_Us e_E_PL MN = TRUE]
14		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_LocUpdAcqTMSI_E_PLM N (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_E_PLMN))		4.2 Location Updatin g Accept including 'equivale nt PLMN list'
15		Dc?RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, c_TMSI_ReallocCmpl)		4.3 TMSI reallocati on complete
16		+ It_RRC_ConnRel			Connect ion Release
17		It_RRC_ConnRel (tcv_Use_E_PLMN := FALSE)			De-initia lise the variable tcv_Us e_E_PLM N

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]			
19		+ ts_RRC_ConnRel_r5 (p_CellId, cell_Fach_Dch)			
20		[tcv_TmpCellInfo.cellConfig <> cell_FACH]			
21		+ ts_RRC_ConnRel_r5 (p_CellId, cell_Dch)			
<p>Detailed Comments : Parameter description:</p> <p>=====</p> <p>p_CellId Cell Identification INTEGER</p> <p>Algorithm/Steps:</p> <p>=====</p> <ol style="list-style-type: none"> 1. UE is deactivated 2. UE is activated 3. Location registration is expected to happen within time TwaitLocUpdReq 4. The location registration is accepted, and a new TMSI – the default TMSI used for testing – is passed to the UE. The UE stores the newly provided TMSI. <ol style="list-style-type: none"> 4.1 Authentication with default values 4.2 Location Updating Accept with default TMSI and MNC, MCC, LAI 4.3 Completion of the TMSI reallocation procedure 5. If NO Location Updating Request is received, ie the timer supervising the receipt of the Location registration runs out, this is assumed to be due to the fact that the PLMN is in the forbidden list. In this case local test Step It_RmvFbdnList is executed to clear this situation. 6. This should not happen, so the verdict is INCONCLUSIVE. Resources are to be released properly and automatic PLMN selection is to be reestablished. 					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnEst_r5 (p_CellId : INTEGER; p_MO_Reg : RegOr_MO; p_EstCause : EstablishmentCause) Group : BasicM_r5/ Objective : The generic Step to establish RRC Connection and bring UE to CELL_FACH or CELL_DCH state. Default : RRC_DefConnEst Comments : In this Step , 5 Signalling Radio Bearers with 3.4kbps DL & UL is setup (RB#0, 1, 2, 3,4). Same step as ts_RRC_ConnEstHS, except that the r5 indicator is checked in RRC CONNECTION SETUP COMPLETE. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SS_PrepareCellRRC_ConnEst_r5 (p_CellId)			
2		+ ts_SetTmpCellInfo (p_CellId)			
3		+It_RcvConnReq			
4		+It_Send_ConnSetUp			
5		+ ts_RRC_ReceiveConnSetupCmpl_r5 (p_CellId)			
		It_RcvConnReq			
6		[p_MO_Reg = est_Reg]			
7		TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Messsage.message.rrcConnectionRequest.initialUE_Identity, tcv_RelInd := RLC_TR_DATA_IND.tM_message.uL_CCCH_Messsage.message.rrcConnectionRequest.v3d0NonCriticalExtensions.v4b0NonCriticalExtensions.rrcConnectionRequest_v4b0ext.accessStratumReleaseIndicator)	car_RRC_ConnReq (p_CellId, tsc_RB0, cbr_108_RRC_ConnReq_r5 (registration))		
8		[(p_MO_Reg = est_MO) OR (p_MO_Reg = est_MT)]			
9		TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Messsage.message.rrcConnectionRequest.initialUE_Identity, tcv_RelInd := RLC_TR_DATA_IND.tM_message.uL_CCCH_Messsage.message.rrcConnectionRequest.v3d0NonCriticalExtensions.v4b0NonCriticalExtensions.rrcConnectionRequest_v4b0ext.accessStratumReleaseIndicator)	car_RRC_ConnReq (p_CellId, tsc_RB0, cbr_108_RRC_ConnReq_r5 (p_EstCause))		
		It_Send_ConnSetUp			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)]			
11		UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH_r5 (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13		+ ts_SetCellCfg (p_CellId, cell_FACH)			
14		[tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn]			
15		+ ts_SetCellCfg (p_CellId, cell_FACH_BMC)			1.
16		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		+ ts_SetCellCfg (p_CellId, cell_FACH_2_PRACH)			
18		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn]			
19		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH)			
20		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_NoConn]			
21		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH_StandAlonePCH)			
22		[tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn]			
23		+ ts_SetCellCfg (p_CellId, cell_FACH_MAC_SRB)			
24		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn]			
25		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg1)			
26		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn]			
27		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg2)			
28		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn]			
29		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_CTCH)			
30		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_2a_NoConn]			
31		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH_StandAlonePCH_2a)			
32		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn]			
33		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)			
34		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn]			
35		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)			
36		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn]			
37		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (
39		tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn)] UM!RLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetup DCH_r5 (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCo de , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.uL_Scrambl ingCode))		
40		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn]			
41		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB)			
42		[tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn]			
43		+ ts_SetCellCfg (p_CellId, cell_DCH_MAC_SRB)			
44	ERR	[TRUE]		I	
Detailed Comments : 1. Update the cell configuration 2. A RRC connection has already been established.					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnRel_r5 (p_CellId: INTEGER; p_RRC_RelStatus : RRC_Rel_Status) Group : BasicM_r5/ Objective : To bring the UE from state CELL_DCH/ CELL_FACH to idle state by releasing the RRC connection Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_RRC_Delay (tsc_DelayBeforeRRC_ConnRel)			
3		+ It_Send_RRC_ConnectionRelease			
4		+ It_RestartCRLC_ForNextConnection			
5		+ ts_SS_ResetSecurityKey It_RestartCRLC_ForNextConnection			
6		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB]			
7		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
8		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
9		[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS)]			
10		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
11		+ ts_SetCellCfg (p_CellId, cell_FACH_NoConn)			
12		[tcv_TmpCellInfo.cellConfig = cell_FACH_BMC]			
13		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
14		+ ts_SetCellCfg (p_CellId, cell_FACH_BMC_NoConn)			
15		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH]			
16		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
17		+ ts_SetCellCfg (p_CellId, cell_FACH_2_PRACH_NoConn)			
18		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH]			
19		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
20		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH_NoConn)			
21		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			
22		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
23		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_NoC onn)			
24		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1]			
25		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg1_No Conn)			
27		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2]			
28		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
29		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg2_No Conn)			
30		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH]			
31		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
32		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_CTCH_No Conn)			
33		[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]			
34		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
35		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a_N oConn)			
36		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)]			
37		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
38		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_ NoConn)			
39		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]			
40		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
41		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_ NoConn)			
42		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]			
43		+ ts_CRLC_RelReconfSRB_r5 (p_CellId)			
44		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_ NoConn)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
45		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)]			
46		+ ts_SS_ReconfigRAB_ToSRB_r5 (p_CellId)			
47		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
48	ERR1	[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn)]		I	1.
49	ERR2	[TRUE]		I	
50		It_Send_RRC_ConnectionRelease [p_RRC_RelStatus= cell_Dch]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51		(tcv_N308 := 1, tcv_K := 1)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
52		UM ! RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1,		
53	TSP1	UM ? RLC_UM_DATA_IND	cs_108_RRC_ConnRelDCC H_r4 (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, tcv_N308)) car_RRC_ConnRelCmplUM (tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	
54		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			UE sends RRC Connection Release Complete for N308 times
55		[p_RRC_RelStatus = cell_Fach_Dcch]			
56		UM ! RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1,		
57	TSP2	AM ? RLC_AM_DATA_IND	cs_108_RRC_ConnRelDCC H_r4 (tcv_CellIndInfo.dl_Integrity CheckInfo, tcv_RRC_Ti, OMIT)) car_RRC_ConnRelCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	
58		+ ts_RRC_Delay (tsc_DelayAfterRRC_ConnRel)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
59	TSF2	[p_RRC_RelStatus = cell_Fach_Ccch]	cas_RRC_ConnRelCCCH(p_CellId, tsc_RB0, cs_108_RRC_ConnRelCCC H_r5 (c_U_RNTI, tcv_RRC_Ti))	I	Program ming error
60		UM!RLC_UM_DATA_REQ			
61		[TRUE]			
62		lt_RptRcvConnRel			
63		START t_Dly			
64	TSP2	? TIMEOUT t_Dly (tcv_K := tcv_N308 + 1)	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCm pl (tcv_RRC_Ti))	(F)	To stop the loop Retrans mission
65		UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly		(P)	
Detailed Comments : 1. No RRC connection is established					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ReceiveConnSetupCmpl_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : To receive RRC CONNECTION SETUP COMPLETE message and download SS security keys according to the received information element. Default : RRC_DefConnEst,RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS)]			
3		START t_WaitMS			
4	TSF1	? TIMEOUT t_WaitMS		(F)	
5	TSP1	AM ? RLC_AM_DATA_IND (tcv_StartList := RLC_AM_DATA_IND.aM_message.uL_DCC_H_Message.message.rrcConnectionSetupComplete.startList, tcv_CellIndInfo.cipheringAlgorithmCapability := RLC_AM_DATA_IND.aM_message.uL_DCC_H_Message.message.rrcConnectionSetupComplete.ue_RadioAccessCapability.securityCapability.cipheringAlgorithmCap) CANCEL t_WaitMS	car_RRC_ConnSetupCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RRC_ConnSetupCmpl_r5 (tcv_RRC_Ti, ?))	(P)	UE capability ie is present in a DCH configuration
6		+ It_GetHFN			
7		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoCo			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8		nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoCo nn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)] START t_WaitMS			
9	TSF2	? TIMEOUT t_WaitMS		(F)	
10	TSP2	AM ? RLC_AM_DATA_IND (tcv_StartList := RLC_AM_DATA_IND.aM_message.uL_DCC H_Message.message.rrcConnectionSetupCo mplete.startList) CANCEL t_WaitMS	car_RRC_ConnSetupCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RRC_ConnSetupCmpl_r5 (tcv_RRC_Ti, ?))	(P)	UE capability is not present in a FACH configuration
11		+ It_GetHFN			
12		[TRUE]		I	
13		It_GetHFN (tcv_Count := NUMBER_OF_ELEMENTS (tcv_StartList))			
14		[tcv_Count = 1]			
15		+ It_FirstValue			
16		[tcv_Count = 2]			
17		+ It_FirstValue			
18		+ It_SecondValue			
19	ERR1	[TRUE]		F	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20	ERR2	It_FirstValue [tcv_StartList.[0].cn_DomainIdentity = tsc_CS_Domain]		F	
21		(tcv_CellIndInfo.start_CS := tcv_StartList.[0].start_Value)			
22		[tcv_StartList.[0].cn_DomainIdentity = tsc_PS_Domain]			
23		(tcv_CellIndInfo.start_PS := tcv_StartList.[0].start_Value)			
24		[TRUE]			
		It_SecondValue			
25		[tcv_StartList.[1].cn_DomainIdentity = tsc_CS_Domain]			
26		(tcv_CellIndInfo.start_CS := tcv_StartList.[1].start_Value)			
27		[tcv_StartList.[1].cn_DomainIdentity = tsc_PS_Domain]			
28		(tcv_CellIndInfo.start_PS := tcv_StartList.[1].start_Value)			
29	ERR3	[TRUE]		F	
Detailed Comments : 1. Download the START value to SS					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_Security_r5 (<p> p_CellId : INTEGER; p_KC : KeyCiphering; p_IK : IntegrityKey; p_GSM_ck : GSM_CipheringKey; p_NewKey : BOOLEAN; p_CN_Domain : CN_DomainIdentity) </p> Group : BasicM_r5/ Objective : Configure and Activate (or deactivate) ciphering for all concerned RBs Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			To Start Integrity on the UL RB2
2		+ It_RRC_InitVariables			
3		+ ts_SS_DownloadSecurityKey_r5 (p_CellId, p_KC, p_IK, p_GSM_ck, p_CN_Domain)			
4		+ It_ActivateSecurity_DL_SS			
5		+It_RB2_UL_IntegrityActivate			
6		+ It_StartSecurity_UE			If Start of Integrity Set DL RRC_M SN to 0, else skipt it.
7		[((tcv_CellIndInfo.ps_cipheringStarted = TRUE) AND (tcv_CellIndInfo.recentSecureDomain = ps_domain)) OR ((tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND(tcv_CellIndInfo.recentSecureDomain = cs_domain))]			
8		+ ts_CRLC_ResumeSecurity (p_CellId)			
9		[TRUE]			
10		It_RB2_UL_IntegrityActivate [tcv_Int_ModifyFlag]			
11		+ ts_RB2_UL_IntegrityActivate(tcv_RRC_MSN_RB2_UL)			If Start of Integrity Set DL RRC_M SN to 0, else skipt it.
12		[NOT tcv_Int_ModifyFlag]			
13		+ ts_RB2_UL_IntegrityActivate(0)			
14		It_ActivateSecurity_DL_SS + It_InitialiseRRC_MSN			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		+ ts_CRRLC_DL_Integrity (tcv_CellIndInfo.dL_Integrity)			
16		[[(tcv_CellIndInfo.ps_cipheringStarted = TRUE) AND (tcv_CellIndInfo.recentSecureDomain =ps_domain)) OR ((tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND(tcv_CellIndInfo.recentSecureDomain =cs_domain))]			
17		+ ts_CRRLC_GetRLC_SeqNumSecurity (p_CellId)			
18		+ It_AssignRB_ActivationTimeInfoList			
19		+ ts_CRRLC_SuspendSecurity (p_CellId)			Suspend SRBs 1, 3 and 4
20		+ ts_CRRLC_DL_CipherCfgSRB (tcv_CellIndInfo.dL_CipherMode,notInc)			Configure ciphering for RLC (RBs 1, 2, 3 and 4)
21		+ ts_CRRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode, tcv_TmpCellInfo.cellConfig,notInc)			
22		+ ts_CMAL_CipherCfg (p_CellId ,TRUE , tcv_CellIndInfo.dL_CipherMode ,incPerCFN_Cycle)			
23		[TRUE]			If no New Ciphering config
24		It_InitialiseRRC_MSN [NOT tcv_Int_ModifyFlag]			If Start of Integrity Set DL RRC_MSN to 0, else skipt it.
25		+ ts_SetDL_RRC_MessageSN (p_CellId)			
26		[tcv_Int_ModifyFlag]			
27		It_StartSecurity_UE			
28		+ It_SendSecurityModeCommand [px_CipheringOnOff]			Ciphering and Integrity

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29	TSP1	AM?RLC_AM_DATA_IND (tcv_CellIndInfo.uL_Integrity := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.securityModeComplete.ul_Int egProtActivationInfo, tcv_CellIndInfo.uL_CipherMode := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.securityModeComplete.rb_U L_CiphActivationTimeInfo)	car_RRC_SecModeCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_SecModeCmpl (tcv_RRC_Ti , ?))	(P)	UL cipherin g informati on is present
30		+ ts_CRLC_UL_CipherCfg (tcv_CellIndInfo.uL_CipherMode ,notInc)			
31		+ ts_CRLC_UL_Integrity (tcv_CellIndInfo.uL_Integrity)			
32	TSF1	AM?RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc_CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_RRC_Ti , ?))	(F)	
33		[NOT (px_CipheringOnOff)]			Integrity only no cipherin g
34	TSP2	AM?RLC_AM_DATA_IND (tcv_CellIndInfo.uL_Integrity := RLC_AM_DATA_IND.aM_message.uL_DCCH_ Message.message.securityModeComplete.ul_Int egProtActivationInfo)	car_RRC_SecModeCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_SecModeCmpl (tcv_RRC_Ti , OMIT))	(P)	No UL Cipherin g informati on
35		+ ts_CRLC_UL_Integrity (tcv_CellIndInfo.uL_Integrity)			
36	TSF2	AM?RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc_CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_RRC_Ti , ?))	(F)	
37		lt_SendSecurityModeCommand [pc_UMTS_GSM]			Branchin g if GSM Support ed
38		[px_CipheringOnOff]			Cipherin g ON and integrity ON

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
39		<pre> [((tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig =cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR ((tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_PS_CS) AND (tcv_CellIndInfo. recentSecureDomain =cs_domain)) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_PS_CS) OR(tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig =cell_DCH_DSCH_CS_PS)) AND (tcv_CellIndInfo. recentSecureDomain =cs_domain)] </pre>			Ciphering on TM RAB present, hence include Ciphering activation time
40		AM!RLC_AM_DATA_REQ	<pre> cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_Integrity CheckInfo, cs_RRC_SecModeCmdCiph Int (tcv_RRC_Ti, tcv_CellIndInfo.dL_CipherM ode, tcv_RB_ActivationTimeInfoL ist , tcv_CipherActTime, p_CN_Domain, tcv_CellIndInfo.dL_Integrity , tcv_CellIndInfo.cipheringAlg orithmCapability, cs_UE_SysSpecCap (INT_TO_BIT (tcv_UE_SystemSpecificCa p,7))))) </pre>		Ciphering for signalling RBs 1 to 4
41		[TRUE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
42		AM!RLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_Integrity CheckInfo, cs_RRC_SecModeCmdCiphInt (tcv_RRC_Ti, tcv_CellIndInfo.dL_CipherMode, tcv_RB_ActivationTimeInfoList , OMIT, p_CN_Domain, tcv_CellIndInfo.dL_Integrity , tcv_CellIndInfo.cipheringAlgorithmCapability,cs_UE_SysSpecCap (INT_TO_BIT (tcv_UE_SystemSpecificCap,7)))))		Ciphering for signalling RBs 1 to 4
43		[NOT (px_CipheringOnOff)]			Integrity ON and ciphering OFF
44		AM!RLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_Integrity CheckInfo, cs_RRC_SecModeCmdInt (tcv_RRC_Ti, p_CN_Domain, tcv_CellIndInfo.dL_Integrity , tcv_CellIndInfo.cipheringAlgorithmCapability, cs_UE_SysSpecCap (INT_TO_BIT (tcv_UE_SystemSpecificCap,7)))))		
45		[NOT pc_UMTS_GSM]			Branching if GSM Not Supported
46		[px_CipheringOnOff]			Ciphering ON and integrity ON

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
47		<pre> [((tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig =cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR ((tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_PS_CS) AND (tcv_CellIndInfo. recentSecureDomain =cs_domain)) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_PS_CS) OR(tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig =cell_DCH_DSCH_CS_PS)) AND (tcv_CellIndInfo. recentSecureDomain =cs_domain)] </pre>			Cipherin g on TM RAB present, hence include Cipherin g activation time
48		AM!RLC_AM_DATA_REQ	<pre> cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_Integrity CheckInfo, cs_RRC_SecModeCmdCiph Int (tcv_RRC_Ti, tcv_CellIndInfo.dL_CipherM ode, tcv_RB_ActivationTimeInfoL ist , tcv_CipherActTime, p_CN_Domain, tcv_CellIndInfo.dL_Integrity , tcv_CellIndInfo.cipheringAlg orithmCapability,OMIT))) </pre>		Cipherin g for signallin g RBs 1 to 4
49		[TRUE]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
50		AM!RLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_Integrity CheckInfo, cs_RRC_SecModeCmdCiph Int (tcv_RRC_Ti, tcv_CellIndInfo.dL_CipherM ode, tcv_RB_ActivationTimeInfoL ist , OMIT, p_CN_Domain, tcv_CellIndInfo.dL_Integrity , tcv_CellIndInfo.cipheringAlg orithmCapability,OMIT)))		Cipherin g for signallin g RBs 1 to 4
51		[NOT (px_CipheringOnOff)]			Integrity ON and cipherin g OFF
52		AM!RLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_Integrity CheckInfo, cs_RRC_SecModeCmdInt (tcv_RRC_Ti, p_CN_Domain, tcv_CellIndInfo.dL_Integrity , tcv_CellIndInfo.cipheringAlg orithmCapability,OMIT)))		
53		It_RRC_InitVariables			
54		+ It_InitCipherMode			
55		+ It_InitIntegrity			
56		+ ts_InitSystemSpecificCap			
57		+ ts_SaveCellInfo (p_CellId) [p_NewKey = TRUE]			Authenti cation was done, reset HFN
58		(tcv_HFN := '00000000000000000000'B)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
59		[p_CN_Domain = cs_domain]			
60		(tcv_CellIndInfo.start_CS := '00000000000000000000'B)			
61		[p_CN_Domain = ps_domain]			
62		(tcv_CellIndInfo.start_PS := '00000000000000000000'B)			
63		[p_NewKey = FALSE]			
64		[p_CN_Domain = cs_domain]			
65		(tcv_HFN := tcv_CellIndInfo.start_CS)			
66		[p_CN_Domain = ps_domain]			
67		(tcv_HFN := tcv_CellIndInfo.start_PS)			
		It_InitCipherMode			
68		[px_CipheringOnOff = TRUE]			
69		[pc_UEA1_Supp]			
70		(tcv_CellIndInfo.dL_CipherMode := cs_CipheringModeCmdOn (uea1), tcv_CellIndInfo.cipheringAlgorithmCapability := '000000000000001'B)			Switch On cipherin g
71		[p_CN_Domain = cs_domain]			
72		(tcv_CellIndInfo.cs_cipheringStarted := TRUE)			
73		[p_CN_Domain = ps_domain]			
74		(tcv_CellIndInfo.ps_cipheringStarted := TRUE)			
75		[NOT (pc_UEA1_Supp)]			
76		(tcv_CellIndInfo.dL_CipherMode := cs_CipheringModeCmdOn (uea0), tcv_CellIndInfo.cipheringAlgorithmCapability := '000000000000001'B)			Switch On cipherin g
77		[p_CN_Domain = cs_domain]			
78		(tcv_CellIndInfo.cs_cipheringStarted := TRUE)			
79		[p_CN_Domain = ps_domain]			
80		(tcv_CellIndInfo.ps_cipheringStarted := TRUE)			
81		[NOT (px_CipheringOnOff)]			
82		(tcv_CellIndInfo.cs_cipheringStarted := FALSE , tcv_CellIndInfo.ps_cipheringStarted := FALSE)			
83		[pc_UEA1_Supp]			
84		(tcv_CellIndInfo.cipheringAlgorithmCapability := '000000000000001'B)			
85		[NOT (pc_UEA1_Supp)]			
86		(tcv_CellIndInfo.cipheringAlgorithmCapability := '000000000000001'B)			
		It_InitIntegrity			
87		(tcv_CellIndInfo.recentSecureDomain:= p_CN_Domain)			
88		[tcv_CellIndInfo.integrityStarted]			
89		+ts_GetRRC_MessageSN (p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
90		(tcv_CellIndInfo.dL_Integrity := cs_IntegrityProtectModify_P(tcv_RRC_MSN_RB0 , tcv_RRC_MSN_RB1 , tcv_RRC_MSN_RB2, tcv_RRC_MSN_RB3, tcv_RRC_MSN_RB4) , tcv_Int_ModifyFlag := TRUE)			Modify integrity
91		[NOT tcv_CellIndInfo.integrityStarted]			Start integrity
92		(tcv_CellIndInfo.dL_Integrity := cs_IntegrityProtectStart (px_FRESH), tcv_CellIndInfo.integrityStarted := TRUE, tcv_CellIndInfo.dL_IntegrityCheckInfo := cs_IntegrityCheckInfo0, tcv_Int_ModifyFlag := FALSE)			
93		It_AssignRB_ActivationTimeInfoList [((tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)) AND (p_CN_Domain = ps_domain)]			
94		(tcv_RB_ActivationTimeInfoList := cs_RB_ActTimeInfoListSRBs_20 (tcv_RLC_SeqNumDL_RB1, tcv_RLC_SeqNumDL_RB2+2, tcv_RLC_SeqNumDL_RB3, tcv_RLC_SeqNumDL_RB4, tcv_RLC_SeqNumDL_RB20))			
95		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) AND (p_CN_Domain = ps_domain)]			
96		(tcv_RB_ActivationTimeInfoList := cs_RB_ActTimeInfoListSRBs_21 (tcv_RLC_SeqNumDL_RB1, tcv_RLC_SeqNumDL_RB2+2, tcv_RLC_SeqNumDL_RB3, tcv_RLC_SeqNumDL_RB4, tcv_RLC_SeqNumDL_RB21))			
97		[(tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) AND (p_CN_Domain = ps_domain)]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
98		(tcv_RB_ActivationTimeInfoList := cs_RB_ActTimeInfoListSRBs_20_21 (tcv_RLC_SeqNumDL_RB1, tcv_RLC_SeqNumDL_RB2+2, tcv_RLC_SeqNumDL_RB3, tcv_RLC_SeqNumDL_RB4, tcv_RLC_SeqNumDL_RB20, tcv_RLC_SeqNumDL_RB21))			
99		[((tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call)) AND (p_CN_Domain = ps_domain)]			
100		(tcv_RB_ActivationTimeInfoList := cs_RB_ActTimeInfoListSRBs_20_22 (tcv_RLC_SeqNumDL_RB1, tcv_RLC_SeqNumDL_RB2+2, tcv_RLC_SeqNumDL_RB3, tcv_RLC_SeqNumDL_RB4, tcv_RLC_SeqNumDL_RB20, tcv_RLC_SeqNumDL_RB22))			
101		[TRUE]			
102		(tcv_RB_ActivationTimeInfoList := cs_RB_ActTimeInfoListSRBs (tcv_RLC_SeqNumDL_RB1 , tcv_RLC_SeqNumDL_RB2 +2, tcv_RLC_SeqNumDL_RB3 , tcv_RLC_SeqNumDL_RB4))			
Detailed Comments : 1. this step is necessary if (ciphering is tested and shall be switch on) OR (ciphering is tested and shall be switch off and was previously switched on) OR integrity is tested					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_1DCH_DCCH_Cfg_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : to configure physical channel DPCH1 and connect DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel. Used for setting up stand-alone UL:13.6 DL:13.6 kbps SRBs Default : SS_Def Comments : The transport channel DCH5 carries only dedicated control channels. MAC-d is configured with cellId -1 (tsc_CellDedicated). Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		(tcv_TGCFN := 0)			
4		CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info_r5 (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_SRB_StandAloneDPCH_Offset_r5 (tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		1.
5		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_DL_DPCH1)		
6		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_TTI_10_DL_InfoActNow (p_CellId, tsc_DL_DPCH1)		2.
7		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
8		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_13_6_StandAlone, c_TrLogMappingDL_4DCH)		3. C-RNTI and U-RNTI are not needed on DPCH
9		CMAC ? CMAC_Config_CNF	ca_CMACEfgCnf(tsc_CellDedicated, tsc_DL_DPCH1)		
10		CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_Info_r5(p_CellId, tsc_UL_DPCH1, c_UL_DPCH_13_6_StandAlone_r5(tcv_TmpCellInfo.ul_ScramblingCode))		1.
11		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_UL_DPCH1)		
12		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_TTI_10_UL_InfoActNow (p_CellId, tsc_UL_DPCH1)		2.
13		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		
14		CMAC ! CMAC_Config_REQ	ca_CMACEfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_13_6_StandAlone, c_TrLogMappingUL_4DCH)		3. C-RNTI and U-RNTI are not needed on DPCH

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
16	ERR1	[px_RAT = tdd]		I	
17	ERR2	[TRUE]		I	
Detailed Comments : 1. configure physical channel DPCH1. 2. connect DCH5 to DPCH1. 3. map logical channels: DCCH1–4 to DCH5. MAC–d is to be configured with cellId –1.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_1DCH_DCCH_Modify_r5 (p_CellId : INTEGER; p_ActTime : ActivationTime) Group : BasicM_r5/ Objective : to configure physical channel DPCH1 and connect DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel. Used for setting up stand-alone UL:13.6 DL:13.6 kbps SRBs Default : SS_Def Comments : The transport channel DCH5 carries only dedicated control channels. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		(tcv_TGCFN := 0)			
4		CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_r5 (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_SRB_StandAloneDPCH_Offset_r5 (tcv_TmpCellInfo.dl_DPCH_2ndScrCode) ,p_ActTime, TRUE)		1.
5		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
6		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_TTI_10_DL_Info (p_CellId, tsc_DL_DPCH1,p_ActTime)		2.
7		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
8		CMAC ! CMAC_Config_REQ	ca_CMAReconfigInfo(tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_13_6_StandAlone, c_TrLogMappingDL_4DCH ,p_ActTime)		3. C-RNTI and U-RNTI are not needed on DPCH
9		CMAC ? CMAC_Config_CNF	ca_CMAReconfigCnf(tsc_CellDedicated, tsc_DL_DPCH1)		
10		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_r5 (p_CellId, tsc_UL_DPCH1, c_UL_DPCH_13_6_StandAlone_r5 (tcv_TmpCellInfo.ul_ScramblingCode) , p_ActTime)		1.
11		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_UL_DPCH1)		
12		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_TTI_10_UL_Info (p_CellId, tsc_UL_DPCH1,p_ActTime)		2.
13		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		
14		CMAC ! CMAC_Config_REQ	ca_CMAReconfigInfo(tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoUL_13_6_StandAlone, c_TrLogMappingUL_4DCH ,p_ActTime)		3. C-RNTI and U-RNTI are not needed on DPCH

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_Cell Dedicated, tsc_UL_DPCH1)		
16	ERR1	[px_RAT = tdd]		|	
17	ERR2	[TRUE]		|	
Detailed Comments : 1. configure physical channel DPCH1. 2. connect DCH5 to DPCH1. 3. map logical channels: DCCH1–4 to DCH5.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_2DCH_Modify_r5 (<p> p_CellId : INTEGER; p_UL_TrChConfig: CphyTrchConfigReq; p_DL_TrChConfig: CphyTrchConfigReq; p_UL_TrCHInfo, p_DL_TrCHInfo: TrCHInfo; p_UL_TrLogMapping, p_DL_TrLogMapping: TrCH_LogCHMappingList1; p_ActTime: ActivationTime; p_DL_DPCHInfo : DL_DPCHInfo_r5; p_UL_DPCH_Info : UL_DPCH_Info_r5) </p> Group : BasicM_r5/ Objective : to modify physical channel DPCH1and connect DCH1and DCH5 to the physical channel, then map DCCH1–4 on to the DCH5 transport channel and map DTCH1 to the DCH1 transport channel. used for RLC testing. Default : SS_Def Comments : SS is in TM mode different from the mode of UE. Transport channel configuration is parameter (of type: CphyTrchConfigReq); DPCH is 64 kbps physical channel. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_r5 (p_CellId, tsc_DL_DPCH1, p_DL_DPCHInfo,p_ActTime , TRUE)		1.
4		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
5		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo(p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_No SHO, p_DL_TrChConfig)		3.
6		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
7		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), p_DL_TrCHInfo, p_DL_TrLogMapping,p_ActTime)		4. U–RNTI and C–RNTI are not needed on DPCH
8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
9		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_r5 (p_CellId, tsc_UL_DPCH1, p_UL_DPCH_Info,p_ActTime)		1.
10		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_UL_DPCH1)		
11		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, p_UL_TrChConfig)		2.
12		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_UL_DPCH1, c_UE_Info(OMIT, OMIT), p_UL_TrCHInfo, p_UL_TrLogMapping,p_Act Time)		4. U-RNTI and C-RNTI are not needed on DPCH
14		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_UL_DPCH1)		
15	ERR1	[px_RAT = tdd]		I	
16	ERR2	[TRUE]		I	
Detailed Comments : 1. configure DPCH1 supporting 64 kspb data rate. 2. connect uplink DCH1 and DCH5 to DPCH1. 3. connect downlink DCH1 and DCH5 to DPCH1. 4. map logical channels: DCCH1-4 to DCH5, DTCH1 to DCH1 for both uplink and downlink and send relevant transport channel configuration information to MAC.					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_AddDPCH_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : To reconfigure the cell p_CellId from cell_NoDPCH to cell_DCH_StandaloneSRB_NoConn. Default : SS_Def Comments : The following channels need to be created: physical channels: DPCH; transport channels: DCH logical channels: DCCH; and signalling radio bearer: signalling bearer RB1, RB2, RB3, RB4 on DCH. Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SS_1DCH_DCCH_Cfg_r5 (p_CellId)			
2		+ts_SS_RB1_ToRB4_Cfg_r5			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_CreateCellDCH_r5 (p_CellId : INTEGER)					
Group : BasicM_r5/					
Objective : This test Step sets up a cell with stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH which consists of the following: For a first cell: physical channels: p-SCH, s-SCH, p-CPICH, p-CCPCH, s-CCPCH, PRACH and DPCH; transport channels: BCH, FACH, PCH, RACH, DCH; logical channels: BCCH, CCCH, PCCH, DCCH; and signalling radio bearer RB0 on FACH and RACH; signalling bearer RB1, RB2, RB3, RB4 on DCH. For cells other than the first cell physical channels: p-SCH, s-SCH, p-CPICH, p-CCPCH, s-CCPCH, PRACH (no DPCH) transport channels: BCH, FACH, PCH, RACH (no DCH) logical channels: BCCH, CCCH, PCCH (no DCCH) signalling radio bearer RB0 on FACH and RACH (not RB1 RB2 RB3 RB4 on DCH)					
Default : InitOtherwiseFail					
Comments : Cell configuration supporting UL:3.4 DL:3.4 kbps stand-alone signalling RB. CRLC is configured with cellId -1 (tsc_CellDedicated) CMAC for DCCH (MAC-d) is configured with cellId -1 (tsc_CellDedicated).					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SS_CellCfg(p_CellId)			First cell to be created
2		+ts_SS_BCH_SCH_CPICH_Cfg(p_CellId)			
3		+ts_SS_PCH_FACH_CCCH_Cfg(p_CellId)			
4		+ts_SS_RACH_CCCH_Cfg(p_CellId)			
5		+ ts_CountConfiguredCell			
6		[tcv_NumCfgCell = 0]			
7		+ts_SS_1DCH_DCCH_Cfg_r5(p_CellId)			1. Next cell to be created
8		+ts_SS_RB_BCCH_BCH_Cfg(p_CellId)			
9		+ts_SS_RB_PCCH_Cfg(p_CellId)			
10		+ts_SS_RB0_Cfg_r5 (p_CellId)			
11		+ts_SS_RB1_ToRB4_Cfg_r5			
12		(tcv_TmpCellInfo.DL_DPCH_S HO := TRUE, tcv_TmpCellInfo.UL_DPCH_S HO := TRUE, tcv_TmpCellInfo.cellConfig := cell_DCH_StandAloneSRB_No Conn)			
13		+ ts_SaveCellInfo (p_CellId)			
14		[tcv_NumCfgCell <> 0]			
15		+ ts_SS_RB_BCCH_BCH_Cfg(p_CellId)			
16		+ ts_SS_RB_PCCH_Cfg(p_CellId)			
17		+ ts_SS_RB0_Cfg_r5(p_CellId)			1.
18		+ ts_SetCellCfg (p_CellId, cell_NoDPCH)			
Detailed Comments : 1. Set the cell configuration in the CellInfoCfg record					

Test Step Dynamic Behaviour

Test Step Name : ts_SS_CreateCellFACH_r5 (p_CellId : INTEGER)

Group : BasicM_r5/

Objective : To setup a baseline cell which consists of the following:
 For a first cell_FACH cell
 physical channels: p-SCH, s-SCH, p-CPICH, p-CCPCH, s-CCPCH and PRACH;
 transport channels: BCH, FACH, PCH, RACH;
 logical channels: BCCH, CCCH, PCCH, DCCH; and
 signalling radio bearer RB0(CCCH), RB1(UM DCCH), RB2(AM DCCH), RB3(AM DCCH for NAS high priority), RB4(AM DCCH for NAS low priority) on FACH and RACH, RB-3(TM BCCH FACH) on FACH, RB20(AM DTCH) on FACH and RACH, RB-1 (TM, BCCH) on BCH, RB-2 (TM, PCCH, PCH)

 For cells other than the first cell
 Same physical channels as for the first cell (p-SCH, s-SCH, p-CPICH, p-CCPCH, s-CCPCH and PRACH);
 Same transport channels as for the first cell (BCH, FACH, PCH, RACH);
 Logical channels: BCCH, CCCH, PCCH, no DCCH
 Signalling radio bearer RB0(CCCH), RB-3(TM BCCH FACH) on FACH, RB-1 (TM, BCCH) on BCH, RB-2 (TM, PCCH, PCH)

Default : InitOtherwiseFail

Comments : CRLC is configured with cellId -1 (tsc_CellDedicated)

Description :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SS_CellCfg(p_CellId)			
2		+ts_SS_BCH_SCH_CPICH_Cfg(p_CellId)			
3		+ ts_CountConfiguredCell			
4		[tcv_NumCfgCell = 0]			First cell to be created
5		+ts_SS_PCH_2FACH_CCCH_DCCH_BCH_DTCH_Cfg (p_CellId)			
6		+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg (p_CellId)			
7		+ts_SS_RB_BCCH_BCH_Cfg(p_CellId)			
8		+ts_SS_RB_PCCH_Cfg(p_CellId)			
9		+ts_SS_RB0_Cfg_r5 (p_CellId)			
10		+ts_SS_RB1_ToRB4_Cfg_r5			
11		+ts_SS_RB_BCCH_FACH_Cfg(p_CellId)			RB9 is on BCCH-FACH
12		+ts_SS_RB20_AM_PS_Cfg_r5 (320)			
13		+ts_SetCellCfg (p_CellId, cell_FACH_NoConn)			
14		[tcv_NumCfgCell <> 0]			Not first cell to be created
15		+ts_SS_PCH_FACH_CCCH_Cfg (p_CellId)			
16		+ ts_SS_RACH_CCCH_Cfg (p_CellId)			
17		+ts_SS_RB_BCCH_BCH_Cfg(p_CellId)			
18		+ts_SS_RB_PCCH_Cfg(p_CellId)			
19		+ts_SS_RB0_Cfg_r5 (p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		+ ts_SetCellCfg (p_CellId, cell_FACH_NoDedicated)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_DownloadSecurityKey_r5 (p_CellId : INTEGER; p_KC : KeyCiphering; p_IK : IntegrityKey; p_GSM_ck : GSM_CipheringKey; p_CN_Domain : CN_DomainIdentity) Group : BasicM_r5/ Objective : To download all security keys to CMAC (for DCH cell configurations only) and CRLC. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_CipheringOnOff]			
3		((tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoC onn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_No Conn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_No Conn)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a)O R			Cell FACH

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
4		(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)] + It_DownloadKeyCRLC (tcv_HFN, p_KC, p_IK)			
5		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_HS_Init)] + It_DownloadKeyCRLC (tcv_HFN, p_KC,p_IK)			Cell DCH no TM RAB
6					
7		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig =cell_Two_DTCH_PS_CS_Init) OR (tcv_TmpCellInfo.cellConfig =cell_Four_DTCH_PS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_HS_CS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH			cell DCH with TM RAB

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8		_HS_CS_Init])			
9		+ It_DownloadKeyCRLC (
10		tcv_HFN,p_KC,p_IK)			
11		+ It_DownloadKeyCMAC (tcv_HFN,			
12		p_KC)			
		[TRUE]			
		[NOT px_CipheringOnOff]			
		[(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_NoConn) OR			
		(tcv_TmpCellInfo.cellConfig = cell_FACH) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_NoDedicated) OR			
		(tcv_TmpCellInfo.cellConfig = cell_FACH_PS			
		) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_BMC) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_BMC_NoConn) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2_PRACH_NoConn) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2_PRACH) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2_SCCPCH_NoConn) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2_SCCPCH) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2SCCPCH_StandAlonePCH_NoC			
		onn) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2SCCPCH_StandAlonePCH) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2SCCPCH_StandAlonePCH_PS)			
		OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_4_FACH_Cnfg1_No			
		Conn) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_4_FACH_Cnfg2_No			
		Conn) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_3_FACH_CTCH_No			
		Conn)OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_3_FACH_CTCH)OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)			
		OR			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_2SCCPCH_StandAlonePCH_2a)O			
		R			
		(tcv_TmpCellInfo.cellConfig =			
		cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)) + It_DownloadKeyCRLC (tcv_HFN,OMIT,p_IK)			Cell DCH no TM RAB
14		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS)OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init)]			
15		+ It_DownloadKeyCRLC (tcv_HFN ,OMIT, p_IK)			
16		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB)]			
17		+ It_DownloadKeyCRLC (tcv_HFN,OMIT, p_IK)			
18		[TRUE]			
19		It_DownloadKeyCMAC (p_HFN : B20; p_KC_LT : KeyCiphering) CMAC ! CMAC_SecurityMode_Config_REQ	ca_CMAC_SecurityModeCf gReq (tsc_CellDedicated , p_CN_Domain, p_HFN , p_KC_LT, OMIT, OMIT)		Downloa d security keys for MAC
20		CMAC ? CMAC_SecurityMode_Config_CNF	ca_CMAC_SecurityModeCf gCnf (tsc_CellDedicated)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		It_DownloadKeyCRLC (p_HFN : B20; p_KC_LT : KeyCiphering; p_IK_LT : IntegrityKey) CRLC ! CRLC_SecurityMode_Config_REQ	ca_CRLC_SecurityModeCfg Req (tsc_CellDedicated , p_CN_Domain, p_HFN , p_KC_LT, p_IK_LT, OMIT)		Download security keys for RLC. CRLC is configured with cellId -1 (tsc_CellDedicated)
22		CRLC ? CRLC_SecurityMode_Config_CNF	ca_CRLC_SecurityModeCfg Cnf (tsc_CellDedicated)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_PrepareCellRRC_ConnEst_r5 (p_CellId: INTEGER) Group : BasicM_r5/ Objective : To reconfigure the cell if it is not ready for an RRC connection establishment. 4 cases are handled: 1> the cell is already configure (cell_DCH_StandAloneSRB_NoConn OR cell_FACH_NoConn OR cell_FACH_BMC_NoConn OR cell_FACH_2PRACH_NoConn OR cell_FACH_2_SCCPCH_NoConn) 2> the cell is configured to cell_NoDPCH, then remove the DPCH from the 'old' cell and configure the DPCH in the cell p_CellId 3> the cell is configured to cell_FACH_NoDedicated , then reconfigure the old cell where the 4> the configuration of the cell to not allow an RRC connection establishment -> error case Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)]			0

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
3		[(tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcv_CellInfoA.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kPS_RAB_SRB)]			1
4		+ It_ReconfOldDPCH_Cell			
5		+ ts_SS_AddDPCH_r5(p_CellId)			
6		(tcv_TmpCellInfo.cellConfig := cell_DCH_StandAloneSRB_NoConn, tcv_TmpCellInfo.DL_DPCH_SHO := TRUE, tcv_TmpCellInfo.UL_DPCH_SHO := TRUE)			
7		+ ts_SaveCellInfo (p_CellId)			
8		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated]			2
9		+ It_ReconfOldFACH_Cell			
10		+ ts_SS_ReconfNoDedicatedToCellFACH (p_CellId)			
11		+ ts_SetCellCfg (p_CellId, cell_FACH_NoConn)			
12	ERR	[TRUE]		I	Program ming error
		It_ReconfOldFACH_Cell			
13		[(tcv_CellInfoA.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoA.cellConfig = cell_FACH) OR (tcv_CellInfoA.cellConfig = cell_FACH_PS)]			
14		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellA)			
15		(tcv_CellInfoA.cellConfig := cell_FACH_NoDedicated)			
16		[(tcv_CellInfoB.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoB.cellConfig = cell_FACH) OR (tcv_CellInfoB.cellConfig = cell_FACH_PS)]			
17		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellB)			
18		(tcv_CellInfoB.cellConfig := cell_FACH_NoDedicated)			
19		[(tcv_CellInfoC.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoC.cellConfig = cell_FACH) OR (tcv_CellInfoC.cellConfig = cell_FACH_PS)]			
20		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellC)			
21		(tcv_CellInfoC.cellConfig := cell_FACH_NoDedicated)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		[(tcv_CellInfoD.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoD.cellConfig = cell_FACH) OR (tcv_CellInfoD.cellConfig = cell_FACH_PS)]			
23		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellD)			
24		(tcv_CellInfoD.cellConfig := cell_FACH_NoDedicated)			
25		[(tcv_CellInfoE.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoE.cellConfig = cell_FACH) OR (tcv_CellInfoE.cellConfig = cell_FACH_PS)]			
26		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellE)			
27		(tcv_CellInfoE.cellConfig := cell_FACH_NoDedicated)			
28		[(tcv_CellInfoF.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoF.cellConfig = cell_FACH) OR (tcv_CellInfoF.cellConfig = cell_FACH_PS)]			
29		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellF)			
30		(tcv_CellInfoF.cellConfig := cell_FACH_NoDedicated)			
31		[(tcv_CellInfoG.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoG.cellConfig = cell_FACH) OR (tcv_CellInfoG.cellConfig = cell_FACH_PS)]			
32		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellG)			
33		(tcv_CellInfoG.cellConfig := cell_FACH_NoDedicated)			
34		[(tcv_CellInfoH.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoH.cellConfig = cell_FACH) OR (tcv_CellInfoH.cellConfig = cell_FACH_PS)]			
35		+ ts_ReconfigFACH_ToNoDedicated (tsc_CellH)			
36		(tcv_CellInfoH.cellConfig := cell_FACH_NoDedicated)			
37	ERR1	[TRUE] It_ReconfOldDPCH_Cell		I	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		[(tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_UM_RAB)]			
39		+ ts_SS_RelDPCH (tsc_CellA)			
40		(tcv_CellInfoA.cellConfig := cell_NoDPCH, tcv_CellInfoA.DL_DPCH_SHO := FALSE, tcv_CellInfoA.UL_DPCH_SHO := FALSE)			
41		[(tcv_CellInfoB.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoB.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoB.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoB.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoB.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoB.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoB.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoB.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoB.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoB.cellConfig = cell_PDCP_AM_UM_RAB)]			
42		+ ts_SS_RelDPCH (tsc_CellB)			
43		(tcv_CellInfoB.cellConfig := cell_NoDPCH , tcv_CellInfoB.DL_DPCH_SHO := FALSE, tcv_CellInfoB.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		[(tcv_CellInfoC.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoC.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoC.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoC.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoC.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoC.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoC.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoC.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoC.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoC.cellConfig = cell_PDCP_AM_UM_RAB)]			
45		+ ts_SS_RelDPCH (tsc_CellC)			
46		(tcv_CellInfoC.cellConfig := cell_NoDPCH, tcv_CellInfoC.DL_DPCH_SHO := FALSE, tcv_CellInfoC.UL_DPCH_SHO := FALSE)			
47		[(tcv_CellInfoD.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoD.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoD.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoD.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoD.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoD.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoD.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoD.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoD.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoD.cellConfig = cell_PDCP_AM_UM_RAB)]			
48		+ ts_SS_RelDPCH (tsc_CellD)			
49		(tcv_CellInfoD.cellConfig := cell_NoDPCH, tcv_CellInfoD.DL_DPCH_SHO := FALSE, tcv_CellInfoD.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
50		[(tcv_CellInfoE.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoE.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoE.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoE.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoE.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoE.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoE.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoE.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoE.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoE.cellConfig = cell_PDCP_AM_UM_RAB)]			
51		+ ts_SS_RelDPCH (tsc_CellE)			
52		(tcv_CellInfoE.cellConfig := cell_NoDPCH, tcv_CellInfoE.DL_DPCH_SHO := FALSE, tcv_CellInfoE.UL_DPCH_SHO := FALSE)			
53		[(tcv_CellInfoF.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoF.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoF.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoF.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoF.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoF.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoF.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoF.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoF.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoF.cellConfig = cell_PDCP_AM_UM_RAB)]			
54		+ ts_SS_RelDPCH (tsc_CellF)			
55		(tcv_CellInfoF.cellConfig := cell_NoDPCH, tcv_CellInfoF.DL_DPCH_SHO := FALSE, tcv_CellInfoF.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
56		[(tcv_CellInfoG.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoG.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoG.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoG.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoG.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoG.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoG.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoG.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoG.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoG.cellConfig = cell_PDCP_AM_UM_RAB)]			
57		+ ts_SS_RelDPCH (tsc_CellG)			
58		(tcv_CellInfoG.cellConfig := cell_NoDPCH, tcv_CellInfoG.DL_DPCH_SHO := FALSE, tcv_CellInfoG.UL_DPCH_SHO := FALSE)			
59		[(tcv_CellInfoH.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoH.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoH.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoH.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoH.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoH.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoH.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoH.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoH.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoH.cellConfig = cell_PDCP_AM_UM_RAB)]			
60		+ ts_SS_RelDPCH (tsc_CellH)			
61		(tcv_CellInfoH.cellConfig := cell_NoDPCH, tcv_CellInfoH.DL_DPCH_SHO := FALSE, tcv_CellInfoH.UL_DPCH_SHO := FALSE)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62		[TRUE]			
Detailed Comments : 0. No reconfiguration of the cell is needed before RRC connection establishment 1. Reconfigure the cell p_CellId to cell_DCH_StandAloneSRB_NoConn and reconfigure the cell set to cell_DCH_StandAloneSRB_NoConn to cell_NoDPCH 2. Reconfigure the cell p_CellId to cell_FACH_NoConn and reconfigure the cell set to cell_FACH_NoConn to cell_FACH_NoDedicated					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB0_Cfg_r5 (p_CellId : INTEGER) Group : BasicM_r5/ Objective : to setup radio bearers : RB0 (the downlink is UM + CCCH + FACH + sCCPCH1 and uplink is TM + CCCH + RACH + PRACH).The configuration is adapted from 34.108 cl. 6.10.2.4.3 and 6.10.2.4.4 Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_UM_DL_Info (p_CellId, tsc_RB0, { dLlogicalChannelIdentity tsc_DL_CCCH5})		cofigure radio bearers (downlin k): RB0 (UM + CCCH + FACH)
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(p_CellId, tsc_RB0)		
3		CRLC ! CRLC_Config_REQ	ca_RB_TM_UL_Info_r5 (p_CellId, tsc_RB0, 166, {uLlogicalChannelIdentity tsc_UL_CCCH5})		cofigure radio bearers (uplink): RB0 (TM + CCCH + RACH)
4		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(p_CellId, tsc_RB0)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB1_ToRB4_Cfg_r5 Group : BasicM_r5/ Objective : To setup radio bearers : RB1, RB2, RB3, RB4. default values from 34.123-1 Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_UM_Info_r5 (tsc_CellDedicated , tsc_RB1, {uLogicalChannelIdentity tsc_UL_DCCH1, dLogicalChannelIdentity tsc_DL_DCCH1})		configure radio bearers : RB1 (UM + DCCH) and (UM + DCCH)
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB1)		
3		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_SRB_r5 (tsc_CellDedicated, tsc_RB2, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DCCH2, dLogicalChannelIdentity tsc_DL_DCCH2}, 128)		configure radio bearers : RB2 (AM + DCCH) and (AM + DCCH)
4		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB2)		
5		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_SRB_r5 (tsc_CellDedicated, tsc_RB3, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DCCH3, dLogicalChannelIdentity tsc_DL_DCCH3}, 128)		configure radio bearers : RB3 (AM + DCCH) and (AM + DCCH)
6		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB3)		
7		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_SRB_r5 (tsc_CellDedicated, tsc_RB4, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DCCH4, dLogicalChannelIdentity tsc_DL_DCCH4}, 128)		configure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
8		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_RB20_AM_PS_Cfg_r5 (p_Payloadsize: INTEGER) Group : BasicM_r5/ Objective : setup radio bearers : RB20. default values from 34.108 cl. 6.10.2.4.4 and 6.10.2.4.3.3 Default : SS_Def Comments : CRLC is configured with cellId -1 (tsc_CellDedicated) Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_RAB_r5 (tsc_CellDedicated, tsc_RB20, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1},p_Payload size)		cofigure radio bearers :
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		RB20 (AM + DTCH)
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_ReconfigRAB_ToSRB_r5 (p_CellId: INTEGER) Group : BasicM_r5/ Objective : To reconfigure SS from a configuration including RABS to cell_DCH. Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_SS_ReIDPCH (p_CellId)			
3		+ ts_SS_1DCH_DCCH_Cfg_r5 (p_CellId)			
4		+ ts_SS_RB1_ToRB4_Cfg_r5			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_C3_CheckCellDCH_NoNAS_r5 (p_CellId : INTEGER) Group : RRC_M_r5/ Objective : Verify that UE is in CELL_DCH State. No NAS signalling connection need to be deleted. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ It_Send_RRC_ConnectionRelease			
3		+ It_RestartCRLC_ForNextConnection			
		It_RestartCRLC_ForNextConnection			
4		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB]			
5		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
6		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB_HS)]			
7		+ ts_SS_ReconfigRAB_ToSRB_r5 (p_CellId)			
8		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
9	ERR2	[TRUE] It_Send_RRC_ConnectionRelease		I	

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		(tcv_N308 := 1, tcv_K := 1)			Maximum number of retransmissions of the RRC CONNECTION RELEASE COMPLETE message
11		UM ! RLC_UM_DATA_REQ START t_WaitMS	cas_RRC_ConnRelDCCCH (tsc_CellDedicated, tsc_RB1,		step 1
12	TSP1	UM ? RLC_UM_DATA_IND CANCEL t_WaitMS	cs_108_RRC_ConnRelDCCCH_r4(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_N308)) car_RRC_ConnRelCmplUM (tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	step 2
13		REPEAT It_RptRcvConnRel UNTIL [tcv_K = (tcv_N308+1)]			UE sends RRC Connection Release Complete for N308 times
14	TSF1	? TIMEOUT t_WaitMS		(F)	
15		It_RptRcvConnRel			
16	TSF2	START t_Dly			
17		? TIMEOUT t_Dly		(F)	
18	TSP2	(tcv_K := tcv_N308 + 1)			To stop the loop
18	TSP2	UM?RLC_UM_DATA_IND (tcv_K := tcv_K+1) CANCEL t_Dly	car_RRC_ConnRelCmplUM (tsc_CellDedicated , tsc_RB1, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	Retransmission
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_C3_CheckCellDCH_r5 (p_CellId : INTEGER) Group : RRC_M_r5/ Objective : Verify that UE is in CELL_DCH State Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_RRC_Delay (tsc_DelayBeforeRRC_ConnRel)			
3		+ ts_C3_CheckCellDCH_NoNAS_r5 (p_CellId)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_C5_CheckURA_PCH_r5 (p_CellId : INTEGER) Group : RRC_M_r5/ Objective : Verify that UE is in URA_PCH state. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_Delay(5000)			5 seconds delay for UE to settle to PCH state
2		+ ts_SetTmpCellInfo (p_CellId)			
3		(tcv_TmpCellInfo.ura_Identity := INT_TO_BIT ((BIT_TO_INT (tcv_TmpCellInfo.ura_Identity) +2) MOD 65534 , 16))			Add 2 to the current URA id value
4		+ ts_SaveCellInfo (p_CellId)			
5		+ ts_SysInfoModifySIB2_RRC (p_CellId, c_SIB2_Def (tcv_TmpCellInfo) , tsc_Now)			steps 1-2
6		START t_Dly (15000)			step 2 Wait 15s
7	TSP	TM ? RLC_TR_DATA_IND CANCEL t_Dly	car_URA_Update (p_CellId, tsc_RB0, cr_108_URA_Update (tcv_TmpCellInfo.uRNTI, changeOfURA, noError: NULL))	(P)	step 3
8		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelCCCH(p_CellId, tsc_RB0, cs_108_RRC_ConnRelCCC H_r5 (tcv_TmpCellInfo.uRNTI, tcv_RRC_Ti))		step 4
9		+ It_SetCellCfg			
10	TSF1	? TIMEOUT t_Dly		(F)	
11		It_SetCellCfg [(tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH)]			
12		+ ts_SetCellCfg (p_CellId , cell_FACH_NoConn)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB)]			
14		+ ts_SS_ReconfigRAB_ToSRB (p_CellId)			
15		+ ts_SetCellCfg (p_CellId , cell_DCH_StandAloneSRB_NoConn)			
16		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB)]			
17		+ ts_SetCellCfg (p_CellId , cell_DCH_StandAloneSRB_NoConn)			
18		[(tcv_TmpCellInfo.cellConfig = cell_FACH_HS)]			
19		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)			
20		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
21		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
22		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
23		+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB25)			
24		+ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)			
25		+ ts_SetCellCfg (p_CellId , cell_FACH_NoDedicated)			
26		[TRUE]		(I)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnEstPS_MO_P5_P6_r5 (p_CellId : INTEGER) Group : RRC_M_r5/ Objective : RRC connection establishment procedure for MO PS calls on DCH Default : RRC_Def1 Comments : See 34.108 clause 7.4.2.2.2 Test case variables used: tcv_RRC_EstCauMO : the establishment cause for MT call that is supported by UE. Assigned in ts_RRC_InitVariables.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_ConnEst_r5 (p_CellId, est_MO, tcv_RRC_EstCauMO)			Steps 1-3
2		+ ts_GMM_ServReq_r5 (p_CellId)			Step 4
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_ConnEstPS_MT_P5_P6_r5 (p_CellId : INTEGER) Group : Objective : RRC connection establishment procedure for MO PS calls on DCH Default : RRC_Def1 Comments : See 34.108 clause 7.4.2.2.2 Test case variables used: tcv_RRC_EstCauMO : the establishment cause for MT call that is supported by UE. Assigned in ts_RRC_InitVariables.					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_RRC_PagType1_TMSI_PTMSI_Cau (p_CellId, tcv_AssignedPTMSI, tcv_RRC_PagingCau)			
2		+ts_RRC_ConnEst_r5 (p_CellId, est_MT, tcv_RRC_EstCauMT)			Steps 1–3
3		+ ts_GMM_ServReq (p_CellId)			Step 4
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SubTest7_1_5_4(p_ProcessId:INTEGER;p_TSN: B6;p_RLC_SQN:INTEGER) Group : Objective : to execute subtest of test case 7.1.5.4 once Default : MAC_Default,RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_SS_HS_SetHARQProcessId (tsc_CellA,p_ProcessId)			to set the process Id appropriately
2		+ts_SS_Set_HS_AckNack (tsc_CellA, p_ProcessId, startRep)			to config SS to send Ack reports
3		+ ts_SS_Set_PhyLay_CRC_Mode_Erroneous			to configure SS for Erroneous CRC
4		+ It_Error			steps 1–2a
5		+ts_SS_HS_SetHARQProcessId (tsc_CellA,p_ProcessId)			to set the process Id appropriately
6		+ ts_SS_Set_PhyLay_CRC_Mode_Normal			to configure SS for Normal CRC
7		+It_Correct			steps 3–5
8		+ts_SS_Set_HS_AckNack (tsc_CellA, p_ProcessId, stopRep)			to config SS to stop sending Ack reports
9		It_Error TM ! TxMAC START t_WaitMS	cas_TestDataReq(tsc_RB_MAC_HS, cs_MAC_H_PDU_1SID(tsc_QID_0, p_TSN, tsc_SID_0,tsc_NumOfPDU_1,cs_MAC_D_PDU_NoHeader_AMD(c_AMD_LIs(p_RLC_SQN, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM), tsc_PAD_8Bit))		Step 1

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		CPHY?CPHY_HS_DPCCH_AckNack_IND CANCEL t_WaitMS	car_CPHY_HS_DPCCH_N ack_IND (tsc_CellA, p_ProcessId)	(P)	step 2
11		START t_WaitMS(5000)			step 2a
12		? TIMEOUT t_WaitMS		(P)	
13		TM ? RxMAC CANCEL t_WaitMS	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(?, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(F)	
14		? TIMEOUT t_WaitMS It_Correct		(F)	Step 3
15		TM ! TxMAC START t_WaitMS	cas_TestDataReq(tsc_RB_M AC_HS, cs_MAC_H_PDU_1SID(tsc _QID_0, p_TSN, tsc_SID_0,tsc_NumOfPDU _1,cs_MAC_D_PDU_NoHe ader_AMD(c_AMD_LIs(p_R LC_SQN, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM)) , tsc_PAD_8Bit))		
16		CPHY?CPHY_HS_DPCCH_AckNack_IND	car_CPHY_HS_DPCCH_A ck_IND (tsc_CellA, p_ProcessId)	(P)	Step 4
17		TM ? RxMAC CANCEL t_WaitMS	car_TestDataInd(tsc_RB_M AC_HS, cr_AMD_LIs(p_RLC_SQN, c_LIs1_7BitLIs(tsc_LI7_SD U_39B), tsc_RB_TestData_312_AM))	(P)	step 5
18		? TIMEOUT t_WaitMS		(F)	
19		? TIMEOUT t_WaitMS		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_Set_HS_AckNack (p_CellId, p_ProcessId: INTEGER;p_Ack: AckNackReportReq) Group : Objective : To configure/ MAC_HS to send Ack's to TTCN/stop sending Acks to TTCN Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_HS_DPCCH_AckNack_REQ	cas_CPHY_HS_DPCCH_AckNack_REQ(p_CellId, p_ProcessId, p_Ack)		
2		CPHY ? CPHY_HS_DPCCH_AckNack_CNF	car_CPHY_HS_DPCCH_AckNack_CNF(p_CellId)		
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : ts_SS_Set_PhyLay_CRC_Mode_Erroneous

Group :

Objective :

Default : InitOtherwiseFail

Comments : Configure TM RLC entity in SS for RLC testing. The given RB identity can be used by the SS decoder to determine which RLC mode is being simulated.

The UE entity should be configured as an AM or UM entity using the same transport block size. This allows the RLC header information to be specified and / or inspected by the TTCN.

DL Logical channel mapping list for RLC tests. The DTCH RAB for RLC testing is mapped to DCH1. The SRBs are mapped to DCH5.

Parameters

p_CellId:

The cell to be used to configure the new RLC entity.

p_Payload:

The TM payload size in bits. This should be equal to the simulated AM or UM payload size, plus the relevant RLC header size.

p_RB_Identity:

The RB Id to be used within the SS. Different values can be used by the SS decoder to determine which RLC mode is being simulated.

Expected values:

-10 => UM7

-11 => UM15

-12 => AM7

-13 => AM15

CRLC is configured with cellId -1 (tsc_CellDedicated)

Description :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_HS_DSCH_CRC_Mode_REQ	cas_CPHY_HS_DSCH_CR C_Mode_Err_REQ(tsc_Cell A,tsc_HSPDSCH,tsc_Def_ Mac_D_FlowId)		
2		CPHY ? CPHY_HS_DSCH_CRC_Mode_CNF	car_CPHY_HS_DSCH_CR C_Mode_CNF(tsc_CellA,tsc_ _HSPDSCH)		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ts_SS_Set_PhyLay_CRC_Mode_Normal

Group :

Objective :

Default : InitOtherwiseFail

Comments : Configure TM RLC entity in SS for RLC testing. The given RB identity can be used by the SS decoder to determine which RLC mode is being simulated.

The UE entity should be configured as an AM or UM entity using the same transport block size. This allows the RLC header information to be specified and / or inspected by the TTCN.

DL Logical channel mapping list for RLC tests. The DTCH RAB for RLC testing is mapped to DCH1. The SRBs are mapped to DCH5.

Parameters

p_CellId:

The cell to be used to configure the new RLC entity.

p_Payload:

The TM payload size in bits. This should be equal to the simulated AM or UM payload size, plus the relevant RLC header size.

p_RB_Identity:

The RB Id to be used within the SS. Different values can be used by the SS decoder to determine which RLC mode is being simulated.

Expected values:

-10 => UM7

-11 => UM15

-12 => AM7

-13 => AM15

CRLC is configured with cellId -1 (tsc_CellDedicated)

Description :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_HS_DSCH_CRC_Mode_REQ	cas_CPHY_HS_DSCH_CRC_Mode_Norml_REQ(tsc_CellA,tsc_HSPDSCH,tsc_Def_Mac_D_FlowId)		
2		CPHY ? CPHY_HS_DSCH_CRC_Mode_CNF	car_CPHY_HS_DSCH_CRC_Mode_CNF(tsc_CellA,tsc_HSPDSCH)		

Detailed Comments :

Test Step Dynamic Behaviour					
<p>Test Step Name : ts_SS_RB_TM_Cfg_RLC_r5 (p_PayLoad: INTEGER; p_RB_Identity: SS_RB_Identity)</p> <p>Group :</p> <p>Objective :</p> <p>Default : InitOtherwiseFail</p> <p>Comments : Configure TM RLC entity in SS for RLC testing. The given RB identity can be used by the SS decoder to determine which RLC mode is being simulated.</p> <p>The UE entity should be configured as an AM or UM entity using the same transport block size. This allows the RLC header information to be specified and / or inspected by the TTCN.</p> <p>DL Logical channel mapping list for RLC tests. The DTCH RAB for RLC testing is mapped to DCH1. The SRBs are mapped to DCH5.</p> <p>Parameters</p> <p>p_CellId: The cell to be used to configure the new RLC entity.</p> <p>p_Payload: The TM payload size in bits. This should be equal to the simulated AM or UM payload size, plus the relevant RLC header size.</p> <p>p_RB_Identity: The RB Id to be used within the SS. Different values can be used by the SS decoder to determine which RLC mode is being simulated.</p> <p>Expected values: -10 => UM7 -11 => UM15 -12 => AM7 -13 => AM15</p> <p>CRLC is configured with cellId -1 (tsc_CellDedicated)</p>					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Config_REQ	ca_RB_TM_Info_r5(tsc_CellDedicated, p_RB_Identity, p_PayLoad, { uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1 })		
2		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(tsc_CellDedicated, p_RB_Identity)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify_NoMacHeader (p_CellId : INTEGER;p_TrLogMappin_HS : MAC_hs_AddReconfQueue) Group : Objective : To configure SS to packet CELL_DCH / HS-DSCH. DL: [max bit rate depending on UE category] / PS RAB UL DCH: 384 kbps Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ It_DL_DPCH_Modify			to downgrade Signalling Channels in DL to 3.4
3		+ ts_SS_HS_DSCH_PDSCH_Cfg_NoMacHeader (p_CellId,p_TrLogMappin_HS)			to configure HSDPA channels
4		+It_UL_DPCH_Modify			to modify UL DPCH
5		It_DL_DPCH_Modify CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo_r5 (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_SRB_HS(tcv_TmpCellInfo.dl_DPCH_2ndScrCode , tsc_Sfc256_C0), tcv_ActTime, TRUE)		
6		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
7		CPHY!CPHY_TrCH_Config_REQ	ca_DCH_148_DL (p_CellId, tsc_DL_DPCH1, tcv_ActTime)		
8		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated , tsc_DL_DPCH1, c_UE_Info(OMIT, OMIT), c_TrChInfoDL_34_StandAlone, c_TrLogMappingDL_4DCC H, tcv_ActTime)		
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated , tsc_DL_DPCH1)		
		It_UL_DPCH_Modify			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_ HSENH(p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_InfoACK_H SENH (tsc_UL_DPDCH_SF_64k_ PS, pl0_96, tcv_TmpCellInfo.uL_Scrambl ingCode,tcv_HS_Cfg) ,tcv_ActTime,tcv_HS_Cfg)		UL 64 KBPS
12		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_UL_DPCH1)		
13		CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_CellId, tsc_UL_DPCH1, c_TrChConfigTypeDCH_No SHO, cb_DCH_336_148_UL_Inf o (tcv_ActTime))		
14		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		
15		CMAC ! CMAC_Config_REQ	ca_CMACEReconfigInfo(tsc_CellDedicated , tsc_UL_DPCH1, c_UE_Info(OMIT, OMIT), cb_TrChInfoUL_336_148, cd_TrLogMappingUL_4DC CH_1DTCH_HS_NoMacHe ader,tcv_ActTime)		
16		CMAC ? CMAC_Config_CNF	ca_CMACECfgCnf(tsc_CellDedicated , tsc_UL_DPCH1)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_SS_HS_DSCH_PDSCH_Cfg_NoMacHeader (p_CellId : INTEGER;p_TrLogMappin_HS : MAC_hs_AddReconfQueue) Group : Objective : To configure SS toHS-DPA related RL, Transport and MAC DL: [max bit rate depending on UE category] / PS RAB Default : SS_Def Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY ! CPHY_RL_Setup_REQ	ca_DL_HSPDSCH_Info (p_CellId, tsc_HSPDSCH, c_DL_Cell_DCH_HS_DSC H_PS_RAB (tcv_HS_Cfg.phyLayCategory, tcv_HS_Cfg.hRNTI, c_DL_HSPDSCH_Information (c_HS_SCCH_Info, c_Measurement_Feedback_Info(tcv_HS_Cfg)), FALSE, tcv_HS_Cfg.hs_SCCH_TxPo))		
2		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_HSPDSCH)		
3		CPHY ! CPHY_TrCH_Config_REQ	ca_HSDSCH_DL_InfoActNow (p_CellId, tsc_HSPDSCH, nonDch : NULL, c_HS_DSCHMacdFlows (c_HARQ_Info(tcv_HS_Cfg.numberOfProcesses), c_SS_AddOrReconfMAC_dFlow (c_SS_MAC_hs_AddReconfQueue (p_TrLogMappin_HS)), tcv_HS_Cfg.ackNackRepetitionFactor))		
4		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_HSPDSCH)		
5		+ ts_SS_HS_TFRC_ExplicitCfg (p_CellId)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_HSPDSCH, c_UE_Info (OMIT, OMIT), c_TrChInfoHSSCCH (c_HS_DSCHMacdFlows(c_HARQ_Info(tcv_HS_Cfg. numberOfProcesses), c_SS_AddOrReconfMAC_d Flow (c_SS_MAC_hs_AddRecon fQueue (p_TrLogMappin_HS)), tcv_HS_Cfg.ackNackRepeti tionFactor)), c_TrLogMappingDL_MAC_ HS_NoMacHeader) ca_CMAC_CfgCnf (p_CellId, tsc_HSPDSCH)		
7		CMAC ? CMAC_Config_CNF			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SendRB_SetUpMAC_HS_LoopBack (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime: ActivationTime;p_PayLoad: INTEGER;p_TrLogMappin_HS : MAC_hs_AddReconfQueue; p_RB_Setup:DL_DCCH_Message)					
Group :					
Objective : To setup a RADIO BEARER cell_DCH_HS_DSCH and to reconfigure the SS accordingly.					
Default : RRC_Def1					
Comments : This Step is used by RLC test cases.					
See TS 34.108 clause 6.10.2.4.1.26					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	TSP	+ ts_SetTmpCellInfo (p_CellId)	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		
2		+ It_SendRB_Setup			
3		AM ? RLC_AM_DATA_CNF			
4		+ ts_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify_NoMacHeader(tsc_CellA,p_TrLogMappin_HS)			
5		+ ts_SS_RB_TM_Cfg_RLC_r5 (p_PayLoad, tsc_RB_MAC_HS)			
6		+ ts_RRC_ReceiveRB_SetupCmplHS (p_CellId , cell_One_DTCH_HS_DSCH_MAC)			
7		It_SendRB_Setup AM ! RLC_AM_DATA_REQ (tcv_HS_Cfg.hRNTI := tsc_NewHRNTI)	cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, p_RB_Setup)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ts_RRC_SetUpRAB_HS_LoopBack (<p> p_CellId: INTEGER; p_RAB_Id : BITSTRING;p_ActTime:ActivationTime; p_PayLoad: INTEGER;p_TrLogMappin_HS : MAC_hs_AddReconfQueue; p_RB_Setup:DL_DCCH_Message) </p> Group : Objective : To setup a RADIO BEARER for different configuration and to reconfigure the SS accordingly. Default : RRC_Def1 Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_RRC_SendRB_SetUpMAC_HS_LoopBack (<p> p_CellId, p_RAB_Id, p_ActTime,p_PayLoad,p_TrLogMappin_HS,p_RB_Setup) </p>			
2		+ ts_SetCellCfg (p_CellId, cell_One_DTCH_HS_DSCH_MAC)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : pr_GotoState6_7_MT_LoopBack (p_CellId : INTEGER) Group : Objective : Default : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_RAT=fdd]			FDD specific behaviour
2		+ts_SS_CreateCellDCH_r5 (p_CellId)			Configure lower tester
3		+ts_SendDefSysInfo (p_CellId)			Sends the default system information in CellA
4		+ts_IdleUpdated_r5 (p_CellId)			Idle Update and bring UE to CELL_DCH state and release the connection again
5		+ ts_RRC_ConnEstPS_MT_P5_P6_r5 (p_CellId)			
6		+ ts_RRC_Security_r5 (p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			
7		+ts_TC_ActivateRB_TestMode (p_CellId)			
8		[TRUE]			
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : NAS_OtherwiseFail Group : NAS_Defaults/ Objective : To match unexpected events and fail the test case. Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	DFI1	?TIMEOUT t_Guard	ca_MMI_CmdReq ("The guard timer has run out. Please take appropriate measures")	(I)	1.
2		Ut ! MMI_CmdReq			4.
3		Ut ? MMI_CmdCnf			
4		[tcv_TestBody = FALSE]			
5	DFF1	CANCEL	ca_MMI_CmdCnf	(F)	
6		[tcv_TestBody = TRUE]			
7		CANCEL			
8		Dc ? RRC_DataInd[tcv_MM_TestExecution]			6.
9	DFI8	Dc ! RRC_DataReq	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v,?)) ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_AttachRej('07'O))	(I)	7.
10		RETURN			
11		?TIMEOUT t_TimeoutInDefault			
12		(tcv_TimeoutInDefault := TRUE)			
13	DFF8	RETURN	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v,?))	(F)	
14		?TIMEOUT			
15		[tcv_TestBody = FALSE]			
16		CANCEL			
17	DFF8	[tcv_TestBody = TRUE]	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v,?))	(F)	
18		CANCEL			
19		Dc ? RRC_DataInd [tcv_GMM_AttachExpect = TRUE] (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_CellIndInfo.start_PS := RRC_DataInd.start , tcv_GMM_AttachRec := TRUE)			ATTACH REQUE ST – Extract Attach type requeste d
20		RETURN			
21		Dc ? RRC_DataInd [tcv_ReceivePS_ServiceReq = TRUE]	car_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_ServiceRequest (c_ServiceType_v(?), c_MobileIdAny_lv, ?))		SERVIC E REQUE ST
22		RETURN			

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		Dc ? RRC_DataInd [tcv_GMM_RAU_Expect = TRUE](tcv_TmpRAU_ReqPDU := RRC_DataInd.msg, tcv_CellIndInfo.start_PS := RRC_DataInd.start , tcv_GMM_RAU_Rec := TRUE)	car_PS_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cbr_RA_UpdReqAny (c_GMM_UpdateType_v(?,?) , c_RAI_Any_v, ?))		ROUTIN G AREA UPDAT E REQUE ST
24		RETURN			
25		Dc ? RRC_DataInd [tcv_GMM_DetachExpect = TRUE](tcv_GMM_DetachExpect := FALSE)	car_PS_UplinkDirectTransfe r (tsc_CellDedicated , tsc_RB3, cr_DetachRequest_MO)		DETAC H REQUE ST
26		RETURN			
27	DFI2	Dc?OTHERWISE [tcv_TestBody = FALSE]		(I)	2.
28		CANCEL			3.
29	DFF2	Dc?OTHERWISE [tcv_TestBody = TRUE]		(F)	5.
30		CANCEL			3.
31		CRLC?CRLC_Integrity_Failure_IND	car_CRLC_IntegrityFail		
32	DFF3	[tcv_CellIndInfo.integrityStarted]		(F)	
33		RETURN			
34		[NOT tcv_CellIndInfo.integrityStarted]			
35		RETURN			
Detailed Comments : 1. The guard timer times out, inconclusive. 2. If unexpected data is received in the preambles or postambles, a preliminary inconclusive verdict is assigned, and the test case is terminated. 3. Cancel of all running timers. 4. Depending upon the context appropriate measures may differ: the guard timer duration may be increased, operator action during a test may be speeded up, ... 5. If unexpected data is received in the test body, a preliminary failure verdict is assigned, and the test case is terminated. 6. ATTACH REQUEST with any contents received during MM_TestExecution 7. ATTACH REJECT with cause 'GPRS services not allowed' 8. DETACH REQUEST received during MM_TestExecution 9. DETACH ACCEPT					

Default Dynamic Behaviour					
Default Name : NAS_OtherwiseFailActRB_TM Group : NAS_Defaults/ Objective : To match unexpected events and fail the test case. Any Setup or Activate PDP context request message can be received and ignored. Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Dc ? RRC_DataInd [tcv_CN_Domain = cs_domain]	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_SetupMO_Any)		0.
2		RETURN			
3		Dc ? RRC_DataInd [tcv_CN_Domain = ps_domain]	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqMO_Any)		0.
4		RETURN			
5		?TIMEOUT t_Guard			1.
6		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("The guard timer has run out. Please take appropriate measures")		4.
7		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
8		[tcv_TestBody = FALSE]			
9	DFI1	CANCEL		(I)	
10		[tcv_TestBody = TRUE]			
11	DFF1	CANCEL		(F)	
12		Dc ? RRC_DataInd [tcv_ReceivePS_ServiceReq = TRUE]	car_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_ServiceRequest (c_ServiceType_v(?), c_MobileIdAny_lv, ?))		SERVICE REQUEST
13		RETURN			
14	DFI2	Dc?OTHERWISE [tcv_TestBody = FALSE]		(I)	2.
15		CANCEL			3.
16	DFF2	Dc?OTHERWISE [tcv_TestBody = TRUE]		(F)	5.
17		CANCEL			3.
18		CRLC?CRLC_Integrity_Failure_IND	car_CRLC_IntegrityFail		
19	DFF3	[tcv_CellIndInfo.integrityStarted]		(F)	
20		RETURN			
21		[NOT tcv_CellIndInfo.integrityStarted]			
22		RETURN			
Detailed Comments : 0. UE may send the SETUP or the Activate PDP context request message, then it shall be ignored 1. The guard timer times out, inconclusive. 2. If unexpected data is received in the preambles or postambles, a preliminary inconclusive verdict is assigned, and the test case is terminated. 3. Cancel of all running timers. 4. Depending upon the context appropriate measures may differ: the guard timer duration may be increased, operator action during a test may be speeded up, ... 5. If unexpected data is received in the test body, a preliminary failure verdict is assigned, and the test case is terminated.					

Default Dynamic Behaviour					
Default Name : IntersystemDef Group : InterSystem/ Objective : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	DFF1	CRLC?CRLC_Integrity_Failure_IND	car_CRLC_IntegrityFail	(F)	
2		RETURN			
3		AM?RLC_AM_DATA_IND	car_RRC_Status(?, tsc_RB2, cr_RRC_RrcStatus)		
4		RETURN			
5		AM?RLC_AM_DATA_IND	car_MeasRepAM(?, tsc_RB2, cr_RRC_MeasRep)		
6		RETURN			
7		UM?RLC_UM_DATA_IND	car_MeasRepUM(?, tsc_RB1, cr_RRC_MeasRep)		
8		RETURN			
9		G_L2 ? G_L2_ACCESS_IND[tcv_TestBody = TRUE]	cabr_G_L2_ACCESS_IND (?, ?, ?, ?, ?, ?)		
10		RETURN			
11		AM?RLC_AM_DATA_CNF	car_AM_DataCnf(?, tsc_RB2)		
12		RETURN			
13		TM?RLC_TR_DATA_IND	car_RRC_ConnReq(?, tsc_RB0, cr_RRC_RrcConnReqAny)		
14	DFF2	[tcv_TestBody = TRUE]		(F)	
15		RETURN			
16		[tcv_TestBody = FALSE]			
17		RETURN			
18		CPHY?CPHY_Sync_IND CANCEL t_T312	ca_SyncInd (tsc_UL_DPCH1)		
19		RETURN			
20		CPHY?CPHY_Out_of_Sync_IND CANCEL t_T312	ca_OutOfSyncInd (tsc_UL_DPCH1)		
21		RETURN			
22		G_L2 ? G_L2_UNITDATA_IND	ca_G_L2_Unitdata_Ind_Ch annelReq(?,?, 1 , ?, c_G_ChannelReq_Any)	(P)	Physical channel ID, RFN to be filled
23		RETURN			
24		G_L2 ?G_L2_UNITDATA_IND	ca_G_L2_UnitDataInd_Mea sReport(?,?,?, ?, ?, c_G_MeasReport_Any)		
25		RETURN			
26		G_L2 ? G_L2_Release_IND	cr_G_L2_Release_IND (?)		
27		RETURN			

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28		G_L2 ? G_L2_DATA_IND	cr_G_L2_DATA_IND (tsc_GSM_CellA, ? , tsc_PhyCh0, ?, ?, ?, cr_G_ClassmarkChangeAny)		
29		RETURN			
30		G_L2 ? G_L2_DATA_IND	cr_G_L2_DATA_IND (tsc_GSM_CellA, ? , tsc_PhyCh0, ?, ?, ?, cr_G_UtranClassmarkChan ge)		
31		RETURN			
32		G_L2 ?OTHERWISE			4.
33	L_103 2	CANCEL		F	5.
34		?TIMEOUT t_Guard			
35	DFI1	CANCEL		(I)	
36		AM?OTHERWISE			
37	DFI2	CANCEL		(I)	
38		UM?OTHERWISE			
39	DFI3	CANCEL		(I)	
40		TM?OTHERWISE			
41	DFI4	CANCEL		(I)	
42		CRLC?OTHERWISE			
43	DFI5	CANCEL		(I)	
44		CMAC?OTHERWISE			
45	DFI6	CANCEL		(I)	
46		CPHY?OTHERWISE			
47	DFI7	CANCEL		(I)	
Detailed Comments : 2. To throw away any irrelevant channel request. 3. To throw away any measurement report. 4. Other unexpected events, fail. 5. Cancel of all running timers.					

Default Dynamic Behaviour					
Default Name : IntersystemGPRS Group : InterSystem/ Objective : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	DFF1	CRLC?CRLC_Integrity_Failure_IND	car_CRLC_IntegrityFail	(F)	
2		RETURN			
3		AM?RLC_AM_DATA_IND	car_RRC_Status(?,		
			tsc_RB2,		
			cr_RRC_RrcStatus)		
4		RETURN			
5		AM?RLC_AM_DATA_IND	car_MeasRepAM(?,		
			tsc_RB2,		
			cr_RRC_MeasRep)		
6		RETURN			
7		UM?RLC_UM_DATA_IND	car_MeasRepUM(?,		
			tsc_RB1,		
			cr_RRC_MeasRep)		
8		RETURN			
9		G_L2 ? G_L2_ACCESS_IND	cabr_G_L2_ACCESS_IND (?, ?, ?, ?, ?, ?)		
10		RETURN			
11		G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_I ND(? , ?, cr_PacketControlAcknowledge ment)		All PCAs will be forward ed up to the TTCN. Ignore those not handled within test steps
12		RETURN			
13		G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_I ND(? , ?, cr_PacketEnhancedMeasRpt (?, ?))		
14		RETURN			PEMRs will be sent wheneve r they're turned on. Ignore those not handled in the test case
15		AM?RLC_AM_DATA_CNF	car_AM_DataCnf(?, tsc_RB2)		

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16	DFF2	RETURN	car_RRC_ConnReq(?, tsc_RB0, cr_RRC_RrcConnReqAny)	(F)	
17		TM?RLC_TR_DATA_IND			
18		[tcv_TestBody = TRUE]			
19		RETURN			
20		[tcv_TestBody = FALSE]			
21		RETURN			
22		CPHY?CPHY_Sync_IND CANCEL t_T312			
23		RETURN			
24		CPHY?CPHY_Out_of_Sync_IND CANCEL t_T312			
25		RETURN			
26	G_L2 ? G_L2_UNITDATA_IND	ca_G_L2_Unitdata_Ind_Ch annelReq(?,?, 1 , ?, c_G_ChannelReq_Any)	(P)	Physical channel ID, RFN to be filled	
27	L_103 2	RETURN	ca_G_L2_UnitDataInd_Mea sReport(?,?,?, ?, ?, c_G_MeasReport_Any)	(P)	3.
28		G_L2 ?G_L2_UNITDATA_IND			
29		RETURN			
30		G_L2 ? G_L2_Release_IND			
31		RETURN			
32		G_L2 ? G_L2_DATA_IND [(tcv_SetupExpected = TRUE)] (tcv_SetupExpected := FALSE)			
33		RETURN			
34		G_L2 ?OTHERWISE			
35		CANCEL			
36		?TIMEOUT t_Guard			
37	DFI1	CANCEL		(I)	4. 5.
38	AM?OTHERWISE				
39	DFI2	CANCEL		(I)	
40	UM?OTHERWISE				
41	DFI3	CANCEL		(I)	
42	TM?OTHERWISE				
43	DFI4	CANCEL		(I)	
44	CRLC?OTHERWISE				
45	DFI5	CANCEL		(I)	
46	CMAC?OTHERWISE				
47	DFI6	CANCEL	(I)		

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48	DFI7	CPHY?OTHERWISE		(I)	
49		CANCEL			
50		G_RLC?OTHERWISE			
51	DF18	CANCEL		(I)	
52		G_LLC?OTHERWISE			
53	DF19	CANCEL		(I)	
Detailed Comments : 2. To throw away any irrelevant channel request. 3. To throw away any measurement report. 4. Other unexpected events, fail. 5. Cancel of all running timers.					

Default Dynamic Behaviour					
Default Name : InitOtherwiseFail					
Group : Init_Defaults/					
Objective :					
Comments : Handle any irrelevant sync/outsync indications during cell setup					
Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	DFF1	CPHY?CPHY_Sync_IND	ca_SyncInd (?)	(F)	
2		RETURN			
3		CPHY?CPHY_Out_of_Sync_IND	ca_OutOfSyncInd (?)		
4		RETURN			
5		CRLC?CRLC_Integrity_Failure_IND	car_CRLC_IntegrityFail		
6		[tcv_CellIndInfo.integrityStarted]			
7		RETURN			
8		[NOT tcv_CellIndInfo.integrityStarted]			
9		RETURN			
10		?TIMEOUT			
11	DFI8	[tcv_TestBody = FALSE]		(I)	
12		CANCEL			
13	DFF8	[tcv_TestBody = TRUE]		(F)	
14		CANCEL			
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : RRC_Def1 Group : RRC_Defaults/ Objective : To match unexpected events and fail the test case. Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		TM?RxStatus [tcv_RLC_IgnoreStatus = TRUE]	car_StatusInd(tsc_RB_AM_7_RLC)		
2		RETURN			
3		Dc ? RRC_DataInd [tcv_GMM_AttachExpect = TRUE] (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_CellIndInfo.start_PS := RRC_DataInd.start , tcv_GMM_AttachRec := TRUE)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_Iv, c_RAI_Any_v, ?))		ATTACH REQUEST – Extract Attach type requested
4		RETURN			
5		Dc ? RRC_DataInd [tcv_GMM_RAU_Expect = TRUE](tcv_TmpRAU_ReqPDU := RRC_DataInd.msg, tcv_CellIndInfo.start_PS := RRC_DataInd.start , tcv_GMM_RAU_Rec := TRUE)	car_PS_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cbr_RA_UpdReqAny (c_GMM_UpdateType_v(?,?) , c_RAI_Any_v, ?))		ROUTING AREA UPDATE REQUEST
6		RETURN			
7		Dc ? RRC_DataInd [tcv_GMM_DetachExpect = TRUE](tcv_GMM_DetachExpect := FALSE)	car_PS_UplinkDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_DetachRequest_MO)		DETACH REQUEST
8		RETURN			
9		AM?RLC_AM_DATA_IND	car_RRC_Status(?, tsc_RB2, cr_RRC_RrcStatus)		
10		RETURN			
11		AM?RLC_AM_DATA_IND	car_MeasRepAM(?, tsc_RB2, cr_RRC_MeasRep)		
12		RETURN			
13		UM?RLC_UM_DATA_IND	car_MeasRepUM(?, tsc_RB1, cr_RRC_MeasRep)		
14		RETURN			
15		AM?RLC_AM_DATA_CNF	car_AM_DataCnf(?, tsc_RB2)		
16		RETURN			
17		CPHY?CPHY_Sync_IND CANCEL t_T312	ca_SyncInd (tsc_UL_DPCH1)		
18		RETURN			
19		CPHY?CPHY_Out_of_Sync_IND CANCEL t_T312	ca_OutOfSyncInd (tsc_UL_DPCH1)		

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20	DFF0	RETURN	car_CRLC_IntegrityFail	(F)	
21		CRLC?CRLC_Integrity_Failure_IND			
22		[tcv_CellIndInfo.integrityStarted]			
23		RETURN			
24		[NOT tcv_CellIndInfo.integrityStarted]			
25		RETURN			
26	DFF1	Dc ? RRC_DataInd[tcv_MM_TestExecution]	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v,?))		
27		Dc ! RRC_DataReq			
28		RETURN			
29		Dc ? RRC_DataInd [tcv_ReceivePS_ServiceReq = TRUE]			
30		RETURN			
31		?TIMEOUT t_Guard			
32	DFF1	Ut ! MMI_CmdReq	ca_MMI_CmdReq ("The guard timer has run out. Please take appropriate measures")		4.
33		Ut ? MMI_CmdCnf			
34		[tcv_TestBody = FALSE]			
35		CANCEL			
36		[tcv_TestBody = TRUE]			
37		CANCEL			
38	DFF1	?TIMEOUT t_TimeoutInDefault	ca_MMI_CmdCnf		
39		(tcv_TimeoutInDefault := TRUE)			
40		RETURN			
41		?TIMEOUT			
42		[tcv_TestBody = FALSE]			
43		CANCEL			
44	DFF1	[tcv_TestBody = TRUE]		(I)	
45		CANCEL			
46		AM?OTHERWISE [tcv_TestBody = FALSE]			
47		CANCEL			
48		UM?OTHERWISE [tcv_TestBody = FALSE]			
49		CANCEL			
50	DFF1	TM?OTHERWISE [tcv_TestBody = FALSE]		(I)	
51		CANCEL			

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52		Dc?RRC_DataInd [tcv_TestBody = FALSE]	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cbr_Deact_PDP_ContextReq_MO(?))	(I)	2.
53	DFI5	CANCEL			3.
54		AM?OTHERWISE [tcv_TestBody = TRUE]			
55	DFF2	CANCEL		(F)	
56		UM?OTHERWISE [tcv_TestBody = TRUE]			
57	DFF3	CANCEL		(F)	
58		TM?OTHERWISE [tcv_TestBody = TRUE]			
59	DFF4	CANCEL		(F)	
60		Dc?RRC_DataInd [tcv_TestBody = TRUE]	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cbr_Deact_PDP_ContextReq_MO(?))	(F)	5.
61	DFF5	CANCEL			3.
62		CRLC?OTHERWISE			
63	DFI6	CANCEL		(I)	
64		CMAC?OTHERWISE			
65	DFI7	CANCEL		(I)	
66		CPHY?OTHERWISE			
67	DFI9	CANCEL		(I)	
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : RRC_DefConnEst Group : RRC_Defaults/ Objective : To match unexpected events during an RRC connection establishment i.e to match the repetition of RRC CONNECTION REQUEST. Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	DFF0	TM?RLC_TR_DATA_IND	car_RRC_ConnReq(?, tsc_RB0, cr_RRC_RrcConnReqAny)	(F)	
2		RETURN			
3		AM?RLC_AM_DATA_IND	car_RRC_Status(?, tsc_RB2, cr_RRC_RrcStatus)		
4		RETURN			
5		CPHY?CPHY_Sync_IND CANCEL t_T312	ca_SyncInd (tsc_UL_DPCH1)		
6		RETURN			
7		CPHY?CPHY_Out_of_Sync_IND CANCEL t_T312	ca_OutOfSyncInd (tsc_UL_DPCH1)		
8		RETURN			
9		AM?RLC_AM_DATA_IND	car_MeasRepAM(?, tsc_RB2, cr_RRC_MeasRep)		
10		RETURN			
11		UM?RLC_UM_DATA_IND	car_MeasRepUM(?, tsc_RB1, cr_RRC_MeasRep)		
12		RETURN			
13		AM?RLC_AM_DATA_CNF	car_AM_DataCnf(?, tsc_RB2)		
14		RETURN			
15		CRRLC?CRRLC_Integrity_Failure_IND	car_CRRLC_IntegrityFail		
16		[tcv_CellIndInfo.integrityStarted]			
17		RETURN			
18		[NOT tcv_CellIndInfo.integrityStarted]			
19		RETURN			
20		Dc ? RRC_DataInd [tcv_ReceivePS_ServiceReq = TRUE]	car_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_ServiceRequest (c_ServiceType_v(?), c_MobileIdAny_lv, ?))		SERVICE REQUEST
21		RETURN			
22	DFI1	?TIMEOUT t_Guard		(I)	4.
23		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("The guard timer has run out. Please take appropriate measures")		
24		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
25		[tcv_TestBody = FALSE]			
26		CANCEL			
27		[tcv_TestBody = TRUE]			

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28	DFF1	CANCEL		(F)	
29		?TIMEOUT t_TimeoutInDefault			
30		(tcv_TimeoutInDefault := TRUE)			
31		RETURN			
32		?TIMEOUT			
33		[tcv_TestBody = FALSE]			
34	DFI8	CANCEL		(I)	
35		[tcv_TestBody = TRUE]			
36	DFF8	CANCEL		(F)	
37		AM?OTHERWISE [tcv_TestBody = FALSE]			
38	DFI2	CANCEL		(I)	
39		UM?OTHERWISE [tcv_TestBody = FALSE]			
40	DFI3	CANCEL		(I)	
41		TM?OTHERWISE [tcv_TestBody = FALSE]			
42	DFI4	CANCEL		(I)	
43		AM?OTHERWISE [tcv_TestBody = TRUE]			
44	DFF2	CANCEL		(F)	
45		UM?OTHERWISE [tcv_TestBody = TRUE]			
46	DFF3	CANCEL		(F)	
47		TM?OTHERWISE [tcv_TestBody = TRUE]			
48	DFF4	CANCEL		(F)	
49		CRLC?OTHERWISE			
50	DFI5	CANCEL		(I)	
51		CMAC?OTHERWISE			
52	DFI6	CANCEL		(I)	
53		CPHY?OTHERWISE			
54	DFI7	CANCEL		(I)	
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : UT_OtherwiseFail Group : UT_Defaults/ Objective : To match unexpected events and fail the test case at the UtT PCO. Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	DFI1	Ut?OTHERWISE	car_CRLC_IntegrityFail	I	1.
2		CANCEL				2.
3	DFF2	CRLC?CRLC_Integrity_Failure_IND		(F)	
4		[tcv_CellIndInfo.integrityStarted]			
5		RETURN			
6		[NOT tcv_CellIndInfo.integrityStarted]			
7		RETURN			
8		?TIMEOUT			
9	DFI8	[tcv_TestBody = FALSE]		(I)	
10		CANCEL			
11	DFF8	[tcv_TestBody = TRUE]		(F)	
12		CANCEL			
Detailed Comments : 1. Unexpected UT MMI events, fail. 2. Cancel of all running timers.					

Default Dynamic Behaviour								
Default Name : SS_Def_Special								
Group : SS_Defaults/								
Objective : To match unexpected events during SS configuration/reconfiguration steps. This default does not send any message.								
Comments :								
Description :								
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments			
1	DFI5	?TIMEOUT t_Guard	ca_MMI_CmdReq ("The guard timer has run out. Please take appropriate measures")	(I)	4.			
2		Ut ! MMI_CmdReq						
3		Ut ? MMI_CmdCnf						
4		[tcv_TestBody = FALSE]						
5		CANCEL						
6	DFF7	[tcv_TestBody = TRUE]	ca_MMI_CmdCnf	(F)				
7		CANCEL						
8		?TIMEOUT t_TimeoutInDefault						
9		(tcv_TimeoutInDefault := TRUE)						
10		RETURN						
11	DFI8	?TIMEOUT	ca_SyncInd (?)	(I)				
12		[tcv_TestBody = FALSE]						
13		CANCEL						
14		[tcv_TestBody = TRUE]						
15		CANCEL						
16	DFF8	CPHY?CPHY_Sync_IND	ca_OutOfSyncInd (?)	(F)				
17		RETURN						
18		CPHY?CPHY_Out_of_Sync_IND						
19		RETURN						
20		Dc ? RRC_DataInd [tcv_ReceivePS_ServiceReq = TRUE]						
21		RETURN	car_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_ServiceRequest (c_ServiceType_v(?), c_MobileIdAny_lv, ?))		SERVICE REQUEST			
22		Dc ? RRC_DataInd [tcv_GMM_AttachExpect = TRUE] (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_CellIndInfo.start_PS := RRC_DataInd.start , tcv_GMM_AttachRec := TRUE)				car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))	ATTACH REQUEST – Extract Attach type requested	
23		RETURN				car_CRLC_IntegrityFail		(F)
24		CRLC?CRLC_Integrity_Failure_IND						
25		[tcv_CellIndInfo.integrityStarted]						
26	DFF5	RETURN						
27		[NOT tcv_CellIndInfo.integrityStarted]						
28		RETURN						
29		CPHY?OTHERWISE						

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30	DFI2	CANCEL		(I)	
31		CMAC?OTHERWISE			
32	DFI3	CANCEL		(I)	
33		CRLC?OTHERWISE			
34	DFI4	CANCEL		(I)	
Detailed Comments :					

Default Dynamic Behaviour						
Default Name : SS_Def						
Group : SS_Defaults/						
Objective : To match unexpected events during SS configuration/reconfiguration steps.						
Comments :						
Description :						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
1		?TIMEOUT t_Guard	ca_MMI_CmdReq ("The guard timer has run out. Please take appropriate measures")		4.	
2		Ut ! MMI_CmdReq				
3		Ut ? MMI_CmdCnf				ca_MMI_CmdCnf
4		[tcv_TestBody = FALSE]				
5		CANCEL		(I)		
6		[tcv_TestBody = TRUE]				
7		CANCEL		(F)		
8		?TIMEOUT t_TimeoutInDefault				
9		(tcv_TimeoutInDefault := TRUE)				
10		RETURN				
11		?TIMEOUT				
12		[tcv_TestBody = FALSE]				
13		CANCEL		(I)		
14		[tcv_TestBody = TRUE]				
15		CANCEL		(F)		
16		CPHY?CPHY_Sync_IND	ca_SyncInd (?)			
17		RETURN				
18		CPHY?CPHY_Out_of_Sync_IND	ca_OutOfSyncInd (?)			
19		RETURN				
20		Dc ? RRC_DataInd[tcv_MM_TestExecution]	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_Iv, c_RAI_Any_v,?))			
21		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_AttachRej('07'O))			
22		RETURN				
23		Dc ? RRC_DataInd [tcv_ReceivePS_ServiceReq = TRUE]	car_InitDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_ServiceRequest (c_ServiceType_v(?), c_MobileIdAny_Iv, ?))	SERVICE REQUEST		
24		RETURN				

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Default Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		Dc ? RRC_DataInd [tcv_GMM_AttachExpect = TRUE] (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_CellIndInfo.start_PS := RRC_DataInd.start , tcv_GMM_AttachRec := TRUE)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))		ATTACH REQUEST – Extract Attach type requested
26		RETURN			
27		CRCLC?CRCLC_Integrity_Failure_IND	car_CRCLC_IntegrityFail		
28	DFF5	[tcv_CellIndInfo.integrityStarted]		(F)	
29		RETURN			
30		[NOT tcv_CellIndInfo.integrityStarted]			
31		RETURN			
32		CPHY?OTHERWISE			
33	DFI2	CANCEL		(I)	
34		CMAC?OTHERWISE			
35	DFI3	CANCEL		(I)	
36		CRCLC?OTHERWISE			
37	DFI4	CANCEL		(I)	
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : MAC_Default Group : Objective : Comments : Description :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPHY? CPHY_HS_DPCCH_AckNack_IND [tcv_TestBody = TRUE]	car_CPHY_HS_DPCCH_Ack_IND (?,?)		
2		RETURN			
3		CPHY?CPHY_HS_DPCCH_AckNack_IND [tcv_TestBody = TRUE]	car_CPHY_HS_DPCCH_Nack_IND (?,?)		
4		RETURN			
5		CPHY? CPHY_HS_DPCCH_AckNack_IND [tcv_TestBody = FALSE]	car_CPHY_HS_DPCCH_Ack_IND (?,?)	(I)	
6		RETURN			
7		CPHY?CPHY_HS_DPCCH_AckNack_IND [tcv_TestBody = FALSE]	car_CPHY_HS_DPCCH_Nack_IND (?,?)	(I)	
8		RETURN			
Detailed Comments :					