

I

Test Suite Overview

Test Suite Structure

Suite Name : Rel4_ASCI_v420
Standards Ref : EN 300 948, EN 300 949, TS 24.067, TS 24.087, TS 24.094, GSM 04.18
PICS Ref : TS 100.607-2
PIXIT Ref : EN 300 607-3
Test Method(s) : Distributed Single Layer Test Method
Comments : Release 4 ASCI ATS v 4.2.0 after GERAN#5 (GERAN4#4)

Test Group Reference	Selection Ref	Test Group Objective	Page Nr
VGCS_VBS/	SelExpr_2101	To verify the Implicit UUS1 procedures	527
eMLPP/	SelExpr_2800		633
UUS/	SelExpr_2840		653
UUS/Implicit_UUS1/	SelExpr_2841		653
FM/	SelExpr_2870		664

Detailed Comments :

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VGCS_VBS/	TC_26_14_1_3	SelExpr_2102	VGCS-VBS / Notification / reduced NCH monitoring	535
VGCS_VBS/	TC_26_14_1_4	SelExpr_2101	VGCS-VBS / Notification / Limited service state	540
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VGCS_VBS/	TC_26_14_3_5	SelExpr_2104	VGCS-VBS / RR Procedures / handover / failure	564
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VGCS_VBS/	TC_26_14_5_1	SelExpr_2101	VGCS-VBS / Leaving group receive mode	577
VGCS_VBS/	TC_26_14_5_2	SelExpr_2103	VGCS-VBS / Leaving group transmit mode	579
VGCS_VBS/	TC_26_14_6_1	SelExpr_2106	VGCS-VBS / GCC-BCC Procedures / MO call establishment	581
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VGCS_VBS/	TC_26_14_6_5	SelExpr_2107	VGCS-VBS / GCC-BCC Procedures / Call Termination / not originator	592
VGCS_VBS/	TC_26_14_6_6	SelExpr_2103	VGCS-VBS / GCC-BCC Procedures / GCC states	593
VGCS_VBS/	TC_26_14_6_7	SelExpr_2105	VGCS-VBS / GCC-BCC Procedures / BCC states	597
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VGCS_VBS/	TC_26_14_7_3	SelExpr_2101	VGCS-VBS / Messages not addressing VGCS receive mode	608
VGCS_VBS/	TC_26_14_8_1	SelExpr_2106	VGCS-VBS / Structured Procedures / Very early and early assignment	611
VGCS_VBS/	TC_26_14_9_1	SelExpr_2101	VGCS-VBS / Cell Change / Same LA	614
VGCS_VBS/	TC_26_14_9_2	SelExpr_2101	VGCS-VBS / Cell Change / Different LA	618
VGCS_VBS/	TC_26_14_9_3	SelExpr_2101	VGCS-VBS / Cell Change / Different PLMN	622
VGCS_VBS/	TC_26_14_11_1	SelExpr_2120	VGCS/VBS/User-to-Dis patcher information/ BCCMO call	625
VGCS_VBS/	TC_26_14_11_2	SelExpr_2121	VGCS-VBS – User-to-Dispatcher information / GCC MO call	627
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VGCS_VBS/	TC_26_14_11_4	SelExpr_2121	VGCS-VBS / User-to-Dispatcher information / Compressed user information in VGCS fast call set-up	631

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eMLPP/	TC_31_12_3	SelExpr_2802	eMLPP Service / automatic answering MT VGCS/VBS call.	643
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Detailed Comments :				

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	OtherEvents_02		872
	RcvHdOvAcc		873
Detailed Comments :			

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Declarations Part

Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
B_1	BITSTRING [1]		Generic type for 1 bit value
B_2	BITSTRING [2]		Generic type for 2 bits value
B_3	BITSTRING [3]		Generic type for 3 bits value
B_4	BITSTRING [4]		Generic type for 4 bits value
B_5	BITSTRING [5]		Generic type for 5 bits value
B_6	BITSTRING [6]		Generic type for 6 bits value
B_7	BITSTRING [7]		Generic type for 7 bits value
B_8	BITSTRING [8]		Generic type for 8 bits value
B_27	BITSTRING [27]		Generic type of 27 bits
BCCHFRQ	BITSTRING [5]		position of a bcch carrier in the bcch channel list
BCC	BITSTRING [3]		BS colour code
BCDN	OCTETSTRING [1..10]		BCD numbers, GSM 04.08, 10.5.4.7, octet 4–13
BSIC	BITSTRING [6]		base station identity code
CCSTATE	INTEGER(1,3,4,6,7,8,9,10,11,12,19,26,27)		
CellID	IA5String		Cell identifier
CHANNEL	BITSTRING [2]		needed channel type
CHMOD_VAL	BITSTRING[8]		value for channel mode GSM 04.08, 10.5.2.6, 10.5.2.7
CH_TDMA	BITSTRING[5]		channel type and TDMA offset GSM 04.08, 10.5.2.5
CI	OCTETSTRING [2]		cell identity, GSM 04.08, 10.5.1.1
CKSN	BITSTRING[3]		ciphering key sequence number(only key sequence) GSM 04.08, 10.5.1.2
CLRSUP	BITSTRING('10100001'B)		CLIR suppression GSM 04.08, 10.5.4.11a
CLRINV	BITSTRING('10100010'B)		CLIR invocation GSM 04.08, 10.5.4.11b
CMSVTYPE	BITSTRING [4]		CM service type
CPHALG	BITSTRING[3]		Ciphering algorithm identifier GSM 04.08, 10.5.2.9
CS	BITSTRING [2]		coding standard
EstMode	OCTETSTRING [1]		establish mode
EXTB	BITSTRING [1]		extension bit
FLWCNTL	INTEGER(0, 1, 2)		type of flow control. 0---outband flow control; 1---inband flow control; 2--- no flow control
HORF	BITSTRING [8]		handover reference
HSN	BITSTRING[6]		Hopping sequence number e.g.GSM 04.08 10.5.2.5
IDTYPE	B_4		identity type
IEI_4	BITSTRING [4]		information element identifier, type 1

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Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
IEI_8	BITSTRING [8]		information element identifier, type 2–4
LENGTH	OCTETSTRING [1]		IE length or L2 pseudo length. The L2 pseudo length is composed of a L2 pseudo length value, which is 6 bits long, and of 2 additional bits. See GSM 04.08 section 10.5.2.19
LOGICCH	IA5String		
LOGCH	IA5String		
MAIO	BITSTRING[6]		MAIO,GSM 04.08 10.5.2.5
MAXTXPOW	INTEGER(0..31)		Max Tx Power Level GSM 04.08, 10.5.2.4
MT	BITSTRING[8]		message type, structure of it see MT0
NCC	BITSTRING [3]		PLMN colour code
NCCP	OCTETSTRING [1]		ncc permitted
PD	B_4		Protocol discriminator
PGG	BITSTRING [8]		the paging group of an MS to be paged in binary presentation
RATE	IA5String ("F", "H", "Fv2")		
RAND	BITSTRING [128]		random number
RelMode	OCTETSTRING [1]		release mode
REJCAU	OCTETSTRING [1]		reject cause GSM 04.08, 10.5.3.6
RPI	BITSTRING [8]		repeat indicator
RRCAU	BITSTRING [8]		RR cause GSM 04.08, 10.5.2.31
RXLEV	BITSTRING [6]		received signal strength
SAPID	OCTETSTRING [1]		sap identifier

Simple Type Definitions			
Type Name	Type Definition	Type Encoding	Comments
SERVICES	IA5String ("C_Telephony", "C_EmgCall", "C_AltSpchFax", "C_AutoFax", "C_Async300", "C_Async1200", "C_Async120075", "C_Async2400", "C_Async4800", "C_Async9600", "C_Sync1200", "C_Sync2400", "C_Sync4800", "C_Sync9600", "C_PAD300", "C_PAD1200", "C_PAD120075", "C_PAD2400", "C_PAD4800", "C_PAD9600", "C_Packet2400", "C_Packet4800", "C_Packet9600", "C_AltSpchData", "C_SpchData")		
SHOCT	B_4		spare half octet for type 1 information element GSM 04.08, 10.5.1.8
SKI	B_4		Skip indicator
SN	BITSTRING [3]		all possible slot number, GSM 04.08 10.5.2.5
SPB	B_1		spare bit
SP2B	B_2		2 spare bits
SP3B	B_3		3 spare bits
SP5B	B_5		5 spare bits
SP6B	B_6		6 spare bits
SRES	OCTETSTRING [4]		authentication response signature
TSC	B_3		Training sequence code,GSM 04.08 10.5.2.5
T1	BITSTRING [11]		
T1_	B_5		T1'
T2	B_5		
T3	BITSTRING [6]		
T3_	B_3		T3'
TI_V	B_3		TI value
TMSI_V	OCTETSTRING[4]		TMSI value is octetstring of length 4
WI	HEXSTRING [2]		wait indication, unit in second
Detailed Comments :			

Structured Type Definition

Type Name : KPF
(keypad facility)

Encoding Variation :

Comments	: keypad facility GSM 04.08 clause 10.5.4.17
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Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		keypad facility identity, '00101100'B
extb	EXTB		extension bit ('0'B)
kpf_info	IA5String [1]		one DTMF digit (IA5 character)

Detailed Comments : Is extb needed?

Structured Type Definition

Type Name : ACST

Encoding Variation :

Comments	: Auxiliary states (CC information element) GSM 04.08, 10.5.4.4
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Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00100100'B
iel	LENGTH		
extb	EXTB		extension bit
sp3b	SP3B		3 spare bits
has	BITSTRING [2]		hold auxiliary state
mpas	BITSTRING [2]		multi party auxiliary state

Detailed Comments :

Structured Type Definition

Type Name : ALPT

Encoding Variation :

Comments	: Alerting pattern GSM 04.08, 10.5.4.26
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Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00100100'B
iel	LENGTH		
sp4b	B_4		4 spare bits
alptv	B_4		alerting pattern value

Detailed Comments :

Structured Type Definition			
Type Name : BARANGE			
Encoding Variation :			
Comments : BA range, GSM 04.08, 10.5.2.1a			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'73'O
iel	LENGTH		
nor	B_8		number of ranges
ranges	OCTETSTRING [3..248]		ranges
Detailed Comments :			

Structured Type Definition

Type Name : BCAP
Encoding Variation :
Comments : Bearer capability (CC information element)
GSM 04.08, 10.5.4.5

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

Continued on next page

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

Structured Type Definition			
Type Name : CAU Encoding Variation : Comments : Cause (CC information element) GSM 04.08, 10.5.4.11			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00001000'B, octet 1
iel	LENGTH		
extb3	EXTB		extension bit
cs	CS		coding standard
spb	SPB		spare bit
location	BITSTRING [4]		location, '0 – 5, 7, 12'
extb3a	EXTB		extension bit
rec	BITSTRING [7]		recommendation
extb4	EXTB		extension bit
cau_class	BITSTRING [3]		cause class
cau_va	BITSTRING [4]		cause value
cau_di	OCTETSTRING [1..28]		Diagnostics
Detailed Comments : &COMMON_U06			

Structured Type Definition			
Type Name : CAUV Encoding Variation : Comments : cause VGCS GSM 04.68, 9.4.3			
Element Name	Type Definition	Field Encoding	Comments
length	B_8		length M BISTRING [8]
cau1	CAUV_IE		cause O
cau2	CAUV_IE		cause O
cau3	CAUV_IE		cause O
cau4	CAUV_IE		cause O
cau5	CAUV_IE		cause O
cau6	CAUV_IE		cause O
cau7	CAUV_IE		cause O
cau8	CAUV_IE		cause O
cau9	CAUV_IE		cause O
cau10	CAUV_IE		cause O
Detailed Comments :			

Structured Type Definition			
Type Name : CAUV_IE Encoding Variation : Comments : cause VGCS GSM 04.68 & 04.69, 9.4.3			
Element Name	Type Definition	Field Encoding	Comments
caui	B_1		cause indicator M BITSTRING[1]
cauv	B_7		cause value M BITSTRING[7]
diag	OCTETSTRING		diagnostics O
Detailed Comments :			

Structured Type Definition			
Type Name : CCCAP Encoding Variation : Comments : Call Control Capabilities GSM 04.08, 10.5.4.5a			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00010101'B
iel	LENGTH		length of call control capabilities contents
spr	BITSTRING [7]		spare bits '0000000'B
dtmf	BITSTRING [1]		indication of supporting DTMF
Detailed Comments :			

Structured Type Definition			
Type Name : CCD Encoding Variation : Comments : Control channel description GSM 04.08, 10.5.2.11			
Element Name	Type Definition	Field Encoding	Comments
spr1	BITSTRING [1]		spare bit
att	BITSTRING [1]		attach–detach allowed
babr	BITSTRING [3]		base station access grant blocks reservation
ccch_con	BITSTRING [3]		number of physical channels for ccch
spr2	BITSTRING [5]		spare bits
bpm	BITSTRING [3]		number of multiframe for paging request
t3212	OCTETSTRING [1]		t3212 value
Detailed Comments :			

Structured Type Definition			
Type Name : CCHD Encoding Variation : Comments : Cell channel description GSM 04.08, 10.5.2.1b			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01100010'B
rfl	OCTETSTRING [16]		reference frequency list
Detailed Comments :			

Structured Type Definition			
Type Name : CD Encoding Variation : Comments : Cell description GSM 04.08, 10.5.2.2			
Element Name	Type Definition	Field Encoding	Comments
bcch_arfcn_h	BITSTRING [2]		bcch arfcn high part
ncc	NCC		PLMN colour code
bcc	BCC		BS colour code
bcch_arfcn_l	BITSTRING [8]		bcch arfcn low part
Detailed Comments : The info element is two octets long.			

Structured Type Definition			
Type Name : CDPN Encoding Variation : Comments : Called party BCD number (CC information element) GSM 04.08, 10.5.4.7			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01011110'B
iel	LENGTH		
tonnpi	TON_NPI		Type of number and numbering plan
digits	BCDN		BCD numbers
Detailed Comments :			

Structured Type Definition			
Type Name : CDPS Encoding Variation : Comments : Called party subaddress (CC information element) GSM 04.08, 10.5.4.8			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01101101'B
iel	LENGTH		
subad	SUBAD		Subaddress
Detailed Comments :			

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

Structured Type Definition			
Type Name : CGPN Encoding Variation : Comments : Calling party BCD number (CC information element) GSM 04.08, 10.5.4.9			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01011100'B
iel	LENGTH		
tonnpi	TON_NPI		Type of number and numbering plan
pis	PI_SI		Presentation indicator & screening indicator
digits	BCDN		BCD numbers
Detailed Comments :			

Structured Type Definition			
Type Name : CGPS Encoding Variation : Comments : Calling party subaddress (CC information element) GSM 04.08, 10.5.4.10			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01011101'B
iel	LENGTH		
subad	SUBAD		Subaddress
Detailed Comments :			

Structured Type Definition			
Type Name : CHD Encoding Variation : Comments : Channel description GSM 04.08, 10.5.2.5, 10.5.2.5a			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01100100'B, '1C'O, '1D'O
cht_schn	BITSTRING [5]		channel type and TDMA offset
tn	BITSTRING [3]		timeslot number
tsc	BITSTRING [3]		training sequence code
hch	BITSTRING [1]		hopping channel
maio	BITSTRING [6]		mobile allocation index offset – hopping
hsn	BITSTRING [6]		hopping sequence number – hopping
spr	BITSTRING [2]		'00'B – non hopping
arfcn	BITSTRING [10]		absolute RF channel number – non hopping
Detailed Comments :			

Structured Type Definition			
Type Name : CHMOD Encoding Variation : Comments : Channel mode, channel mode2 GSM 04.08, 10.5.2.6, 10.5.2.7			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'63'O, '66'O, '11'O, '12'O – '18'O
mode	B_8		
Detailed Comments :			

Structured Type Definition			
Type Name : CHNEED Encoding Variation : Comments : Channels needed GSM 04.08, 10.5.2.8			
Element Name	Type Definition	Field Encoding	Comments
ch2	CHANNEL		needed channel 2 O
ch1	CHANNEL		needed channel 1 M
Detailed Comments :			

Structured Type Definition			
Type Name : CNN Encoding Variation : Comments : Connected number (CC information element) GSM 04.08, 10.5.4.13			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01001100'B
iel	LENGTH		
tonnpi	TON_NPI		Type of number and numbering plan
psi	PI_SI		Presentation indicator & screening indicator
digits	BCDN		BCD numbers
Detailed Comments :			

Structured Type Definition			
Type Name : CNS Encoding Variation : Comments : Connected subaddress (CC information element) GSM 04.08, 10.5.4.14			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01001101'B
iel	LENGTH		
subad	SUBAD		Subaddress
Detailed Comments :			

Structured Type Definition			
Type Name : CO Encoding Variation : Comments : Cell options (BCCH / SACCH) GSM 04.08, 10.5.2.3			
Element Name	Type Definition	Field Encoding	Comments
sprb	BITSTRING [1]		spare bit for CO/BCCH, dtxh for half rate
pwr	BITSTRING [1]		power control indicator
dtx	BITSTRING [2]		CO/BCCH: discontinuous transmission indicator, CO/SACCH: DTX–F for the full rate
rlt	BITSTRING [4]		radio link timeout
Detailed Comments :			

Structured Type Definition			
Type Name : CPHMS Encoding Variation : Comments : Cipher mode setting GSM 04.08, 10.5.2.9			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		'1001'B
algid	BITSTRING [3]		algorithm identifier
sc	BITSTRING [1]		starting ciphering
Detailed Comments :			

Structured Type Definition			
Type Name : CPHKSN Encoding Variation : Comments : Ciphering key sequence number GSM 04.08, 10.5.1.2			
Element Name	Type Definition	Field Encoding	Comments
sprb	BITSTRING [1]		spare bit '0'B
ks	BITSTRING [3]		key sequence
Detailed Comments :			

Structured Type Definition			
Type Name : CPH_RES Encoding Variation : Comments : Cipher response GSM 04.08, 10.5.2.10			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		'1010'B
sprb	BITSTRING [3]		spare bits
cr	BITSTRING [1]		cipher response bit
Detailed Comments :			

Structured Type Definition			
Type Name : CSP Encoding Variation : Comments : Cell selection parameters GSM 04.08, 10.5.2.4			
Element Name	Type Definition	Field Encoding	Comments
crh	BITSTRING [3]		cell reselected hysteresis
mtmc	BITSTRING [5]		MS maximum TX power for CCH
acs	BITSTRING [1]		additional reselect parameter indicator
neci	BITSTRING [1]		half rate support
ram	BITSTRING [6]		MS minimum received signal level
Detailed Comments :			

Structured Type Definition			
Type Name : CST Encoding Variation : Comments : Call status (CC information element) GSM 04.08, 10.5.4.6			
Element Name	Type Definition	Field Encoding	Comments
CS	CS		coding standard
CSV	BITSTRING [6]		call status value
Detailed Comments :			

Structured Type Definition			
Type Name : CSTV Encoding Variation : Comments : call state, GSM 04.68 9.4.2			
Element Name	Type Definition	Field Encoding	Comments
type	B_4		i.e. type O BITSTRING[4]
sta	B_4		state M BITSTRING[4]
Detailed Comments :			

Structured Type Definition			
Type Name : C_UTDI Encoding Variation : Comments : User-user GSM 04.68 GSM 04.69, 9			
Element Name	Type Definition	Field Encoding	Comments
uupd	BITSTRING [8]		user-user protocol discriminator
uui	OCTETSTRING [5]		user user information
Detailed Comments : In IMMEDIATE SETUP 2			

Structured Type Definition			
Type Name : DCR			
Encoding Variation :			
Comments : Descriptive group or broadcast call reference GSM 04.08, 10.5.1.9			
Element Name	Type Definition	Field Encoding	Comments
gbcref	B_27		SF service flag AF acknowledgment flag call priority ciphering information
sf	B_1		
af	B_1		
callpr	B_3		
ciphinfo	B_4		
Detailed Comments : &COMMON_U06			

Structured Type Definition			
Type Name : Dm_TBF Encoding Variation : Comments : Dedicate mode or TBF GSM 04.08, 10.5.2.25b			
Element Name	Type Definition	Field Encoding	Comments
spb	B_1		spare bit
tma	B_1		two msg assignment
d	B_1		Downlink
td	B_1		TBF/Dedicate mode
Detailed Comments :			

Structured Type Definition			
Type Name : EFR_BCAP_3A_ETC Encoding Variation : Comments : Speech Versions preferences as supported by the EFR mobile – see GSM 04.08/10.5.4.5/octet 3a etc/"speech version indication"			
Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		Octet a1, Extension bit ('0'B or '1'B)
cod	BITSTRING[1]		Octet a1, Coding ('0'B)
spr2	BITSTRING[2]		Octet a1, Spare bits ('00'B)
svi	BITSTRING [4]		Octet a1, Speech version indication
Detailed Comments :			

Structured Type Definition			
Type Name : FIE Encoding Variation : Comments : Facility information element GSM 04.80, 3.6			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00011100'B
iel	LENGTH		
components	Components		Components of asn.1 type, for receiving uplink components
Detailed Comments : When sending normally only one component is sent, but when receiving any number of components can be received even though normally we are only interested in one component during the testing.			

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

Structured Type Definition			
Type Name : FRQCHS Encoding Variation : Comments : Frequency channel sequence GSM 04.08, 10.5.2.12			
Element Name	Type Definition	Field Encoding	Comments
iei larfcn incs	IEI_8 OCTETSTRING [1] OCTETSTRING [8]		'01101001'B, '1E'O lowest ARFCN (1–124) increment skip ARFCN n
Detailed Comments :			

Structured Type Definition			
Type Name : FRQL Encoding Variation : Comments : Frequency list, frequency short list GSM 04.08, 10.5.2.13, 10.5.2.14			
Element Name	Type Definition	Field Encoding	Comments
iei iel fl	IEI_8 LENGTH OCTETSTRING		'00000101'B, '00000010'B OCTETSTRING [1] list of the absolute radio frequency channel numbers
Detailed Comments : frequency short list has a fixed length of 10 octets and does not contain the length indicator.			

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

Structured Type Definition			
Type Name : GCHD Encoding Variation : Comments : Group channel description, GSM 04.08, 10.5.2.14b			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'74'O
iel	LENGTH		3–11
chd	CHD		without CHD iei
ma	MA		without MA iei, iel
Detailed Comments :			

Structured Type Definition			
Type Name : GCI Encoding Variation : Comments : Group call information GSM 04 08, 9.1.21a			
Element Name	Type Definition	Field Encoding	Comments
gbcr	DCR		descriptive group or broadcast call reference M OCTETS [4.5]
gchdi	B_1		group channel description indicator M BITSTRING[1]
gchd	GCHD		channel description O BITSTRING[24]
hci	B_1		hopping case indicator M BITSTRING[1]
mai	B_1		mobile allocation indicator M BITSTRING[1]
ma	MA		mobile allocation O
fsli	B_1		frequency short list indicator M BITSTRING[1]
fsl	BITSTRING[64]		frequency short list C lh=0 lh1=1 lh2=1 lh3=1 BITSTRING[64]
Detailed Comments :			

Structured Type Definition			
Type Name : GCKN Encoding Variation : Comments : Group cipher key number, GSM 04.08, 9.1.7.2			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		'8x'O
gckn	B_4		group cipher key number
Detailed Comments :			

Structured Type Definition			
Type Name : GCR Encoding Variation : Comments : Group Call reference GSM 04.68, 9.4.1			
Element Name	Type Definition	Field Encoding	Comments
ref	B_27		reference, M BITSTRING [27]
prid	B_1		Priority Indicator M BITSTRING [1]
sp4	B_4		Spare O BITSTRING [4]
pr	B_3		Priority O BITSTRING[3]
sp1	B_1		Spare O BITSTRING [1]
Detailed Comments : Total length = 4Octets			

Structured Type Definition			
Type Name : GPRSR Encoding Variation : Comments : GPRS Resumption GSM 04.08, 10.5.2.14c			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		'01'O
spr	SP3B		spare bits
ack	B_1		
Detailed Comments :			

Structured Type Definition			
Type Name : HLCMP Encoding Variation : Comments : High layer compatibility (CC information element) GSM 04.08, 10.5.4.16, ITU Q.931			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01111101'B
iel	LENGTH		
extb3	EXTB		extension bit ('1'B)
cs	BITSTRING [2]		coding standard
in	BITSTRING [3]		interpretation
pmpp	BITSTRING [2]		presentation method of protocol profile
extb4	EXTB		extension bit, octet 4
hlci	BITSTRING [7]		high layer characteristics identification
extb4a	EXTB		extension bit, '1'B, octet 4a
ehlci	BITSTRING [7]		extended high layer characteristics identification
Detailed Comments :			

Structured Type Definition			
Type Name : HOACC_PARA Encoding Variation : Comments : Handover access parameters			
Element Name	Type Definition	Field Encoding	Comments
num_bursts	OCTETSTRING[1]		number of bursts
min_mspwr	OCTETSTRING[1]		minimum MS power level
max_mspwr	OCTETSTRING[1]		minimum MS power level
min_msta	BITSTRING[8]		minimum timing advance
max_msta	BITSTRING[8]		maximum timing advance
Detailed Comments :			

Structured Type Definition			
Type Name : IARESTOCT Encoding Variation : Comments : GSM 04 08 10.5.2.16 IA Rest Octets			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		
iaroct1	OCTETSTRING[1..11]		p=00 format
iaroct2	IARESTOCT2		p=10 format used in TC_26_6_13_9, TC_26_6_13_10
Detailed Comments :			

Structured Type Definition			
Type Name : IARESTOCT2 Encoding Variation : Comments : 04.08, 10.5.2.16 Frequency parameter before time			
Element Name	Type Definition	Field Encoding	Comments
p	BITSTRING[2]		'10'B p=10 format
frqparalen	BITSTRING[6]		length of frequency parameters contents
spbt1	BITSTRING[2]		spare bits '00'B
maio	BITSTRING[6]		MAIO mobile allocation index offset
ma	OCTETSTRING[0..8]		MA mobile allocation
spbt2	OCTETSTRING[0..8]		spare bits '2B'O
Detailed Comments :			

Structured Type Definition			
Type Name : INF Encoding Variation : Comments : Information field GSM 04.08, 10.5.2.44			
Element Name	Type Definition	Field Encoding	Comments
nf	BITSTRING		Next frequency M
enf	B_1		End of next frequency parameter indicator M
bcci	B_1		BSS or bsic indicator M
bcc	B_3		BCC O
bsic	B_6		BSIC O
dcpi	B_1		differentials cell parameters indicator M
cb	B_1		Cell barred
crhi	B_1		cell reselect hysteresis indicator M
crh	B_3		cell reselect hysteresis O
mtmci	B_1		ms txpwr max cch indicator M
mtmc	B_5		ms txpwr max cch O
rami	B_1		rxlev access min indicator M
ram	B_6		rxlev access min O
croi	B_1		cell reselect offset indicator M
cro	B_6		cell reselect offset O
toi	B_1		temporary offset indicator M
to	B_3		temporary offset O
pti	B_1		penalty time indicator M
pt	B_5		penalty time O
Detailed Comments :			

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

Structured Type Definition			
Type Name : LAI Encoding Variation : Comments : Location area identification GSM 04.08, 10.5.1.3			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00010011'B
mcc	OCTETSTRING [2]		mobile country code, 3 digits
mnc	OCTETSTRING [1]		mobile network code, 2 BCD digits
lac	OCTETSTRING [2]		location area code
Detailed Comments :			

Structured Type Definition

Type Name : LLCMP

Encoding Variation :

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

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

Continued on next page

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

Structured Type Definition			
Type Name : LUT Encoding Variation : Comments : Location updating type GSM 04.08, 10.5.3.5			
Element Name	Type Definition	Field Encoding	Comments
foreq	BITSTRING [1]		follow-on request bit
sprb	BITSTRING [1]		spare bit '0'B
lut	BITSTRING [2]		location updating type
Detailed Comments :			

Structured Type Definition			
Type Name : MA Encoding Variation : Comments : Mobile allocation GSM 04.08, 10.5.2.21			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01110010'B, '21'O
iel	LENGTH		'00'O for non hopping
mac_8n	BITSTRING [8]		mac64 – mac57
mac_7n	BITSTRING [8]		mac56 – mac49
mac_6n	BITSTRING [8]		mac48 – mac41
mac_5n	BITSTRING [8]		mac40 – mac33
mac_4n	BITSTRING [8]		mac32 – mac25
mac_3n	BITSTRING [8]		mac24 – mac17
mac_2n	BITSTRING [8]		mac16 – mac9
mac_1n	BITSTRING [8]		mac8 – mac1
Detailed Comments :			

Structured Type Definition			
Type Name : MI Encoding Variation : Comments : Mobile identity GSM 04.08, 10.5.1.4			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00010111'B
iel	LENGTH		
idigit_1	BITSTRING [4]		first digit
oei	BITSTRING [1]		odd / even identity length
toi	BITSTRING [3]		type of identity
idigits_other	OCTETSTRING [0..7]		other digits
Detailed Comments :			

Structured Type Definition			
Type Name : MODEMTYPE Encoding Variation : Comments :			
Element Name	Type Definition	Field Encoding	Comments
V22bisOrV26ter	B_5		
Detailed Comments :			

Structured Type Definition			
Type Name : MSA Encoding Variation : Comments : Multislot allocation GSM 04.08, 10.5.2.21b			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'10'
iel	LENGTH		
extb3	EXTB		extension bit, octet 3
dan	BITSTRING [7]		downlink ass. Tn = (n+TNm)mod8
extb3a	EXTB		extension bit, octet 3a
uan	BITSTRING [7]		uplink ass. Tn = (n+TNm)mod8
chs_1n	BITSTRING [8]		tn7 – tn0 of channel set 1
chs_2n	BITSTRING [8]		tn7 – tn0 of channel set 2
chs_3n	BITSTRING [8]		tn7 – tn0 of channel set 3
chs_4n	BITSTRING [8]		tn7 – tn0 of channel set 4
chs_5n	BITSTRING [8]		tn7 – tn0 of channel set 5
chs_6n	BITSTRING [8]		tn7 – tn0 of channel set 6
chs_7n	BITSTRING [8]		tn7 – tn0 of channel set 7
chs_8n	BITSTRING [8]		tn7 – tn0 of channel set 8
Detailed Comments :			

Structured Type Definition			
Type Name : MSCLM1 Encoding Variation : Comments : mobile station classmark 1 GSM 04.08, 10.5.1.5			
Element Name	Type Definition	Field Encoding	Comments
spr1	BITSTRING [1]		spare bit '0'B
rl	BITSTRING [2]		revision level
spr2 (esind)	BITSTRING [1]		Controlled early classmark sending indicator
a5_1	BITSTRING [1]		a5/1 algorithm supported
rfpc	BITSTRING [3]		rf power capability
Detailed Comments : 2 octets long			

Structured Type Definition

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

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

Detailed Comments : 4 octets long

Structured Type Definition

Type Name : MSRR

Encoding Variation :

Comments : measurement results
GSM 04.08, 10.5.2.20

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

Continued on next page

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

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

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

Structured Type Definition			
Type Name : NTNRO Encoding Variation : Comments : GSM 04.08, 10.5.2.22c			
Element Name	Type Definition	Field Encoding	Comments
nlni	B_1		nln indicator
nln	B_2		notification list number optional
lgcii1	B_1		group call information indicator M BITSTRING[1]
gci1	GCI		group call information O
lgcii2	B_1		group call information indicator O BITSTRING[1]
gci2	GCI		group call information O
lgcii3	B_1		group call information indicator O BITSTRING[1]
gci3	GCI		group call information O
spb	BITSTRING [1..7]		spare bits, optional
spd	OCTETSTRING [1..15]		'2B..2B'O padding, optional
Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position. 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).			

Structured Type Definition			
Type Name : OIND Encoding Variation : Comments : Originator indication GSM 04.68, 9.4.4			
Element Name	Type Definition	Field Encoding	Comments
spr	B_3		spare M BITSTRING[3]
oi	B_1		OI M BITSTRING[1]
Detailed Comments :			

Structured Type Definition			
Type Name : PCHD Encoding Variation : Comments : Packet channel description and packet response GSM 04.08, 10.5.2.25a			
Element Name	Type Definition	Field Encoding	Comments
ct	BITSTRING [5]		channel type, M, ('0001'B all other values are reserved)
tn	BITSTRING [3]		time slot number, M, (0–7)
tsc	BITSTRING[3]		training sequence code, M, (0–7)
lh	BITSTRING[1]		flag, O
sp	BITSTRING[2]		'00'B, C
arfcn	BITSTRING[10]		absolute RF channel number, C, (0–1023)
man	BITSTRING[4]		mobile allocation and associated hopping sequence number and training sequence code, C, (0–15)
maio	BITSTRING[6]		mobile allocation index offset, C, (0–63)
macm	BITSTRING[2]		identification of the consistent set of SI14 messages for the decoding of MA_NUMBER field, C
Detailed Comments :			

Structured Type Definition			
Type Name : PCMD Encoding Variation : Comments : Power command and access type GSM 04.08, 10.5.2.28, 10.5.2.28a			
Element Name	Type Definition	Field Encoding	Comments
sprb	BITSTRING [3]		3 spare bits for the power command, ATC (asccess type control) and 2 spare bits for the power command and access type
pl	BITSTRING [5]		power level (0–31)
Detailed Comments :			

Structured Type Definition			
Type Name : PI Encoding Variation : Comments : Progress indicator GSM 04.08, 10.5.4.21			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00011110'B
iel	LENGTH		'00'O for non hopping
extb3	EXTB		extension bit ('0'B)
cs	BITSTRING [2]		coding standard
spb	SPB		spare bit
loc	BITSTRING [4]		location
extb4	EXTB		extension bit ('0'B)
prd	BITSTRING [7]		progress description
Detailed Comments : total 4 octets			

Structured Type Definition			
Type Name : PI_SI Encoding Variation : Comments : Presentation indicator & screening indicator GSM 04.08, 10.5.4.9, 10.5.4.13			
Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		extension bit
pi	BITSTRING [2]		presentation indicator, '0 – 2'
sp3b	SP3B		3 spare bits
si	BITSTRING [2]		screening indicator
Detailed Comments :			

Structured Type Definition			
Type Name : PM Encoding Variation : Comments : Page mode GSM 04.08, 10.5.2.26			
Element Name	Type Definition	Field Encoding	Comments
sprb	B_2		spare bits
pgm	B_2		page mode
Detailed Comments :			

Structured Type Definition

Type Name : P1RO

Encoding Variation :

Comments : GSM 04.08, 10.5.2.23

Element Name	Type Definition	Field Encoding	Comments
nlni	B_1		nln indicator (PCH)
nln	B_2		notification list number (PCH), optional
nlns	B_1		nln status, optional
pi1	B_1		priority indicator1
priority1	B_3		optional
pi2	B_1		priority indicator2
priority2	B_3		optional
gcii	B_1		group call information indicator
gci	GCI		group call information optional
ppi1	B_1		packet page indication 1
ppi2	B_1		packet page indication 2
spb	BITSTRING [1..7]		spare bits, optional
spd	OCTETSTRING [1..16]		'2B'O padding, optional

Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position.
 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).

Structured Type Definition

Type Name : P2RO

Encoding Variation :

Comments : GSM 04.08, 10.5.2.24

Element Name	Type Definition	Field Encoding	Comments
cn3i	B_1		cn3 indicator
cn3	B_2		channel needed for mobile identity 3, optional
nlni	B_1		nln indicator
nln	B_2		notification list number, optional
nlns	B_1		nln status optional
pi1	B_1		priority indicator1
priority1	B_3		optional
pi2	B_1		priority indicator2
priority2	B_3		optional
pi3	B_1		priority indicator3
priority3	B_3		optional
ppi3	B_1		packet page indication 3
spb	BITSTRING [1..7]		spare bits, optional
spd	OCTETSTRING [1..10]		'2B'O padding, optional

Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position.
 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).

Structured Type Definition			
Type Name : P3RO Encoding Variation : Comments : GSM 04.08, 10.5.2.25			
Element Name	Type Definition	Field Encoding	Comments
cni	B_1		cn3 and cn4 indicator
cn3	B_2		channel needed for mobile identity 3, optional
cn4	B_2		channel needed for mobile identity 4, optional
nlni	B_1		nln indicator
nln	B_2		notification list number, optional
nlns	B_1		nln status
pi1	B_1		priority indicator1
priority1	B_3		optional
pi2	B_1		priority indicator2
priority2	B_3		optional
pi3	B_1		priority indicator3
priority3	B_3		optional
pi4	B_1		priority indicator4
priority4	B_3		optional
spb	BITSTRING [1..7]		spare bits, optional
spd	OCTETSTRING [1..2]		'2B2B'O padding, optional
Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position. 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).			

Structured Type Definition			
Type Name : PRT Encoding Variation : Comments : Priority GSM 04.08, 10.5.1.11			
Element Name	Type Definition	Field Encoding	Comments
pliei	B_4		priority iei
sp	B_1		spare
cp	B_3		call priority
Detailed Comments :			

Structured Type Definition			
Type Name : RACHCP Encoding Variation : Comments : Rach control parameters GSM 04.08, 10.5.2.29			
Element Name	Type Definition	Field Encoding	Comments
maxrtx	BITSTRING [2]		maximum retransmissions
txint	BITSTRING [4]		Tx integer, number of slots to spread transmission
cba	BITSTRING [1]		cell barred for access
re	BITSTRING [1]		call reestablishment allowed
acc_2	BITSTRING [5]		access control class 15–11
ec	BITSTRING [1]		emergency call allowed
acc_1	BITSTRING [10]		access control class 9–0
Detailed Comments : The info element has a fixed length of 3 octets.			

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

Structured Type Definition			
Type Name : SI1RO Encoding Variation : Comments : GSM 04.08, 10.5.2.32			
Element Name	Type Definition	Field Encoding	Comments
nchi	B_1		NCH indicator, ASCII supported M
nchp	B_5		NCH position, optional
spb	BITSTRING [1..7]		spare bits, optional
Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position.			

Structured Type Definition

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

Element Name	Type Definition	Field Encoding	Comments
pi	BITSTRING [1]		Cell reselect parameter indicator, M
cbq	BITSTRING [1]		Cell bar qualify, O
cro	BITSTRING [6]		Cell reselect offset, O
to	BITSTRING [3]		Temporary offset, O
pt	BITSTRING [5]		Penalty time, O
poi	BITSTRING [1]		Power offset indicator, M
po	BITSTRING [2]		Power offset, O
si2ti	BITSTRING [1]		SI 2ter indicator, M
ecsc	BITSTRING [1]		Early classmark setting control, M
si9i	BITSTRING [1]		SI9 indicator, M
where	BITSTRING [3]		scheduling si9 on BCCH, O
gprsi	BITSTRING [1]		GPRS supported M
racolour	BITSTRING [3]		routing area colour code O
si13p	BITSTRING [1]		SI13 position O
spb	BITSTRING [1..7]		spare bits, O
spd	OCTETSTRING [1..4]		'2B..2B'O padding, O

Detailed Comments : The info element has a fixed length of 4 octets.
 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position.
 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).

Structured Type Definition			
Type Name : SI4RO Encoding Variation : Comments : SI4 Rest Octets GSM 04.08, 10.5.2.35			
Element Name	Type Definition	Field Encoding	Comments
pi	BITSTRING [1]		Cell reselect parameter indicator M
cbq	BITSTRING [1]		Cell bar qualify O
cro	BITSTRING [6]		Cell reselect offset O
to	BITSTRING [3]		Temporary offset O
pt	BITSTRING [5]		Penalty time O
poi	BITSTRING [1]		Power offset indicator M
po	BITSTRING [2]		Power offset O
gprsi	BITSTRING [1]		GPRS supported M
racolour	BITSTRING [3]		routing area colour code O
si13p	BITSTRING[1]		SI13 position O
spb	BITSTRING [1..7]		spare bits, O
spd	OCTETSTRING [1..9]		'2B..2B'O padding, O
Detailed Comments : The info element has a maximum length of 10 octets. 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position. 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).			

Structured Type Definition			
Type Name : SI6RO Encoding Variation : Comments : GSM 04.08, 10.5.2.35a			
Element Name	Type Definition	Field Encoding	Comments
pchnchi	B_1		PCH/NCH info indicator M
pchrestr	B_1		pch restructuring O
nln_saccch	B_2		notification list number (SACCH), O
cpi	B_1		call priority indicator
call_priority	B_3		optional
nlns	B_1		optional
vbs_vgcsi	B_1		VBS/VGCS indicator
inband_notification	B_1		notification on FACCH M
inband_paging	B_1		paging thro notification/facch M
spb	BITSTRING [1..7]		spare bits, optional
spd	OCTETSTRING [1..6]		'2B..2B'O padding, optional
Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position. 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).			

Structured Type Definition

Type Name : SI10RO

Encoding Variation :

Comments : SI10 Rest Octets
GSM 04.08, 10.5.2.44

Element Name	Type Definition	Field Encoding	Comments
bai	B_1		BA indicator M
sni	B_1		implicit spare or neighbour information indication M
ff	B_5		first frequency O
bsic	B_6		bsic O
cpi	B_1		cell parameters indicator O
cbi	B_1		cell bared / further cell info indicator O
crhi	B_1		cell reselect hysteresis indicator O
crh	B_3		cell reselect hysteresis O
mtmc	B_5		ms txpwr max cch O
ram	B_6		rxlev access min O
cro	B_6		cell reselect offset O
to	B_3		temporary offset O
pt	B_5		penalty time O
ifi1	B_1		info field indicator 1 O
if1	INF		information fird 1 O
ifi2	B_1		info field indicator 2 O
if2	INF		information fird 2 O
ifi3	B_1		info field indicator 3 O
if3	INF		information fird 3 O
ifi4	B_1		info field indicator 4 O
if4	INF		information fird 4 O
ifi5	B_1		info field indicator 5 O
if5	INF		information fird 5 O
ifi6	B_1		info field indicator 6 O
if6	INF		information fird 6 O
ifi7	B_1		info field indicator 7 O
if7	INF		information fird 7 O
ifi8	B_1		info field indicator 8 O
if8	INF		information fird 8 O
spb	BITSTRING [1..7]		spare bits, O
spd	OCTETSTRING [1..19]		'2B..2B'O padding, O

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

Structured Type Definition			
Type Name : SIGNAL Encoding Variation : Comments : Signal (CC information element) GSM 04.08, 10.5.4.23			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'00110100'B
sigv	BITSTRING [8]		signal value
Detailed Comments :			

Structured Type Definition			
Type Name : SSVI Encoding Variation : Comments : SS version indicator GSM 04.08, 10.5.4.24			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01111111'B
iel	LENGTH		'00'O for non hopping
ssv	OCTETSTRING [1]		ss version information
Detailed Comments :			

Structured Type Definition			
Type Name : STA Encoding Variation : Comments : State attributes GSM 04.69, 9.4.6			
Element Name	Type Definition	Field Encoding	Comments
type	B_4		i.e. type O BITSTRING[4]
da	B_1		DA M BITSTRING[1]
ua	B_1		UA M BITSTRING[1]
comm	B_1		COMM M BITSTRING[1]
oi	B_1		OI M BITSTRING[1]
Detailed Comments :			

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

Structured Type Definition			
Type Name : SUBAD Encoding Variation : Comments : Subaddress GSM 04.08, 10.5.4.8, 10.5.4.10, 10.5.4.14			
Element Name	Type Definition	Field Encoding	Comments
extb tos oei sp3b si	EXTB BITSTRING [3] BITSTRING [1] SP3B OCTETSTRING [2..23]		extension bit Type of subaddress, '0, 2' odd/even indicator 3 spare bits subaddress information
Detailed Comments :			

Structured Type Definition			
Type Name : SYNCHI Encoding Variation : Comments : Synchronization indication GSM 04.08, 10.5.2.39			
Element Name	Type Definition	Field Encoding	Comments
iei nci rot si	IEI_4 B_1 B_1 B_2		'1101'B normal cell indication report observed time difference synchronisation indication
Detailed Comments :			

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

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

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

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

Structured Type Definition			
Type Name : TON_NPI Encoding Variation : Comments : Type of number and numbering plan GSM 04.08, 10.5.4.7, 10.5.4.9, 10.5.4.13, GSM 03.40, 9.1.2.5			
Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		extension bit
ton	BITSTRING [3]		Type of number, '0 – 6'
npi	BITSTRING [4]		Numbering plan id., '0, 1, 3, 4, 8, 9, 10'
Detailed Comments :			

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

Structured Type Definition			
Type Name : UU Encoding Variation : Comments : User-user GSM 04.08, 10.5.4.25			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01111110'B
iel	LENGTH		
uupd	BITSTRING [8]		user-user protocol discriminator
uui	OCTETSTRING [1..128]		user user information
Detailed Comments : In SETUP, ALERTING, CONNECT, DISCONNECT, RELEASE and RELEASE COMPLETE messages the uui length is of 0 – 32 bytes. In USER INFORMATION messages the uui length is of 1 – 128.			

Structured Type Definition			
Type Name : VGCSTMI Encoding Variation : Comments : VGCS target mode indication GSM 04.08, 10.5.2.42c			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01'O
tmod	B_2		target mode
gckn	B_4		group ciphering key number
spr	SP2B		spare bits
Detailed Comments :			

ASN.1 Type Definition	
Type Name	: Component
Encoding Variation	:
Comments	: ASN1_Encoding: BER

Continued on next page

ASN.1 Type Definition

Type Definition

```

CHOICE {
  invoke    [1] IMPLICIT  Invoke_TCAP,
  rResult   [2] IMPLICIT  RResult_TCAP,
  rError    [3] IMPLICIT  RError_TCAP,
  reject    [4] IMPLICIT  RejectComponent
}
Invoke_TCAP ::= SEQUENCE
{
  invokeID          InvokeIDType,
  linkedID          [0] IMPLICIT InvokeIDType OPTIONAL,
  operation          Operation,
  arg_registerSS     InvArg_RegisterSS OPTIONAL,
  arg_eraseSS        SS_ForBS_Code OPTIONAL,
  arg_activateSS     SS_ForBS_Code OPTIONAL,
  arg_deactivateSS   SS_ForBS_Code OPTIONAL,
  arg_interrogateSS  SS_ForBS_Code OPTIONAL,
  arg_notifySS       InvArg_NotifySS OPTIONAL,
  arg_registerPassword SS_Code OPTIONAL,
  arg_getPassword    InvArg_GetPassword OPTIONAL,
  arg_processUnstructuredSSData SS_UserData OPTIONAL,
  arg_processUnstructuredSSRequest USSD_Arg OPTIONAL,
  arg_unstructuredSSRequest  USSD_Arg OPTIONAL,
  arg_unstructuredSSNotify   USSD_Arg OPTIONAL,
  arg_forwardCUGInfo         InvArg_ForwardCUGInfo OPTIONAL,
  arg_forwardChargeAdvice    InvArg_ForwardChargeAdvice OPTIONAL
}
RResult_TCAP ::= SEQUENCE
{
  invokeID          InvokeIDType,
  valueAndResult    SEQUENCE {
    operation          Operation,
    registerSS_rr      SS_Info OPTIONAL,
    eraseSS_rr         SS_Info OPTIONAL,
    activateSS_rr      SS_Info OPTIONAL,
    deactivateSS_rr    SS_Info OPTIONAL,
    interrogateSS_rr   RRArg_InterrogateSS OPTIONAL,
    registerPassword_rr Password OPTIONAL,
    getPassword_rr     Password OPTIONAL,
    processUnstructuredSSData_rr SS_UserData OPTIONAL,
    processUnstructuredSSRequest_rr USSD_Res OPTIONAL,
    unstructuredSSRequest_rr  USSD_Res OPTIONAL
  } OPTIONAL
}
RError_TCAP ::= SEQUENCE
{
  invokeID InvokeIDType,
  error_value ErrorLocalValues (
    absentSubscriber
    | bearerServiceNotProvisioned
    | dataMissing
    | facilityNotSupported
    | illegalEquipment
    | illegalSS_Operation
    | illegalSubscriber
    | longTermDenial
    | maxNumberOfMPTY_ParticipantsExceeded
    | negativePW_Check
    | numberOfPW_AttemptsViolation
    | resourcesNotAvailable
    | shortTermDenial
    | ss_NotAvailable
    | teleserviceNotProvisioned
    | unexpectedDataValue
    | unknownAlphabet
    | ussd_Busy
  ) OPTIONAL,
  callBarredErr          ErrorLocalValues ( callBarred ) OPTIONAL,
  par_callBarredErr      CallBarringCause OPTIONAL,
  ss_IncompatibilityErr  ErrorLocalValues ( ss_Incompatibility ) OPTIONAL,
  par_ss_IncompatibilityErr SS_IncompatibilityCause OPTIONAL,
  systemFailureErr      ErrorLocalValues ( systemFailure ) OPTIONAL,
  par_systemFailureErr  NetworkResource OPTIONAL,
  ss_ErrorStatusErr     ErrorLocalValues ( ss_ErrorStatus ) OPTIONAL,
  par_ErrorStatusErr    SS_Status OPTIONAL,

```

ASN.1 Type Definition
Detailed Comments :

ASN.1 Type Definition
Type Name : Components Encoding Variation : Comments : GSM 04.80, 3.6
Type Definition
SET OF Component
Detailed Comments : ASN.1 transfer encoding rules: BER is not wholly used for the type Components. The contents of Components, without the octets encoding the tag and the length of SET OF, is carried as the Components value.

ASN.1 Type Definition
Type Name : InvArg_ForwardChargeAdvice Encoding Variation : Comments : GSM 04.80, 4.2
Type Definition
<pre> SEQUENCE { ss_Code [0] SS_Code, chargingInformation [1] SEQUENCE{ e1 [1] INTEGER (0..max10TimesUnitsPerTime) OPTIONAL, e2 [2] INTEGER (0..max10TimesTimeInterval) OPTIONAL, e3 [3] INTEGER (0..max100TimesScalingFactor) OPTIONAL, e4 [4] INTEGER (0..max10TimesIncrement) OPTIONAL, e5 [5] INTEGER (0..max10TimesIncrementPerDataInterval) OPTIONAL, e6 [6] INTEGER (0..maxNumberOfSegmentsPerDataInterval) OPTIONAL, e7 [7] INTEGER (0..max10TimesInitialTime) OPTIONAL } } </pre>
Detailed Comments : Timer T_aoc = 1 – 40 s

ASN.1 Type Definition
Type Name : InvArg_ForwardCUGInfo Encoding Variation : Comments : GSM 04.80, 4.2
Type Definition
<pre> SEQUENCE{ cug_Index [0] IMPLICIT CUG_Index OPTIONAL, suppressPrefCUG [1] IMPLICIT NULL OPTIONAL, suppressOA [2] IMPLICIT NULL OPTIONAL } </pre>
Detailed Comments :

ASN.1 Type Definition	
Type Name	: InvArg_GetPassword
Encoding Variation	:
Comments	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> ENUMERATED { enterPW (0), enterNewPW (1), enterNewPW_Again (2) } </pre>	
Detailed Comments	: Timer m

ASN.1 Type Definition	
Type Name	: InvArg_NotifySS
Encoding Variation	:
Comments	: GSM 04.80, 4.2
Type Definition	
<pre> SEQUENCE { ss_Code [1] IMPLICIT SS_Code OPTIONAL, ss_Status [4] IMPLICIT SS_Status OPTIONAL, ss_Notification [5] IMPLICIT OCTET STRING (SIZE (1)) OPTIONAL, callsWaiting_Indicator [14] IMPLICIT NULL OPTIONAL, callOnHold_Indicator [15] IMPLICIT ENUMERATED { callRetrieved (0), callOnHold (1) } OPTIONAL, mpty_Indicator [16] IMPLICIT NULL OPTIONAL, cug_Index [17] IMPLICIT CUG_Index OPTIONAL, clirSuppressionRejected [18] IMPLICIT NULL OPTIONAL, ect_Indicator [19] IMPLICIT ECT_Indicator OPTIONAL, nameIndicator [20] IMPLICIT NameIndicator OPTIONAL, ccbs_feature [21] IMPLICIT CCBS_Feature OPTIONAL, alertingPattern [22] IMPLICIT AlertingPattern OPTIONAL } </pre>	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InvArg_RegisterSS
Encoding Variation	:
Comments	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> SEQUENCE{ ss_Code SS_Code, basicService BasicServiceCode OPTIONAL, forwardedToNumber [4] IMPLICIT AddressString OPTIONAL, forwardedToSubaddress [6] IMPLICIT ISDN_SubaddressString OPTIONAL, noReplyConditionTime [5] IMPLICIT NoReplyConditionTime OPTIONAL, defaultPriority [7] IMPLICIT DefaultPriority OPTIONAL } </pre>	
Detailed Comments	: Timer m

ASN.1 Type Definition	
Type Name	: RRArg_InterrogateSS
Encoding Variation	:
Comments	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> CHOICE { ss_Status [0] IMPLICIT SS_Status, basicServiceGroupList [2] IMPLICIT BasicServiceGroupList, forwardingFeatureList [3] IMPLICIT ForwardingFeatureList, genericServiceInfo [4] IMPLICIT SEQUENCE { ss_Status SS_Status, cli_RestrictionInfo CliRestrictionOption OPTIONAL, maxEntitledPr [0] IMPLICIT INTEGER (0 .. 15) OPTIONAL, defaultPr [1] IMPLICIT INTEGER (0..15) OPTIONAL, ccbs_Feature [2] IMPLICIT CCBS_Feature OPTIONAL } } </pre>	
Detailed Comments	: Timer m

ASN.1 Type Definition	
Type Name	: RejectComponent
Encoding Variation	:
Comments	: ITU-T Q.767
Type Definition	
<pre> SEQUENCE { invokedID CHOICE { derivable InvokeIDType, notDerivable NULL }, problem CHOICE { generalProblem [0] IMPLICIT GeneralProblem, invokeProblem [1] IMPLICIT InvokeProblem, returnResultProblem [2] IMPLICIT ReturnResultProblem, returnErrorProblem [3] IMPLICIT ReturnErrorProblem } } </pre>	
Detailed Comments	: Reject Component is not specific to any particular operation. The invokedID may be used to identify a specific operation.

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

ASN.1 Type Definition	
Type Name	: AlertingPattern
Encoding Variation	:
Comments	: GSM 04 80
Type Definition	
OCTET STRING (SIZE(1))	
Detailed Comments :	

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

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

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

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

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

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

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

ASN.1 Type Definition

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

Type Definition

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

```

Detailed Comments :

ASN.1 Type Definition

Type Name : CCBS_Feature
Encoding Variation :
Comments : GSM 04 80 annex A

Type Definition

```
SEQUENCE {
ccbs_index [0] IMPLICIT INTEGER (1..5) OPTIONAL,
b_subscriberNumber [1] IMPLICIT OCTET STRING (SIZE (1..20)) (SIZE (1..9)) OPTIONAL,
b_subscriberSubaddress [2] IMPLICIT OCTET STRING (SIZE (1..21)) OPTIONAL,
basicsericeGroup [3] BasicServiceCode OPTIONAL
}
```

Detailed Comments :

ASN.1 Type Definition

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

Type Definition

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

Detailed Comments :

ASN.1 Type Definition

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

Type Definition

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

Detailed Comments :

ASN.1 Type Definition	
Type Name	: CUG_FeatureList
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE SIZE (1.. maxNumOfBasicServiceGroups) OF CUG_Feature	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: CUG_Index
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
INTEGER (0..32767)	
Detailed Comments : The internal structure is defined in ETS 300 138.	

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

ASN.1 Type Definition	
Type Name	: CUG_Info
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { cug_SubscriptionList CUG_SubscriptionList, cug_FeatureList CUG_FeatureList OPTIONAL }	
Detailed Comments :	

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

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

ASN.1 Type Definition	
Type Name	: DefaultPriority
Encoding Variation	:
Comments	: GSM 04 80 , annex A
Type Definition	
INTEGER (0..15)	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: ECT_Indicator
Encoding Variation	:
Comments	: GSM 04 80, 4.4.2
Type Definition	
SEQUENCE { ect_CallState [0] ENUMERATED { alerting(0), active (1)}, rdn [1] RDN OPTIONAL }	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: ErrorLocalValues
Encoding Variation	:
Comments	: GSM 04.80, 4.5
Type Definition	
<pre> INTEGER { unknownSubscriber (1), illegalSubscriber (9), bearerServiceNotProvisioned (10), teleserviceNotProvisioned (11), illegalEquipment (12), callBarred (13), illegalSS_Operation (16), ss_ErrorStatus (17), ss_NotAvailable (18), ss_SubscriptionViolation (19), ss_Incompatibility (20), facilityNotSupported (21), absentSubscriber (27), systemFailure (34), dataMissing (35), unexpectedDataValue (36), pw_RegistrationFailure (37), negativePW_Check (38), numberOfPW_AttemptsViolation (43), unknownAlphabet (71), ussd_Busy (72), maxNumberOfMPTY_ParticipantsExceeded (126), resourcesNotAvailable (127), shortTermDenial (29), longTermDenial (30) } </pre>	
Detailed Comments : Elements of INTEGER are global for the ATS.	

ASN.1 Type Definition	
Type Name	: ForwardingFeature
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
<pre> SEQUENCE { basicService BasicServiceCode OPTIONAL, ss_Status [4] IMPLICIT SS_Status OPTIONAL, forwardedToNumber [5] IMPLICIT ISDN_AddressString OPTIONAL, forwardedToSubaddress [8] IMPLICIT ISDN_SubaddressString OPTIONAL, forwardingOptions [6] IMPLICIT ForwardingOptions OPTIONAL, noReplyConditionTime [7] IMPLICIT NoReplyConditionTime OPTIONAL } </pre>	
Detailed Comments :	

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

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

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

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

ASN.1 Type Definition	
Type Name	: InterCUG_Restrictions
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
Detailed Comments	: bits: 876543: 000000 (unused) bits 21: 00 CUG only facilities 01 CUG with outgoing access 10 CUG with incoming access 11 CUG with both outgoing and incoming access

ASN.1 Type Definition	
Type Name	: IntraCUG_Options
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
ENUMERATED { noCUG_Restrictions (0), cugIC_CallBarred (1), cugOG_CallBarred (2) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InvokeIDType
Encoding Variation	:
Comments	: ITU-T, Q.773
Type Definition	
INTEGER (−128 .. 127)	
Detailed Comments	: Values: Sending Components: If it is an invoke component then use Test Case Variable (with default) to set value. If another invoke component is sent the TCV should be incremented beforehand. If it is a return result, error or reject component in response to a received invoke component then use TCV also, making sure the value is set to the value of the received component beforehand. Receiving Components: If it is an invoke comp then use '?'. If it is a return result, error or reject component in response to a sent invoke component then use TCV value (as used in sent invoke component).

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

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

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

ASN.1 Type Definition	
Type Name	: Name
Encoding Variation	:
Comments	: GSM 04 80 4.4.2
Type Definition	
CHOICE { namePresentationAllowed [0] NameSet, presentationRestricted [1] NULL, nameUnavailable [2] NULL, namePresentationRestricted [3] NameSet }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: NameSet
Encoding Variation	:
Comments	: GSM 04 80 4.4.2
Type Definition	
SEQUENCE { dataCodingScheme [0] USSD_DataCodingScheme, lengthInCharacters [1] INTEGER, nameString [2] USSD_String }	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: NameIndicator
Encoding Variation	:
Comments	: GSM 04 80 4.4.2
Type Definition	
SEQUENCE { callingName [0] Name OPTIONAL }	
Detailed Comments :	

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

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

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

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

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

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

ASN.1 Type Definition	
Type Name	: RDN
Encoding Variation	:
Comments	: GSM 04 80 4.4.2
Type Definition	
<pre>CHOICE { presentationAllowedAddress [0] RemotePartyNumber, presentationRestricted [1] NULL, numberNotAvailableDueToInterworking [2] NULL, presentationRestrictedAddress [3] RemotePartyNumber }</pre>	
Detailed Comments :	

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

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

ASN.1 Type Definition	
Type Name	: RemotePartyNumber
Encoding Variation	:
Comments	: GSM 04 80 4.4.2
Type Definition	
<pre>SEQUENCE { partyNumber [0] ISDN_AddressString, partyNumberSubaddress [1] ISDN_SubaddressString }</pre>	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: SS_Code
Encoding Variation	:
Comments	: GSM 09.02, 14.7.5
Type Definition	
OCTET STRING (SIZE (1))	
Detailed Comments : group (bits 8765), and specific service (bits 4321)	

ASN.1 Type Definition	
Type Name	: SS_Data
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ss_Code SS_Code OPTIONAL, ss_Status [4] IMPLICIT SS_Status OPTIONAL, ss_SubscriptionOption SS_SubscriptionOption OPTIONAL, basicServiceGroupList BasicServiceGroupList OPTIONAL, defaultPriority DefaultPriority OPTIONAL, ccbs_Feature [5] IMPLICIT CCBS_Feature }	
Detailed Comments :	

ASN.1 Type Definition	
Type Name	: SS_ForBS_Code
Encoding Variation	:
Comments	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ss_Code SS_Code, basicService BasicServiceCode OPTIONAL }	
Detailed Comments :	

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

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

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

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

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

ASN.1 Type Definition	
Type Name	: TCAP_Problems
Encoding Variation	:
Comments	: ITU-T Q.767
Type Definition	
<pre> INTEGER { unrecognizedComponent (0), -- GeneralProblem unrecognizedInvokeID (0), -- ReturnResultProblem, ReturnErrorProblem duplicateInvokeID (0), -- InvokeProblem mistypedComponent (1), -- GeneralProblem returnErrorUnexpected (1), -- ReturnErrorProblem returnResultUnexpected (1), -- ReturnResultProblem unrecognizedOperation (1), -- InvokeProblem badlyStructuredComponent (2), -- GeneralProblem unrecognizedError (2), -- ReturnErrorProblem mistypedArgument (2), -- InvokeProblem, originally called mistypedParameter in TCAP mistypedResult (2), -- ReturnResultProblem resourceLimitation (3), -- InvokeProblem unexpectedError (3), -- ReturnErrorProblem mistypedParameter (4), -- ReturnErrorProblem initiatingRelease (4), -- InvokeProblem unrecognizedLinkedID (5), -- InvokeProblem linkedResponseUnexpected (6), -- InvokeProblem unexpectedLinkedOperation (7) -- InvokeProblem } </pre>	
Detailed Comments	: Errors of the same integer value are distinguished by their different parent types (General, Invoke, ReturnResult, ReturnError).

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

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

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

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

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

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

Test Suite Operation Definition	
Operation Name	: OO_ActivateImplicitUUS1 (string : IA5String)
Result Type	: BOOLEAN
Comments	:
Description	
This operation first requests (e.g. from the control console of the test system) the test operator to activate implicit UUS1 with a precise string given as parameter 'string'. This procedure is indicated in the PIXIT statement. When Implicit UUS1 is activated, the operation returns TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_ActivateUTDI (string : IA5String)
Result Type	: BOOLEAN
Comments	:
Description	
This operation first requests (e.g. from the control console of the test system) the test operator to activateUTDI with a precise string given as parameter 'string'. This procedure is indicated in the PIXIT statement. When UTDI is activated, the operation returns TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_CheckUUSDisplay (strg_uus: IA5String)
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to check if the mobile station under test displays the UUS String 'strg_Uss' that has been sent by SS. This procedure is indicated in the PIXIT statement. Then the operation returns: TRUE: MS displays the correct User–User String. FALSE: MS does not display the correct User–User String.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_CheckUssdDisplay (strg_uusd_code, strg_uusd_text: IA5String)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation requests (e.g. from the control console of the test system) the test operator to check if the mobile station under test displays the Ussd information that has been sent by SS. The USSD information is defined by a code or a text. This procedure is indicated in the PIXIT statement.</p> <p>Then the operation returns:</p> <p>TRUE: MS displays the correct Ussd String.</p> <p>FALSE: MS does not display the correct Ussd String.</p>	
Detailed Comments :	

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

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

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

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

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

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

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

Test Suite Operation Definition	
Operation Name	: OC_FnInc(fn : FN; inc : INTEGER)
Result Type	: FN
Comments	:
Description	
<p>The function of OC_FnInc operation to increase frame number with 'inc'. The frame number to be incremented is the input parameter 'fn' in FN type and the increment 'inc' is in INTEGER type, the incremented frame number is returned in FN type.</p> <p>OC_FnInc(fn, inc)</p> <pre> FN fn; INTEGER inc; { int frmin; FN frmout; frmin = 51 * ((fn.t3 – fn.t2) MOD 26) + fn.t3 + 1326 * fn.t1_ ; frmout.t1_ = ((frmin + inc) DIV 1326) MOD 32; frmout.t2 = (frmin + inc) MOD 26; frmout.t3 = (frmin + inc) MOD 51; return (frmout); }</pre>	
Detailed Comments :	

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

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

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

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

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

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

Test Suite Operation Definition

Operation Name : OC_MsrReptChk(msrres: MSRR; index : INTEGER)

Result Type : BOOLEAN

Comments : parameter index is used for selecting different match pattern

Continued on next page

Test Suite Operation Definition

Description

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

1. when the 'index' = 1:
 - if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
 { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
 { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
 }
 equals to
 set { {'00000'B, '001011'B}, {'01111'B, '001001'B},
 {'10101'B, '001011'B}, {'10110'B, '001101'B},
 {'11100'B, '001111'B}, {'11111'B, '001001'B}
 }
 then the operation returns TRUE otherwise FALSE.
2. when the 'index' = 2:
 - if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
 { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
 { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
 }
 equals to
 set { {'00000'B, '001011'B}, {'00100'B, '001001'B},
 {'00110'B, '001011'B}, {'00101'B, '001101'B},
 {'00010'B, '001111'B}, {'00111'B, '001001'B}
 }
 then the operation returns TRUE otherwise FALSE.
3. when the 'index' = 3:
 - if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
 { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
 { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
 }
 equals to
 set { {'00001'B, '001011'B}, {'00101'B, '001001'B},
 {'00111'B, '001011'B}, {'00110'B, '001101'B},
 {'00011'B, '001111'B}, {'01000'B, '001001'B}
 }
 then the operation returns TRUE otherwise FALSE.
4. when the 'index' = 4 :
 - if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
 { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
 }
 equals to
 set { {'00000'B, '001011'B}, {'00010'B, '001111'B},
 {'00001'B, '001111'B}, {'00011'B, '001001'B}
 }
 then the operation returns TRUE otherwise FALSE.
5. when the 'index' = 5 :
 - if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
 { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
 }
 equals to
 set { {'00000'B, '001011'B}, {'00010'B, '001111'B},
 {'00001'B, '001111'B}, {'00100'B, '001001'B}
 }
 then the operation returns TRUE otherwise FALSE.
6. when the 'index' = 6:
 - if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
 { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
 { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
 }
 equals to
 set { {'00000'B, '001011'B}, {'00011'B, '001001'B},
 {'00100'B, '001011'B}, {'00101'B, '001101'B},
 {'00110'B, '001111'B}, {'00111'B, '001001'B}
 }
 then the operation returns TRUE otherwise FALSE.

Test Suite Operation Definition
Detailed Comments :

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

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

Test Suite Operation Definition	
Operation Name	: OC_OtherDigi(bcddigits : HEXSTRING)
Result Type	: OCTETSTRING
Comments	: The input parameter 'bcddigits' is really BCD string (subset of HEXSTRING), the result is an even BCD digits except that the next to last may either be 'F'H or a BCD digit.
Description	
<p>The function of the OC_OtherDigi is as the following:</p> <ol style="list-style-type: none"> 1. If the number of the 'bcddigits' is odd, the operation removes the most significant digit, and then reverses the order of each pair of digits; 2. If the number of the 'bcddigits' is even, first the operation suffixes the 'bcddigits' with 'F'H, then removes the most significant digit, and then reverses the order of each pair of digits. <p>for example:</p> <p>OC_OtherDigi('12345') = '3254', OC_OtherDigi('12345678') ='325476F8'.</p>	
Detailed Comments :	

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

Test Suite Operation Definition	
Operation Name	: OC_SaveAndRetrv(val : RQR; mode, idx, ex: INTEGER)
Result Type	: RQR
Comments	: This operation is used for storing and retrieving the random reference.
Description	
<p>The function of this test suite operation is (in prose):</p> <ul style="list-style-type: none"> – it saves the value val into internal buffer buf[idx] when the mode = SAVE and ex = 0. Maximum 9 values can be stored. The idx is ranged between 1–9. – it returns the value stored in the internal buffer buf[idx] when the mode = RETRV and ex = 0. – it returns a value which is different from any value stored in the buf and also different from any values which have been returned by the consecutive invocation of this operation with ex <> 0, if ex <> 0. The idx is ranged between 10–13. <p>The function of this operation is defined as an pseudo C code:</p> <pre> #define SAVE 0; #define RETRV 1; OC_SaveAndRetrv(val, mode, idx, ex) RQR val; INTEGER mode, idx, ex; { int i, j; static RQR buf[14]; if ((mode == SAVE) AND (ex == 0)) { buf[idx] = val; buf[10].ra = '00000000'B; buf[10].fn = '00'O; buf[11].ra = '00000000'B; buf[11].fn = '00'O; buf[12].ra = '00000000'B; buf[12].fn = '00'O; buf[13].ra = '00000000'B; buf[13].fn = '00'O; return (buf[10]); } if ((mode == RETRV) AND (ex == 0)) return (buf[idx]); if (ex != 0) { buf[0].ra = buf[1].ra + '00000001'B; buf[0].fn = buf[1].fn; for (j=1, j < 13, j++) { for (i=1, i < 14, i++) if(buf[0] == buf[i]) { buf[0].ra = buf[i].ra + '00000001'B; break; } if (i == 14) { buf[idx].ra = buf[0].ra; return (buf[0]); } } buf[idx].ra = buf[j].ra+'00000001'B; return (buf[idx]); } } </pre>	
Detailed Comments	<p>0. The pseudo C code gives one of the possible implementations for the OC description in prose.</p> <p>1. '00'O should be understood as equivalence of Fn_01, a TTCN structured type constraint.</p>

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Test Suite Operation Definition

Detailed Comments : ...

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

Test Suite Operation Definition

Operation Name : OC_StartTime(frmn : FN; t, i : INTEGER)

Result Type : STRT

Comments :

Description

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

(* frmn is the current frame number,
t is the "delay" in applying the new frequencies,
i is the contents of the starting time IE. *)

OC_StartTime(frmn, t, i)

INTEGER t, i;

FN frmn;

{

int tmp;

STRT strt;

tmp = 51 * ((frmn.t3 – frmn.t2) MOD 26) + frmn.t3 + 1326 * frmn.t1_;

tmp = (tmp + t) MOD 42432;

strt.fn.t1_ = (tmp DIV 1326) MOD 32;

strt.fn.t2 = tmp MOD 26;

strt.fn.t3 = tmp MOD 51;

strt.iei = OMIT;

if (i == 1) strt.iei := '01111100'B /* if i=1 the information element identifier shall be included */

return(strt);

}

Detailed Comments :

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

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Test Suite Operation Definition

Description

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

for example:

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

pseudo C code definition for the operation as following :

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

Test Suite Operation Definition
Detailed Comments :

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

Continued on next page

Test Suite Operation Definition

Description

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

for example:

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

pseudo C code definition for the operation as following :

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

Continued from previous page

Test Suite Operation Definition
Detailed Comments :

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

Continued on next page

Test Suite Operation Definition

Description

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

for example:

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

pseudo C code definition for the operation as following :

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

Test Suite Operation Definition
Detailed Comments :

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

Continued on next page

Test Suite Operation Definition

Description

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

for example:

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

pseudo C code definition for the operation as following :

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

Continued from previous page

Test Suite Operation Definition
Detailed Comments :

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

Continued on next page

Test Suite Operation Definition

Description

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

for example:

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

pseudo C code definition for the operation as following :

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


Test Suite Operation Definition
Detailed Comments :

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

Continued on next page

Test Suite Operation Definition

Description

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

for example:

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

pseudo C code definition for the operation as following :

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

Test Suite Operation Definition
Detailed Comments :

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

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

Continued on next page

Test Suite Operation Definition

Description

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

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

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

Naming convention for logical channel constants:

C_<channel type>[<rate>][<subchannel>][_<cell>][_<instance>]
 e.g.: C_FACCH H 0 _C _3 => C_FACCHH0_C_3

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

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

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

cell: A, ..., H

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

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

Examples:

Comments:

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

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

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

Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OM_CheckAccessBurst_Asci (bsicUic :BOOLEAN ; asp : DL_RacInUpAcc)
Result Type	: BOOLEAN
Comments	:
Description	
Check that the UPLINK ACCESS message access burst is coded with BSIC (if parameter bsicUic=TRUE) or UIC (if parameter bsicUic=FALSE)	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_ChangeRFOfCell(cellid1 : CellID; bspwr1 : INTEGER)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This TSO is to change the RF level of the cell 'cellid1' to the RF level 'bspwr1', then the TSO returns TRUE.</p> <p>The major purpose of the TSO is to force the MS to reselect a new cell according to the GSM 05.08, section 6.6.2. The following example shows the use of the TSO.</p> <p>The default cell selection parameters in the ATS are set as:</p> <p>Cell reselect hysteresis: 12db</p> <p>MX TXPWR MX CCH: minimu level (0)</p> <p>ACS: no additional cell selection parameter (0)</p> <p>RXLEV ACCESS MIN: minimum (0).</p> <p>Therefore the path loss criterion parameter C1 equals to the reselection criterion parameter C2. In the whole ATS the C1 and C2 keeps greater than 10 (e.g. TC_26_7_4_2_3) for a cell not suitable. The MS received level average from a not suitable cell keeps also greater than 10 (−100 dBm) corresponding to the reference sensitivity level of DCS 1800 MS.</p> <p>For GSM arfcn = 20, F = 941 MHz , the fields strengths (E) on tester integral antenna: $E \text{ (dB microV/m)} \geq (-110 + 10) \text{ (dBm)} + 20\log(941) + 77.2 = 36.7$, For DCS arfcn = 590, F = (−110 + 10) (dBm) + 20log(1820.8) + 77.2 = 42.4 (the formula see GSM 05.05, section 5 and GSM 05.08, section 8.1.4).</p> <p>In order to keep C1, C2 greater 10, a reasonable field strength making a cell not suitable is set to C_E_otsuitable = 45 in comparison with the default field strength C_E_default = 63. Considering that the cell reselect hysteresis is set to 12 db, the field strength of a cell being reselected need to be set to greater than 57. In the ATS the default value C_E_default (63) and C_E_otsuitable (45) are used for this TSO to force MS making cell reselection.</p> <p>C1 needs to be less than zero to force the MS reselect a better cell. For GSM, $E \leq 26.7$, for DCS, $E \leq 32.4$. The value C_E_otsuitable_sameLAI = 24 applies to the TSO to force the MS making cell reselection.</p>	
Detailed Comments :	

Test Suite Operation Definition

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

Result Type : BOOLEAN

Comments :

Description

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

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

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

This criterion is defined as:

$$C1 = (A - \max(B, 0))$$

when A – Received Level Average – (RXLEV_ACCESS_MIN)

B – MS_TXPWR_MAX_CCH – P {non DCS 1800}

– MS_TXPWR_MAX_CCH + POWEROFFSET – P {DCS 1800}

RXLEV_ACCESS_MIN – Minimum received level at the MS required for access to the system.

MS_TXPWR_MAX_CCH – Maximum TX power level an MS may use when accessing the system

until otherwise commanded.

POWER OFFSET – The power offset to be used in conjunction with the MS TXPWR MAX CCH parameter by the class 3 DCS 1 800 MS.

P – Maximum RF output power of the MS.

All values are expressed in dBm.

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

Detailed Comments :

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

Continued on next page

Test Suite Operation Definition
Description
<p>The operation sets the configuration of a basic physical channel according to the input parameters and map logic channel combination onto it:</p> <ul style="list-style-type: none"> – bspwr: base station power level in dBu; – mspwr: mobile station power level in "power control level"; – acttype: type of activation: <ul style="list-style-type: none"> – '000'B activation for intra-cell channel change ----- immediate assignment; – '001'B activation for intra-cell channel change ----- assignment; – '010'B activation for inter-cell channel change ----- asynchronous handover; – '011'B activation for inter-cell channel change ----- synchronous handover; – '100'B activation for additional assignment; <p>NOTE: the types defined above are all the same, no real difference</p> – '101'B activation for receiving only; – chmod: channel mode; – ta: timing advance ----- receive timing ta bit periods in advance of the normal receive timing if the channel is a dedicated channel ; – slot: time slot; – tsc: Training sequence code for normal bursts; – rf: ARFCN or hopping parameters; – chcmnb: logic channel combination mapping to the physical channel; – td: timing difference between the cell and conceptual timing reference ----- to make 2 cells with different timebase; – fn: initial frame number offset to the timing base counter ----- to make 2 cells with different frame numbers; – babr number of blocks reserved for access grant – cch-con CCCH/SDCCHs configuration – bpm multiframe period for transmission of PAGING REQUEST – pgfil: paging filling contents; – dtxu: mobile station discontinuous transmission: <ul style="list-style-type: none"> – '0'B mobile station discontinuous transmission is not applied; – '1'B mobile station discontinuous transmission is applied; – dtxd: base station discontinuous transmission: <ul style="list-style-type: none"> – '0'B base station discontinuous transmission is not applied; – '1'B base station discontinuous transmission is applied; – cell: cell identifier; – lgch1: logic channel identifier for the channel FCCH; – lgch2: logic channel identifier for the channel SCH; – lgch3: logic channel identifier for the channel BCCH; – lgch4: logic channel identifier for the channel PCH; – lgch5: logic channel identifier for the channel AGCH; – lgch6: logic channel identifier for the channel RACH; – lgch7: logic channel identifier for the channel FACCH or SDCCH; – lgch8: logic channel identifier for the channel SACCH; – lgch9: logic channel identifier for the channel CBCH; <p>For parameters lgch1 to lgch9 "dummy" in the actual parameter list means that the corresponding parameters are not used.</p> <p>In the test cases the logic channel identifiers lgch1 to lgch9 are used to refer the logic channels configured by the operation. There are only generic identifiers for SDCCH4 or SDCCH8 or FACCHH channel and SACCHC4 or SACCHC8 or SACCHH, identifiers for subchannels of SDCCH4 or SDCCH8 or FACCHH and SACCHC4 or SACCHC8 or SACCHH are linked to the generic identifiers by OM_Assoc operation and in turn refer to the sub logic channels configured by the operation.</p> <p>Channel re-use whithiin OM_ChConf:</p> <p>When an OM_ChConf calls is made then the following rules can be applied for deciding whether or not to re-use existing physical channel.</p> <p>Decode the 'chcmnb' (channel combination) parameter to determine the new channel type.</p> <p>If new channel = "C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4" (combined) or</p> <p>if new channel = "C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4" (combined + SMS) then re-use any existing control channel configuration with same CellID.</p> <p>If new channel = "C_FCCH_SCH_BCCH_CCCH" (non-combined) then use any combined, combined + SMS or non-combined control channel configuration with the same CellID.</p> <p>If new channel = "C_BCCH_CCCH_2", "C_BCCH_CCCH_3" or "C_BCCH_CCCH_4" (ccch-group) then re-use any existing ccch-group control channel configuration with the same CellID and the slot, or re-use any existing combined, combined + SMS with the same CellID.</p> <p>If new channel = "C_TCHF_ACCHF_1", "C_TCHF_ACCHF_2", "C_TCHH_ACCHH_1", "C_TCHH_ACCHH_2" (traffic) or "C_SDCCH8_SACCHC8_1", "C_SDCCH8_SACCHC8_2", "C_SDCCH8_SACCHC8_3" (dedicated) then re-use any existing traffic or dedicated channel with the same channel description.</p>

Test Suite Operation Definition
Detailed Comments :

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

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

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

Test Suite Operation Definition	
Operation Name	: OM_ComingFn(ch : LOGICCH)
Result Type	: FN
Comments	:
Description	
OM_ComingFn operation returns the frame number (FN modulo 42432) which is about 5 seconds later than current frame number and is able to carry L3 message on the channel 'ch'.	
Detailed Comments : The delay of about 5 seconds ensures that there is still enough time left for higher layer controller to prepare next TTCN send event after the OM_ComingFn returns. the exact delay value is up to the implementor.	

Test Suite Operation Definition	
Operation Name	: OM_Deactivate(ch1, ch2 : LOGICCH)
Result Type	: BOOLEAN
Comments	:
Description	
OM_Deactivate operation deactivates the logical channels 'ch1' and 'ch2', then returns TRUE.	
The ch1 can be a DCCH or a TCH, the ch2 is the associated SACCH.	
Deactivation of an active SDCCH channel can be done by stopping transmission; this means that for the bursts on the BCCH carriers, dummy bursts shall be transmitted, for other bursts nothing shall be transmitted. Alternatively the deactivation of a SDCCH can be done by transmitting bad blocks on the SACCH with the parity bits set incorrectly. This will lead to a radio link failure in the MS.	
Deactivation of a TCH channel can be done by stopping transmission if it is non-BCCH.	
Deactivation of a SACCH_T can be done by transmitting bad blocks on the SACCH_T with the parity bits set incorrectly. The wrong channel coding on the SACCH will lead to a radio link failure in the MS after several seconds depending on the system information messages..	
Detailed Comments : The TSO is called in TC_26_7_3_2, TC_26_7_4_3_2, TC_26_7_4_3_3, TC_26_7_4_3_4 on a SDCCH/4/SACCH/C4 channel in downlink, TC_26_2_4_1, TC_26_2_4_2, TC_26_8_2_1, TC_26_8_2_2, TC_26_8_2_3 on TCH/SACCH_T channel in both directions.	

Test Suite Operation Definition	
Operation Name	: OM_FHCHK(ch : LOGICCH; ca : CCHD; ma : MA; cd : CHD; t : INTEGER; fn : FN)
Result Type	: BOOLEAN
Comments	:
Description	
<p>After the SS has been configured to start / change frequency hopping at a particular start time, this TSO instructs the SS to check whether the MS correctly uses the hopping frequencies on and after the expected start time according to the frequency parameters.</p> <p>If 't' = 0 or $32024 \leq 't' \leq 42431$ the operation checks that the new frequencies starts "without delay". If $0 < 't' \leq 31000$ the operation checks that the new frequencies starts "on" the frame number of $(X + t) \bmod 42432$, where $x = 51 * ((fn.t3 - fn.t2) \bmod 26) + fn.t3 + 1326 * fn.t1$. If $31000 < 't' < 32024$, or '$t' < 0$ or '$t' > 42431$ then the test has been configured incorrectly and should be re-run with a permitted value for 't'.</p> <p>This check is performed at the uplink RF burst level by sampling for a period of 3 seconds from the start time and should therefore be called immediately after the SS has been configured to start / change hopping. The operation returns TRUE if the MS behaviour is correct, otherwise it returns FALSE. Note: before this TSO is called, a layer 3 message must be sent to the MS to command the MS to start / change hopping using the same frequency hopping parameters.</p>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_FreqDef(st : STRT; ma : MA; ch : LOGICCH; chd : CHD; ca : CCHD; frmn : FN)
Result Type	: BOOLEAN
Comments	:
Description	
<p>OM_FreqDef operation passes the frequency hopping parameters for channel 'ch' to lower layer emulator. The emulator starts using these frequency parameters at the frame number indicated by starting time 'st'. The parameter 'frmn' indicates a reference frame number at which the first burst of the message, FREQUENCY REDEFINITION, ASSIGNMENT COMMAND or HANDOVER COMMAND, containing starting time is sent in the concerned cell. If $0 \leq (st - frmn) \bmod 42432 \leq 31623$, the indicated time is the next time when frame number mod 42432 is equal to st. If $32024 \leq (st - frmn) \bmod 42432 \leq 42431$, the indicated time has already elapsed. After completely sending out the message containing the parameter starting time the tester starts frequency hopping.</p>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_GetHoaccPara(ch : LOGICCH)
Result Type	: HOACC_PARA
Comments	:
Description	
<p>OM_GetHoaccPara instructs the lower layer emulator to return the total number of the handover access bursts received on channel 'ch', the observed minimum and maximum power levels in dBm modulo 256 and the observed minimum and maximum timing advance in bits modulo 256. The lower layer emulator starts the observation of handover access bursts as soon as sending out a HANDOVER COMMAND message. The TSO returns an accumulative result of the observation when it is called.</p>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_GetL1Hd(ch : LOGICCH)
Result Type	: L1HD
Comments	:
Description	
OM_GetL1Hd instructs the L 2 emulator to read the L 1 header of the next SACCH frame received on channel 'ch' and return this value.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_NoL2Ack(i : INTEGER; ch: LOGICCH)
Result Type	: BOOLEAN
Comments	:
Description	
<p>When the parameter i > 0 the layer 2 emulator is put into a special operation mode then the TSO returns. In this special mode the layer 2 emulator shall not acknowledge the 'i'th occurrence of the L2 I frame which has the more data bit "M" = 0 on the channel 'ch'.</p> <p>The layer 2 emulator resumes normal operation when</p> <ul style="list-style-type: none"> – either the TSO is called again with i = 0 on the same channel 'ch', – or a data link SABM message is received on the channel 'ch'. 	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_NoUplinkTransmission_Asci (ch:LOGICCH)
Result Type	: BOOLEAN
Comments	:
Description	
<p>The operation checks that there is no uplink transmission on the channel 'ch' for 10s.</p> <p>The operation returns TRUE if there is no uplink transmission on the channel 'ch' for 10s, otherwise it return FALSE.</p>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_ImmAsgnFill_NCH (chnl : LOGICCH; cellid : CellID ; msg : IMMASS_PDU)
Result Type	: BOOLEAN
Comments	: The result returned by the operation is not used.
Description	
<p>OM_ImmAsgnFill operation sets up the contents of immediate assignment filling frame to be sent on all NCH blocks ('chnl' channel) continuously. If the contents of NCH frame in cell 'cellid' have not been set up, the operation sets the contents to 'msg'. If NCH frame in cell 'cellid' has been set up, the operation changes the paging filling message to 'msg'. After the required action has been taken it returns.</p>	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OM_PgFill(cellid : CellID ; msg : PG1_RQ_PDU)
Result Type	: BOOLEAN
Comments	: The result returned by the operation is not used.
Description	
OM_PgFill operation sets up the contents of paging filling frame to be sent on all paging subchannels continuously. If the contents of paging filling frame in cell 'cellid' have not been set up, the operation sets the contents to 'msg'. If paging filling frame in cell 'cellid' has been set up, the operation changes the paging filling message to 'msg'. After the required action has been taken it returns.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_Reactivate(ch1, ch2 : LOGICCH)
Result Type	: BOOLEAN
Comments	:
Description	
The TSO OM_Reactivate reactivates the logical channels 'ch1' and 'ch2' which were previously deactivated by the OM_Deactivate. Then the TSO returns TRUE. The ch1 is an SDCCH, the ch2 is the associated SACCH.	
Reactivation of deactivated SDCCH/SACCH channels means to restart normal transmissions both on the SDCCH and the associated SACCH as specified in the ETS 300 574 (GSM 05.02).	
Detailed Comments : The TSO is called in TC_26_7_3_2, TC_26_7_4_3_2, TC_26_7_4_3_3, TC_26_7_4_3_4 on the SDCCH/4 / SACCH/C4 channels.	

Test Suite Operation Definition	
Operation Name	: OM_ReturnFn(ch : LOGICCH)
Result Type	: FN
Comments	:
Description	
OM_ReturnFn operation returns the frame number (FN modulo 42432) on which the last L3 message was sent on logic channel 'ch'.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_SendNextOn(ch : LOGICCH; fn : FN)
Result Type	: BOOLEAN
Comments	:
Description	
OM_SendNextOn operation sets the lower layer emulator into a special operation mode then returns. In the special mode the lower layer emulator sends the next L3 message on the indicated frame number 'fn' on the 'ch' channel. After the next L3 message is sent, the lower layer resumes normal operation automatically.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_SendNextOnHO(ch : LOGICCH; cnt : INTEGER)
Result Type	: BOOLEAN
Comments	: Used in non-synchronised handover tests.
Description	
OM_SendNextOnHO operation sets the lower layer emulator into a special operation mode then returns. In the special mode the lower layer emulator waits for the number of Handover bursts specified by the parameter 'cnt' on channel 'ch' before sending the next L3 message. After the message is sent, the lower layer resumes normal operation automatically. The TSO does not affect any TTCN receiving event.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_StartMsrReport(ch : LOGICCH)
Result Type	: BOOLEAN
Comments	: The result returned by the operation is not used.
Description	
The operation starts the reporting of received MEASUREMENT REPORT message to layer 3 emulator, then it returns with value TRUE. Measurement Reports shall be disable by default. By default means that the tester filters them out from the TTCN in-buffer. This operation enables the reports entering the TTCN in-buffer. The OM_StopMsrReport operation disables the reports entering the TTCN in-buffer. When starting each test case, the measurement reports are filtered out by default.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_StopAllBCCH(cell1, cell2, cell3, cell4, cell5, cell6, cell7, cell8 : CellID)
Result Type	: BOOLEAN
Comments	: The result returned by the operation is not used.
Description	
The TSO stops the RF transmission on all BCCH channels including dummy bursts in the indicated cells, but keeps the uplink CCCH reception active. After all transmission have been stopped the TSO returns TRUE. If a cell in the parameter list is not in use a "dummy" value needs to be assigned to it by the calling test case. The TSO is called in TC_26_3_3.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_StopCell(cell : CellID)
Result Type	: BOOLEAN
Comments	: The result returned by the operation is not used.
Description	
<p>The TSO stops completely all RF transmission of the specific cell 'cell', including the dummy bursts on other slots. After all RF transmission have been stopped the TSO returns TRUE.</p> <p>The cell shall be deleted from the lower layer tester and therefore if the cell 'cell' is required again by the calling test case it needs to be re-configured.</p> <p>The TSO is called in TC_26_3_4, TC_26_6_6_1, TC_26_7_4_2_2_1, TC_26_7_4_2_2_2, TC_26_7_4_6, TC_31_6_2_3 and also in IdleUpdated.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_StopMsrReport(ch : LOGICCH)
Result Type	: BOOLEAN
Comments	: The result returned by the operation is not used.
Description	
<p>The operation stops the reporting of received MEASUREMENT REPORT message to layer 3 emulator, after measurement report stops it returns with value TRUE.</p> <p>Measurement Reports shall be disable by default. By default means that the tester filters them out from the TTCN in-buffer. This operation disables the reports entering the TTCN in-buffer. The OM_StartMsrReport operation enables the reports entering the TTCN in-buffer. When starting each test case, the measurement reports are filtered out by default.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_TCHThroConnNoUplink_Asci (VgcsVbsType:B_1; ch:LOGICCH)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation checks whether the TCH is downlink through connected for a VGCS/VBS call (depending on the type given as parameter). In addition the operation check that there is no uplink transmission on the channel 'ch' for 10s.</p> <p>The operation returns TRUE if TCH in downlink is through connected and if there is no uplink transmission on the channel 'ch' for 10s, otherwise it return FALSE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OM_TCHThroConn_Asci (VgcsVbsType:B_1; ch:LOGICCH)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation checks whether the TCH is through connected for a VGCS/VBS call (depending on the type given as parameter).</p> <p>The operation returns TRUE if TCH is through connected, otherwise it return FALSE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_AltIndCHK
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation first requests (e.g. from the control console of the test system) the test operator to check whether the alerting indication is generated based on the alerting indication PIXIT statement. If the operator informs (e.g. from the control console of the test system) the test system that the alerting indication is generated, the operation returns TRUE. If the operator informs the test system that the alerting indication is not generated, the operation returns FALSE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_AsciUserDesireTalking
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation requests (e.g. from the control console of the test system) the test operator to set at the MS a desire of talking. Returns TRUE when the MMI action has been done.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_CheckAsciReject (VgcsVbsType:B_1)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation requests (e.g. from the control console of the test system) to the test operator to check whether the MS rejects a VGCS/VBS related request (depending on the ASCI call type given as parameter). It returns TRUE if the MS rejects the ASCI request, otherwise it returns FALSE.</p> <p>vgcs_vbs_type = '0'B, a VBS configuration vgcs_vbs_type = '1'B, a VGCS configuration</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_CheckAsciiUserTalkInd
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation requests (e.g. from the control console of the test system) the test operator to check that the MS indicates, a user action is needed for showing a desire of talking.</p> <p>This operation returns TRUE, if MS indicates that a user action is needed for a desire of talking, otherwise, it returns FALSE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_CheckCallAutoAnswered
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation requests (e.g. from the control console of the test system) to the test operator to check whether the MS has automatically answered the call. This operation returns TRUE if the MS has automatically answered the call and returns FALSE otherwise.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_CheckNotifInd (call_ref: B_27)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This operation requests (e.g. from the control console of the test system) to the test operator to check that the MS gives an indication containing the notified group call reference 'call_ref'. It returns TRUE if the MS indicates the received notification and the notified group call reference, otherwise it returns FALSE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OO_CheckNotif_NoPriority (check_priority : BOOLEAN)
Result Type :	BOOLEAN
Comments :	
Description	
<p>OO_CheckNotif returns TRUE after the MS gives an indication of the paging information of a new MT call, in addition if the parameter 'check_priority' is set to TRUE the operation checks that no priority is indicated by the MS.</p> <p>If the MS gives an indication of the paging information of a new MT call, and if 'check_priority' = FALSE, the operation OO_CheckNotif returns TRUE.</p> <p>If the MS does not give an indication of the paging information of a new MT call, the operation OO_CheckNotif returns FALSE.</p> <p>If the MS gives an indication of the paging information of a new MT call, and if 'check_priority' = TRUE and the MS indicates a priority, the operation OO_CheckNotif returns FALSE.</p> <p>If the MS gives an indication of the paging information of a new MT call, and if 'check_priority' = TRUE and the MS does not indicate any priority, the operation OO_CheckNotif returns TRUE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OO_CheckPagingInfoInd (check_priority : BOOLEAN; emlpp:B_3)
Result Type :	BOOLEAN
Comments :	
Description	
<p>This operation requests (e.g. from the control console of the test system) to the test operator to check that the MS gives a paging indication for an MT call and the correct priority of the call, if any.</p> <p>OO_CheckNotif returns TRUE after the MS gives an indication of the paging information of a new MT call, in addition if the parameter 'check_priority' is set to TRUE the operation checks if the priority of the priority indicated by the MS corresponds to the value of the parameter 'emlpp'.</p> <p>If the MS gives an indication of the paging information of a new MT call, and 'check_priority' = FALSE the operation OO_CheckNotif returns TRUE.</p> <p>If the MS does not give an indication of the paging information of a new MT call, the operation OO_CheckNotif returns FALSE.</p> <p>If the MS gives an indication of the paging information of a new MT call, and 'check_priority' = TRUE and if the priority indicated by MS is equal to the value of 'emlpp', the operation OO_CheckNotif returns TRUE.</p> <p>If the MS gives an indication of the paging information of a new MT call, and 'check_priority' = TRUE and if the priority indicated by MS is not equal to 'emlpp', the operation OO_CheckNotif returns FALSE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OO_DownlinkMuted
Result Type :	BOOLEAN
Comments :	
Description	
<p>This operation requests (e.g. from the control console of the test system) to the test operator to check that the downlink TCH is muted. The operation returns TRUE if the downlink is muted.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OO_HookOff
Result Type :	BOOLEAN
Comments :	
Description	
<p>This operation requests (e.g. from the control console of the test system) the test operator to answer the mobile terminating call at the Mobile Station under test.</p> <p>This operation waits for the operator to acknowledge the request which may be done before or after the call has been answered and then returns the value TRUE.</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OO_IFsetup_Asci (vgcs_vbs_type : B_1)
Result Type :	BOOLEAN
Comments :	
Description	
<p>This TSO requests (e.g. from the control console of the test system) to the test operator configure the MS in such a way that the MS is able to successfully receive a VGCS or VBS call (depending on the type given as parameter). After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>vgcs_vbs_type = '0'B, a VBS configuration vgcs_vbs_type = '1'B, a VGCS configuration</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OO_IFsetup_Telephony
Result Type :	BOOLEAN
Comments :	
Description	
<p>This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or configuration of the MS in such a way that the MS is able to successfully receive the call for telephony service. If the MS supports both telephony without immediate connection mode and telephony with immediate connection mode, set the MS in telephony without immediate connection mode. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single-numbering scheme MT testing.</p>	
Detailed Comments : used for TS11 and TS12	

Test Suite Operation Definition

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

Result Type : BOOLEAN

Comments :

Description

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

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

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

The possible values are:

1) srv ----- basic service

- C_Async300 Basic Service 21, Asynchronous 300 bps
- C_Async1200 Basic Service 22, Asynchronous 1.2 kbps
- C_Async120075 Basic Service 23, Asynchronous 1200/75 bps
- C_Async2400 Basic Service 24, Asynchronous 2.4 kbps
- C_Async4800 Basic Service 25, Asynchronous 4.8 kbps
- C_Async9600 Basic Service 26, Asynchronous 9.6 kbps
- C_Sync1200 Basic Service 31, Synchronous 1.2 kbps
- C_Sync2400 Basic Service 32, Synchronous 2.4 kbps
- C_Sync4800 Basic Service 33, Synchronous 4.8 kbps
- C_Sync9600 Basic Service 34, Synchronous 9.6 kbps

2) itc ----- information transfer capability

- '001'B unrestricted digital information
- '010'B 3.1 kHz audio, ex PLMN

3) sacp ----- signalling access protocol

- '001'B I.440/450
- '010'B X.21
- '101'B X.28 – non dedicated PAD
- '110'B X.32

4) ce ----- connection element

- '00'B transparent
- '01'B non transparent

5) rate ----- channel rate

- C_Full full rate channel
- C_Half half rate channel

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

Test Suite Operation Definition

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

Result Type : BOOLEAN

Comments :

Description

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

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

The possible values are:

1) srv ----- basic service

- C_PAD300 Basic Service 41, PAD access 300 bps
- C_PAD1200 Basic Service 42, PAD access 1.2 kbps
- C_PAD120075 Basic Service 43, PAD access 1200/75 bps
- C_PAD2400 Basic Service 44, PAD access 2.4 kbps
- C_PAD4800 Basic Service 45, PAD access 4.8 kbps
- C_PAD9600 Basic Service 46, PAD access 9.6 kbps

2) ce ----- connection element

- '00'B transparent
- '01'B non transparent

3) rate ----- channel rate

- C_Full full rate channel
- C_Half half rate channel

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

Test Suite Operation Definition

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

Result Type : BOOLEAN

Comments :

Description

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

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

The possible values are:

1) srv ----- basic service

- C_Packet2400 Basic Service 51, Packet access 2.4 kbps
- C_Packet4800 Basic Service 52, Packet access 4.8 kbps
- C_Packet9600 Basic Service 53, Packet access 9.6 kbps

2) ur ----- user rate

- '0011'B 2400 bit/s
- '0100'B 4800 bit/s
- '0101'B 9600 bit/s

3) rate ----- channel rate

- C_Full full rate channel
- C_Half half rate channel

Detailed Comments : Used for BS51, BS52, BS53

Test Suite Operation Definition

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

Result Type : BOOLEAN

Comments :

Description

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

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

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

The possible values are:

1) srv ----- basic service

- C_AltSpchData Basic Service 61, Alternatie Speech/data
- C_SpchData Basic Service 81, Speech followed by data

2) ur ----- user rate

- '0001'B 300 bit/s
- '0010'B 1200 bit/s
- '0111'B 1200/75 bit/s
- '0011'B 2400 bit/s
- '0100'B 4800 bit/s
- '0101'B 9600 bit/s

3) sa ----- synchronous/asynchronous

- '0'B synchronous
- '1'B asynchronous

4) ce ----- connection element

- '00'B transparent
- '01'B non transparent

5) rate ----- channel rate

- C_Full full rate channel
- C_Half half rate channel

Detailed Comments : used for BS61 and BS81

Test Suite Operation Definition	
Operation Name : OO_IFsetup_TS6x_MO(srv : SERVICES; ur : B_4; ce : B_2; rate : IA5String)	
Result Type : BOOLEAN	
Comments :	
Description	
<p>This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS, when triggered, is able to initiate the call for TS61 and TS62 with the specified ur and ce values, and the first bearer capability is speech. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single-numbering scheme MT testing.</p> <p>Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.</p> <p>The possible values are:</p> <p>1) srv ----- basic service</p> <ul style="list-style-type: none"> - C_AltSpchFax Teleservice 61, Alternatie Speech and Facsimile group 3 - C_AutoFax Teleservice 62, Automatic Facsimile group 3 <p>2) ur ----- user rate</p> <ul style="list-style-type: none"> - '0011'B 2400 bit/s - '0100'B 4800 bit/s - '0101'B 9600 bit/s <p>3) ce ----- connection element</p> <ul style="list-style-type: none"> - '00'B transparent - '01'B non transparent <p>4) rate ----- channel rate</p> <ul style="list-style-type: none"> - C_Full full rate channel - C_Half half rate channel 	
Detailed Comments : used for TS61 and TS62	

Test Suite Operation Definition	
Operation Name : OO_IFsetup_BS2x_MT(srv : SERVICES; itc : B_3)	
Result Type : BOOLEAN	
Comments :	
Description	
<p>This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for the BS2x service 'srv' with the specified itc value. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT paramters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.</p>	
Detailed Comments : Used for BS21, BS22, BS24, BS25, BS26	

Test Suite Operation Definition	
Operation Name	: OO_IFsetup_BS3x_MT(srv : SERVICES; itc, sacp : B_3)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for the BS3x service 'srv' with specified itc and sacp values. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.</p>	
Detailed Comments : Used for BS31, BS32, BS33, BS34	

Test Suite Operation Definition	
Operation Name	: OO_IFsetup_BS61orBS81_MT(srv : SERVICES; ur : B_4; sa : B_1)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for BS61 or BS81 with the specified ur and sa values. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.</p>	
Detailed Comments : used for BS61 and BS81	

Test Suite Operation Definition	
Operation Name	: OO_IFsetup_TS6x_MT(srv : SERVICES; ur : B_4)
Result Type	: BOOLEAN
Comments	:
Description	
<p>This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for TS61 and TS62 with the specified ur value. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.</p> <p>Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.</p>	
Detailed Comments : used for TS61 and TS62	

Test Suite Operation Definition	
Operation Name : OO_InitCall(srv : SERVICES)	
Result Type : BOOLEAN	
Comments :	
Description	
This operation requests (e.g. from the control console of the test system) the test operator to initiate an MS originating call for the basic service 'srv', then returns TRUE. The calling test step can pass the 'srv' value either as TSPX or constant to the TSO. The necessary MS configuration has been done in the corresponding TSO OO_IFsetup_xx...xx_MO before this TSO is called.	
The possible service values include (see also test suite constant declarations):	
1) Teleservices	
- C_Telephony	----- TS11
- C_EmgCall	----- TS12
- C_AltSpchFax	----- TS61
- C_AutoFax	----- TS62
2) Bearer services	
- C_Async300	----- BS21
- C_Async1200	----- BS22
- C_Async120075	----- BS23
- C_Async2400	----- BS24
- C_Async4800	----- BS25
- C_Async9600	----- BS26
- C_Sync1200	----- BS31
- C_Sync2400	----- BS32
- C_Sync4800	----- BS33
- C_Sync9600	----- BS34
- C_PAD300	----- BS41
- C_PAD1200	----- BS42
- C_PAD120075	----- BS43
- C_PAD2400	----- BS44
- C_PAD4800	----- BS45
- C_PAD9600	----- BS46
- C_Packet2400	----- BS51
- C_Packet4800	----- BS52
- C_Packet9600	----- BS53
- C_AltSpchData	----- BS61
- C_SpchData	----- BS81
Detailed Comments :	

Test Suite Operation Definition	
Operation Name : OO_InitCall_Asci (VgcsVbsType:B_1) Result Type : BOOLEAN Comments :	
Description	
<p>This operation requests (e.g. from the control console of the test system) to the test operator to initiate an MS originating VBS or VGCS (depending on the parameter 'VgcsVbsType') call, then returns TRUE.</p> <p>vgcs_vbs_type = '0'B, a VBS configuration vgcs_vbs_type = '1'B, a VGCS configuration</p>	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_InitImmediateCall_Asci (VgcsVbsType:B_1)
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) to the test operator to initiate an MS originating VBS or VGCS (depending on the parameter 'VgcsVbsType') call with immediate setup, then returns TRUE. vgcs_vbs_type = '0'B, a VBS configuration vgcs_vbs_type = '1'B, a VGCS configuration	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_InitSS(action: IA5String)
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to initiate the required supplementary service by the MMI sequence 'action'. After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_Join_AsciCall (call_ref: B_27 ; VgcsVbsType:B_1)
Result Type	: BOOLEAN
Comments	:
Description	
This operation request the test operator to join the VGCS/VBS call (depending on the type given as parameter) referenced by the call reference given as parameter 'call_ref'. This operation returns TRUE when the test operator finishes the action. vgcs_vbs_type = '0'B, a VBS configuration vgcs_vbs_type = '1'B, a VGCS configuration	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_VGCS_QuitUplinkAccess (call_ref: B_27)
Result Type	: BOOLEAN
Comments	:
Description	
This operation request to the test operator to quit the VGCS uplink access for a call with the call reference given as 'call_ref'. This operation returns TRUE when the action of the operator is finished.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_VGCS_RequestUplinkAccess (call_ref: B_27)
Result Type	: BOOLEAN
Comments	:
Description	
This operation request the test operator to request the VGCS uplink access for a call with the call reference given as 'call_ref'.	
This operation returns TRUE when the action of the operator is finished.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_PLMNselModeAuto
Result Type	: BOOLEAN
Comments	:
Description	
This operation switches the PLMN selection mode of the MS to automatic selection. After correctly switching of the mode the operation returns TRUE otherwise FALSE.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_PLMNselModeMan
Result Type	: BOOLEAN
Comments	:
Description	
This operation switches the PLMN selection mode of the MS to manual selection. After correctly switching of the mode the operation returns TRUE otherwise FALSE.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_PowerUp
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to power up the Mobile Station under test and to inform after the test system, then it returns with value TRUE.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OO_PowerDown
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to power down the Mobile Station under test and to inform after the test system, then it returns with value TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_Reject_AsciCall (VgcsVbsType:B_1)
Result Type	: BOOLEAN
Comments	:
Description	
This operation request the test operator to reject an indicated new VGCS/VBS call (depending on the type given as parameter). This operation returns TRUE after the operate finish the action.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_RejectMTCall
Result Type	: BOOLEAN
Comments	:
Description	
This operation request the test operator to reject an indicated MT call. This operation returns TRUE after the operate finish the action.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SelectPriorityLevel (priorityLevel : INTEGER)
Result Type	: BOOLEAN
Comments	:
Description	
This operation request an MMI action to select the priority level given as parameter. When the priority level has been selected, the TSO returns TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SelPLMN(par_plmn:OCTETSTRING)
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to select the given PLMN in par_plmn manually, and to inform after the test system then the operation returns with value TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SIMIns
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to insert the SIM card into the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SIMRmv
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to remove the SIM card from the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SSresultCHK(svc : INTEGER)
Result Type	: BOOLEAN
Comments	:
Description	
This operation first requests (e.g. from the control console of the test system) the test operator to check the user indication of the result of the supplementary service ' svc'. If the operator informs (e.g. from the control console of the test system) the test system that the indication is correct, the operation returns TRUE. If the operator informs the test system that the indication is wrong, the operation returns FALSE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_StopAsciListening (callRef:B_27; VgcsVbsType:B_1)
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) to the test operator to stop an ASCI (VGCS or VBS depending on the parameter 'VgcsVbsType') listening to the call with the call reference 'callRef'. This operation returns TRUE when the action of the operator is finished.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SwitchOn
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to switch on (or if there is no switch then to restore the power to) the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_SwitchOff
Result Type	: BOOLEAN
Comments	:
Description	
This operation requests (e.g. from the control console of the test system) the test operator to switch off (or if there is no switch then to remove the power from) the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: OO_TermCall
Result Type	: BOOLEAN
Comments	:
Description	
This operation first requests (e.g. from the control console of the test system) the test operator to terminate the ongoing call. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, it returns TRUE.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name : OO_TguardTimeOut	
Result Type : BOOLEAN	
Comments :	
Description	
This operation informs (e.g. from the control console of the test system) the test operator that the T_guard timer has expired during the test case leading to an inconclusive or fail verdict and returns immediately with value TRUE.	
Detailed Comments :	

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPC_R96	BOOLEAN	PICS	release 96 supported
TSPC_R97	BOOLEAN	PICS	release 97 supported
TSPC_R98	BOOLEAN	PICS	release 98 supported
TSPC_R99	BOOLEAN	PICS	release 99 supported
TSPC_R00	BOOLEAN	PICS	release 2000 supported
TSPC_MTSvc	BOOLEAN	PICS Table A.25 Item 19	at least one MT circuit switched basic service supported
TSPC_MOSvc	BOOLEAN	PICS Table A.25 Item 20	at least one MO circuit switched basic service supported
TSPC_Serv_SS_UUS	BOOLEAN	PICS Table A.5 Item 21	TRUE if MS support UUS
TSPC_Serv_SS_ImpUUS1	BOOLEAN	PICS Table A.5 Item 22	TRUE if MS support implicit activation of UUS1
TSPC_Serv_SS_Send_UUS1_ALERTING	BOOLEAN	PICS Table A.5 Item 23	TRUE if MS support the sending of UUS1 information element in the ALERTING message
TSPC_Serv_SS_Send_UUS1_CONNECT	BOOLEAN	PICS Table A.5 Item 24	TRUE if MS support the sending of UUS1 information element in the CONNECT message
TSPC_Serv_SS_FollowMe	BOOLEAN	PICS Table A.5 Item 25	TRUE if MS support FM
TSPC_Serv_UTDI	BOOLEAN	PICS Table A.5 Item 26	TRUE if MS support User-to-dispatcher information
TSPC_Serv_Compr_UTDI	BOOLEAN	PICS Table A.5 Item 27	TRUE if MS support Compressed User-to-dispatcher information
TSPC_AlertInd	BOOLEAN	PICS Table A.25 Item 49	alerting indication to the user supported
TSPC_DCS	BOOLEAN	PICS Table A.1 Item 3	testing DCS1800
TSPC_DetachOnPwrDn	BOOLEAN	PICS Table A.25 Item 38	detach on power down supported
TSPC_DetachOnSIMRmv	BOOLEAN	PICS Table A.25 Item 39	detach on SIM remove supported
TSPC_DualRate	BOOLEAN	PICS Table A.25 Item 23	dual rate channel types supported
TSPC_EGSM	BOOLEAN	PICS Table A.1 Item 2	both standard and extended GSM band supported
TSPC_HalfRateData	BOOLEAN	PICS Table A.25 Item 6	half rate data supported
TSPC_HalfRateSpeech	BOOLEAN	PICS Table A.25 Item 3	half rate speech mode supported
TSPC_Serv_SS_HOLD	BOOLEAN	PICS Table A.5 Item 10	Call Hold SS supported
TSPC_PGSM	BOOLEAN	PICS Table A.1 Item 1	only standard GSM band supported
TSPC_Serv_TS11	BOOLEAN	PICS Table A.3 Item 1	telephony supported
TSPC_Serv_TS12	BOOLEAN	PICS Table A.3 Item 2	emergency call supported
TSPC_Serv_TS61	BOOLEAN	PICS	alternate speech and G3 fax (TS61) supported
TSPC_Serv_TS62	BOOLEAN	PICS	automatic G3 fax (TS62) supported

Continued on next page

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPC_Serv_BS21	BOOLEAN	PICS Table A.4 Item 1	data circuit duplex async 300 bit/s supported
TSPC_Serv_BS22	BOOLEAN	PICS Table A.4 Item 2	data circuit duplex async 1200 bit/s supported
TSPC_Serv_BS23	BOOLEAN	PICS Table A.4 Item 3	data circuit duplex async 1200/75 bit/s supported
TSPC_Serv_BS24	BOOLEAN	PICS Table A.4 Item 4	data circuit duplex async 2400 bit/s supported
TSPC_Serv_BS25	BOOLEAN	PICS Table A.4 Item 5	data circuit duplex async 4800 bit/s supported
TSPC_Serv_BS26	BOOLEAN	PICS Table A.4 Item 6	data circuit duplex async 9600 bit/s supported
TSPC_Serv_BS31	BOOLEAN	PICS Table A.4 Item 7	data circuit duplex sync 1200 bit/s supported
TSPC_Serv_BS32	BOOLEAN	PICS Table A.4 Item 8	data circuit duplex sync 2400 bit/s supported
TSPC_Serv_BS33	BOOLEAN	PICS Table A.4 Item 9	data circuit duplex sync 4800 bit/s supported
TSPC_Serv_BS34	BOOLEAN	PICS Table A.4 Item 10	data circuit duplex sync 9600 bit/s supported
TSPC_Serv_BS41	BOOLEAN	PICS Table A.4 Item 11	PAD access 300 bit/s supported
TSPC_Serv_BS42	BOOLEAN	PICS Table A.4 Item 12	PAD access 1200 bit/s supported
TSPC_Serv_BS43	BOOLEAN	PICS Table A.4 Item 13	PAD access 1200/75 bit/s supported
TSPC_Serv_BS44	BOOLEAN	PICS Table A.4 Item 14	PAD access 2400 bit/s supported
TSPC_Serv_BS45	BOOLEAN	PICS Table A.4 Item 15	PAD access 4800 bit/s supported
TSPC_Serv_BS46	BOOLEAN	PICS Table A.4 Item 16	PAD access 9600 bit/s supported
TSPC_Serv_BS51	BOOLEAN	PICS Table A.4 Item 17	packet access 2400 bit/s supported
TSPC_Serv_BS52	BOOLEAN	PICS Table A.4 Item 18	packet access 4800 bit/s supported
TSPC_Serv_BS53	BOOLEAN	PICS Table A.4 Item 19	packet access 9600 bit/s supported
TSPC_Serv_BS61	BOOLEAN	PICS	alternate speech/data (BS61) supported
TSPC_Serv_BS81	BOOLEAN	PICS	speech followed data (BS81) supported
TSPC_SIMRmv	BOOLEAN	PICS Table A.25 Item 40	SIM removable without power down supported
TSPC_SwitchOnOff	BOOLEAN	PICS Table A.2 Item 15	switch on/off supported
TSPC_EFR	BOOLEAN		Set to TRUE for MS supporting FR, v.1, plus any combination of the EFR, v.2, and HR, v.1 speech codecs, and FALSE otherwise.

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPC_EFR_Speech_v2	BOOLEAN		Set to TRUE for MS supporting EFR v.2 speech codecs and FALSE otherwise.
TSPC_VGCS_Listening	BOOLEAN		Set to TRUE for MS supporting VGCS listening and FALSE otherwise.
TSPC_VGCS_Talking	BOOLEAN		Set to TRUE for MS supporting VGCS talking and FALSE otherwise.
TSPC_VGCS_Originating	BOOLEAN		Set to TRUE for MS supporting VGCS originating and FALSE otherwise.
TSPC_VBS_Listening	BOOLEAN		Set to TRUE for MS supporting VBS listening and FALSE otherwise.
TSPC_VBS_Originating	BOOLEAN		Set to TRUE for MS supporting VBS originating and FALSE otherwise.
TSPC_Reduced_Monitoring	BOOLEAN		Set to TRUE for MS supporting reduced NCH monitoring.
TSPC_Serv_SS_CallWaiting	BOOLEAN		Call Waiting SS supported
TSPC_Serv_SS_eMLPP	BOOLEAN		Set to TRUE if MS supports eMLPP
TSPC_MonitorPCH_GroupTransmitMode	BOOLEAN		Set to TRUE if MS supports monitoring on PCH in group transmit mode
TSPC_RGSM	BOOLEAN		R-GSM band supported
TSPC_NCH_Monit_Rev	BOOLEAN	PICS Table A.25	NCH monitoring in group receive mode supported
TSPC_NCH_Monit_Tra	BOOLEAN	PICS Table A.25	NCH monitoring in group transmit mode supported
TSPC_NCH_Monit_Ded	BOOLEAN	PICS Table A.25	NCH monitoring in group Dedicated mode supported
TSPX_AltNb	BOOLEAN	PIXIT	use alternative neighbour cells description. default : FALSE
TSPX_TE_stopbit	B_1	PIXIT	TE conf. number stop bits. default value : '0'B, 1 bit
TSPX_TE_databit	B_1	PIXIT	TE conf. number data bits. default value : '1'B, 8 bits
TSPX_TE_FLCT	FLWCNTL	PIXIT	TE flow control. default : 0, outband flow control
TSPX_TE_parity	B_3	PIXIT	TE conf. parity. default : '001'B, no parity
TSPX_BS_21_itc1	B_3	PIXIT	itc value supported for BS21. default value : '001'B, UDI
TSPX_BS_21_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS21. default value : FALSE, only one itc

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_21_T_NT	BOOLEAN	PIXIT	both T and NT supported by BS21. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_21_ce	B_2	PIXIT	ce value used in MO call and if the answer to TSPX_BS_21_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent mode
TSPX_BS_21_sacp	B_3	PIXIT	sacp value used in MO call. default value : '001'B, I440/450
TSPX_BS_21_itc2	B_3	PIXIT	other itc value supported by BS21, it shall be differenet from the previous one if the answer to TSPX_BS_21_more_itc is TRUE. default value : '001'B, UDI
TSPX_BS_22_itc1	B_3	PIXIT	itc value supported by BS22. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_22_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS22. default value : FALSE, only one itc
TSPX_BS_22_T_NT	BOOLEAN	PIXIT	both T and NT supported by BS22. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_22_ce	B_2	PIXIT	ce value used in MO call and if the answer to TSPX_BS_22_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '01'B, non transparent
TSPX_BS_22_sacp	B_3	PIXIT	sacp value used in MO call. default value : '001'B, I440/450
TSPX_BS_22_itc2	B_3	PIXIT	other itc value supported by BS22, it shall be differenet from the previous one if the answer to TSPX_BS_22_more_itc is TRUE. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_23_itc	B_3	PIXIT	itc value supported by BS23. default value : '010'B, 3.1kHz audio, exPLMN

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_23_T_NT	BOOLEAN	PIXIT	both T and NT supported for BS23. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_23_ce	B_2	PIXIT	ce value used in MO call. default value : '00'B, transparent
TSPX_BS_23_sacp	B_3	PIXIT	sacp value used in MO call. default value : '001'B, I440/450
TSPX_BS_24_itc1	B_3	PIXIT	itc value supported by BS24. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_24_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS24. default value : FALSE, only one itc
TSPX_BS_24_T_NT	BOOLEAN	PIXIT	both T and NT supported by BS24. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_24_ce	B_2	PIXIT	ce value used in MO call and if the answer to TSPX_BS_24_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent
TSPX_BS_24_sacp	B_3	PIXIT	sacp value used in MO call. default value : '001'B, I440/450
TSPX_BS_24_itc2	B_3	PIXIT	other itc value supported by BS24, it shall be different from the previous one if the answer to TSPX_BS_24_more_itc is TRUE. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_25_itc1	B_3	PIXIT	itc value supported by BS25. default value : '001'B, UDI
TSPX_BS_25_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS25. default value : FALSE, only one itc
TSPX_BS_25_T_NT	BOOLEAN	PIXIT	both T and NT supported by BS25. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_25_ce	B_2	PIXIT	ce value used in MO call and if the answer to TSPX_BS_25_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_25_sacp	B_3	PIXIT	sacp value used in MO call. default value : '001'B, I440/450
TSPX_BS_25_itc2	B_3	PIXIT	other itc value supported by BS25, it shall be differenet from the previous one if the answer to TSPX_BS_25_more_itc is TRUE. default value : '001'B, UDI
TSPX_BS_26_itc1	B_3	PIXIT	itc value supported by BS26. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_26_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS26. default value : FALSE, only one itc
TSPX_BS_26_T_NT	BOOLEAN	PIXIT	both T and NT supported by BS26. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_26_ce	B_2	PIXIT	ce value used in MO call and if the answer to TSPX_BS_26_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent
TSPX_BS_26_sacp	B_3	PIXIT	sacp value used in MO call. default value : '001'B, I440/450
TSPX_BS_26_itc2	B_3	PIXIT	other itc value supported by BS26, it shall be differenet from the previous one if the answer to TSPX_BS_26_more_itc is TRUE. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_31_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS31. default value : FALSE, only one itc
TSPX_BS_31_more_sacp	BOOLEAN	PIXIT	more than one sacp value supported by BS31. default value : FALSE, only one sacp
TSPX_BS_31_itc1	B_3	PIXIT	itc value supported by BS31. default value : '001'B, UDI
TSPX_BS_31_sacp1	B_3	PIXIT	sacp value supported by BS31. default value : '001'B, I440/450
TSPX_BS_31_itc2	B_3	PIXIT	other itc value supported by BS31, it shall be differenet from the previous one if the answer to TSPX_BS_31_more_itc is TRUE. default value : '001'B, UDI

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_31_sacp2	B_3	PIXIT	other sacp value supported by BS31, it shall be different from the previous one if the answer to TSPX_BS_31_more_sacp is TRUE. default value : '001'B, I440/450
TSPX_BS_32_itc1	B_3	PIXIT	itc value supported by BS32. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_32_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS32. default value : FALSE, only one itc
TSPX_BS_32_more_sacp	BOOLEAN	PIXIT	more than one sacp value supported by BS32. default value : FALSE, only one sacp
TSPX_BS_32_sacp1	B_3	PIXIT	sacp value supported by BS32. default value : '110'B, X.32
TSPX_BS_32_X32_T_NT	BOOLEAN	PIXIT	BS 32 both T and NT supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_32_X32_ce	B_2	PIXIT	if the answer to TSPX_BS_32_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '01'B, non transparent
TSPX_BS_32_itc2	B_3	PIXIT	other itc value supported by BS32, it shall be different from the previous one if the answer to TSPX_BS_32_more_itc is TRUE. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_32_sacp2	B_3	PIXIT	other sacp value supported by BS32, it shall be different from the previous one if the answer to TSPX_BS_32_more_sacp is TRUE. default value : '110'B, X.32
TSPX_BS_33_itc1	B_3	PIXIT	itc value supported by BS33. default value : '001'B, UDI
TSPX_BS_33_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS33. default value : FALSE, only one itc
TSPX_BS_33_more_sacp	BOOLEAN	PIXIT	more than one sacp value supported by BS33. default value : FALSE, only one sacp
TSPX_BS_33_sacp1	B_3	PIXIT	sacp value supported by BS33. default value : '010'B, X.21

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_33_X32_T_NT	BOOLEAN	PIXIT	BS 33 both T and NT supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_33_X32_ce	B_2	PIXIT	if the answer to TSPX_BS_33_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent
TSPX_BS_33_itc2	B_3	PIXIT	other itc value supported by BS32, it shall be different from the previous one if the answer to TSPX_BS_33_more_itc is TRUE. default value : '001'B, UDI
TSPX_BS_33_sacp2	B_3	PIXIT	other sacp value supported by BS33, it shall be different from the previous one if the answer to TSPX_BS_33_more_sacp is TRUE. default value : '010'B, X.21
TSPX_BS_34_itc1	B_3	PIXIT	itc value supported by BS34. default value : '010'B, 3.1kHz audio, exPLMN
TSPX_BS_34_more_itc	BOOLEAN	PIXIT	more than one itc value supported by BS34. default value : FALSE, only one itc
TSPX_BS_34_more_sacp	BOOLEAN	PIXIT	more than one sacp value supported by BS34. default value : FALSE, only one sacp
TSPX_BS_34_sacp1	B_3	PIXIT	sacp value supported by BS34. default value : '001'B, I440/450
TSPX_BS_34_X32_T_NT	BOOLEAN	PIXIT	BS 34 both T and NT supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_34_X32_ce	B_2	PIXIT	if the answer to TSPX_BS_34_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent
TSPX_BS_34_itc2	B_3	PIXIT	other itc value supported by BS34, it shall be different from the previous one if the answer to TSPX_BS_34_more_itc is TRUE. default value : '010'B, 3.1kHz audio, exPLMN

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_34_sacp2	B_3	PIXIT	other sacp value supported by BS34, it shall be different from the previous one if the answer to TSPX_BS_34_more_sacp is TRUE. default value : '001'B, I440/450
TSPX_BS_41_T_NT	BOOLEAN	PIXIT	BS41 both T and NT supported . default value : FALSE, not support both
TSPX_BS_41_ce	B_2	PIXIT	ce value used in BS41 MO call. default value : '00'B, transparent
TSPX_BS_42_T_NT	BOOLEAN	PIXIT	BS42 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_42_ce	B_2	PIXIT	ce value used in BS42 MO call. default value : '010'B, non transparent
TSPX_BS_43_T_NT	BOOLEAN	PIXIT	BS43 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_43_ce	B_2	PIXIT	ce value used in BS43 MO call. default value : '00'B, transparent
TSPX_BS_44_T_NT	BOOLEAN	PIXIT	BS44 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_44_ce	B_2	PIXIT	ce value used in BS44 MO call. default value : '00'B, transparent
TSPX_BS_45_T_NT	BOOLEAN	PIXIT	BS45 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_45_ce	B_2	PIXIT	ce value used in BS45 MO call. default value : '01'B, non transparent
TSPX_BS_46_T_NT	BOOLEAN	PIXIT	BS46 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_46_ce	B_2	PIXIT	ce value used in BS46 MO call. default value : '00'B, transparent
TSPX_BS_61_S	BOOLEAN	PIXIT	synchronous data supported by BS 61 . default value : TRUE, synchronous mode

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_61_S_more_ur	BOOLEAN	PIXIT	more than one user rate for synchronous data service supported by BS61. default value : FALSE, only one user rate
TSPX_BS_61_S_ur1	B_4	PIXIT	usrer rate value supported for synchronous data service of BS61. default value : '0100'B, 4.8 kbit/s
TSPX_BS_61_S_ur2	B_4	PIXIT	another usrer rate value supported for synchronous data service of BS61. it shall be different from the previous one if the answer to TSPX_BS_61_S_more_ur is TRUE. default value : '0100'B, 4.8 kbit/s
TSPX_BS_61_A	BOOLEAN	PIXIT	asynchronous data service supported by BS61 . default value : TRUE, asynchronous
TSPX_BS_61_A_ur1	B_4	PIXIT	usrer rate value supported for asynchronous data service of BS61. default value : '0101'B, 9.6 kbit/s
TSPX_BS_61_A_ur1_T_NT	BOOLEAN	PIXIT	both T and NT supported for the rate TSPX_BS_61_A_ur1 of BS61. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_61_A_ur1_ce	B_2	PIXIT	if the answer to TSPX_BS_61_A_ur1_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent
TSPX_BS_61_A_more_ur	BOOLEAN	PIXIT	more than one user rate for asynchronous data service supported by BS61. default value : FALSE, only one user rate
TSPX_BS_61_A_ur2	B_4	PIXIT	another usrer rate value supported for asynchronous data service of BS61. it shall be different from the previous one if the answer to TSPX_BS_61_A_more_ur is TRUE. default value : '0101'B, 9.6 kbit/s

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_61_A_ur2_T_NT	BOOLEAN	PIXIT	both T and NT supported for the rate TSPX_BS_61_A_ur2 of BS61. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_81_S	BOOLEAN	PIXIT	synchronous data supported by BS 81. default value : TRUE, synchronous mode
TSPX_BS_81_S_more_ur	BOOLEAN	PIXIT	more than one user rate for synchronous data service supported by BS81. default value : FALSE, only one user rate
TSPX_BS_81_S_ur1	B_4	PIXIT	usrer rate value supported for synchronous data service of BS81. default value : '0101'B, 9.6 kbit/s
TSPX_BS_81_S_ur2	B_4	PIXIT	another usrer rate value supported for synchronous data service of BS81. it shall be different from the previous one if the answer to TSPX_BS_81_S_more_ur is TRUE. default value : '0101'B, 9.6 kbit/s
TSPX_BS_81_A	BOOLEAN	PIXIT	asynchronous data service supported by BS81. default value : TRUE, asynchronous mode
TSPX_BS_81_A_ur1	B_4	PIXIT	usrer rate value supported for asynchronous data service of BS81. default value : '0100'B, 4.8 kbit/s
TSPX_BS_81_A_ur1_T_NT	BOOLEAN	PIXIT	both T and NT supported for the rate TSPX_BS_81_A_ur1 of BS81. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_81_A_ur1_ce	B_2	PIXIT	if the answer to TSPX_BS_81_A_ur1_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '01'B, non transparent
TSPX_BS_81_A_more_ur	BOOLEAN	PIXIT	more than one user rate for asynchronous data service supported by BS81. default value : FALSE, only one user rate

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_81_A_ur2	B_4	PIXIT	another user rate value supported for asynchronous data service of BS81. it shall be different from the previous one if the answer to TSPX_BS_81_A_more_ur is TRUE. default value : '0100'B, 4.8 kbit/s
TSPX_BS_81_A_ur2_T_NT	BOOLEAN	PIXIT	both T and NT supported for the rate TSPX_BS_81_A_ur2 of BS81. default value : FALSE, not support both transparent and non transparent modes
TSPX_TS_61_T_NT	BOOLEAN	PIXIT	both T and NT supported for TS61(fax). default value : FALSE, not support both transparent and non transparent modes
TSPX_TS_61_ce	B_2	PIXIT	if the answer to TSPX_TS_61_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '01'B, non transparent
TSPX_TS_61_ur1	B_4	PIXIT	user rate for TS61(fax). default value : '0101'B, 9.6 kbit/s
TSPX_TS_61_more_ur	BOOLEAN	PIXIT	more than one user rate supported for TS61. default value : FALSE, only one user rate
TSPX_TS_61_ur2	B_4	PIXIT	another user rate for TS61, it shall be different from the previous one if the answer to TSPX_TS_61_more_ur is TRUE. default value : '0101'B, 9.6 kbit/s
TSPX_TS_62_T_NT	BOOLEAN	PIXIT	both T and NT supported for TS62. default value : FALSE, not support both transparent and non transparent modes
TSPX_TS_62_ce	B_2	PIXIT	if the answer to TSPX_TS_62_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent
TSPX_TS_62_ur1	B_4	PIXIT	user rate for TS62. default value : '0100'B, 4.8 kbit/s
TSPX_TS_62_more_ur	BOOLEAN	PIXIT	more than one user rate supported by TS62. default value : FALSE, only one user rate

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_TS_62_ur2	B_4	PIXIT	another user rate for TS62, it shall be different from the previous one if the answer to TSPX_TS_62_more_ur is TRUE. default value : '0100'B, 4.8 kbit/s
TSPX_DTMF	B_1	PIXIT	call control capabilities: value '1'B means MS supports DTMF
TSPX_modF	CHMOD_VAL	PIXIT	any non signalling full rate channel mode for TC_26_6_4_1
TSPX_CKSNA	CKSN	PIXIT	cipher key sequence number
TSPX_CKSNDf	CKSN	PIXIT	default cipher key sequence number
TSPX_RfPwrCap	B_3	PIXIT	RF power capability
TSPX_RevLevel	B_2	PIXIT	Revision level of classmark 1
TSPX_CiphAlgA5_1	B_1	PIXIT	A5/1 algorithm: '1'B : available, '0'B: not available
TSPX_CiphAlgA5_2	B_1	PIXIT	A5/2 algorithm: '1'B : available, '0'B: not available
TSPX_CiphAlgA5_3	B_1	PIXIT	A5/3 algorithm: '1'B : available, '0'B: not available
TSPX_EsInd	B_1	PIXIT	Early classmark sending implementation '0'B: not impl.
TSPX_pSyncCap	B_1	PIXIT	pseudo synchronisation capability, '0'B: not present '1'B: present
TSPX_SSscrnInd	B_2	PIXIT	SS screen indicator
TSPX_SMCap	B_1	PIXIT	short message capability, '0'B: not present '1'B: present
TSPX_frqCap	B_1	PIXIT	frequency capability. DCS: reserved, GSM: '0'B not support extension band, '1'B support extension band
TSPX_ClsMk3	B_1	PIXIT	classmark 3 indicator, '0'B no addition capability info, '1'B additional capability info in class mark 3
TSPX_CphAlgB	CPHALG	PIXIT	ciphering algorithm supported
TSPX_CphAlgDef	CPHALG	PIXIT	default ciphering algorithm
TSPX_NoOfHoAccA	INTEGER	PIXIT	number of handover access bursts, value range 10 – 20
TSPX_NoOfHoAccB	INTEGER	PIXIT	number of handover access bursts, value range 10 – 20
TSPX_NoOfHoAccC	INTEGER	PIXIT	number of handover access bursts, value range 10 – 20
TSPX_HoRefA	HORF	PIXIT	Hand over reference, GSM 04.08, 10.5.2.15
TSPX_HoRefB	HORF	PIXIT	Hand over reference, GSM 04.08, 10.5.2.15

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_HoRefC	HORF	PIXIT	Hand over reference, GSM 04.08, 10.5.2.15
TSPX_HoRefH	HORF	PIXIT	Hand over reference, GSM 04.08, 10.5.2.15
TSPX_HSN	INTEGER	PIXIT	Hopping sequence number value range: 0 – 63
TSPX_IMSI	HEXSTRING	PIXIT	IMSI of the MS
TSPX_Ki	BITSTRING	PIXIT	default authentication key used in testing
TSPX_MAIO	INTEGER	PIXIT	mobile allocation index offset, value range: 0 – 63
TSPX_MSTxpwrMax	MAXTXPOW	PIXIT	maximum output power from MS
TSPX_PwrlvIA	INTEGER	PIXIT	power level, value between 2 to 15
TSPX_PwrlvIB	INTEGER	PIXIT	power level, value between 2 to 15
TSPX_PwrlvID	INTEGER	PIXIT	power level, value between 2 to 15
TSPX_RANDDef	RAND	PIXIT	default challenge RAND
TSPX_SDCCH4SubA	B_2	PIXIT	TDMA offset of SDCCH/4 subchannel
TSPX_SDCCH4SubB	B_2	PIXIT	TDMA offset of SDCCH/4 subchannel
TSPX_SDCCH4SubC	B_2	PIXIT	TDMA offset of SDCCH/4 subchannel
TSPX_SDCCH4SubDef	B_2	PIXIT	TDMA offset of default SDCCH/4 subchannel
TSPX_SDCCH8SubDef	B_3	PIXIT	TDMA offset of default SDCCH/8 subchannel
TSPX_TimadvA	INTEGER	PIXIT	timing advance
TSPX_TmSltA	SN	PIXIT	time slot
TSPX_TmSltB	SN	PIXIT	time slot
TSPX_TmSltC	SN	PIXIT	time slot
TSPX_TmSltF	SN	PIXIT	time slot
TSPX_TmSltDef	SN	PIXIT	default time slot
TSPX_TmSltNotZero	SN	PIXIT	time slot, arbitrarily value, but not zero.
TSPX_TscA	TSC	PIXIT	training sequence code
TSPX_TscB	TSC	PIXIT	training sequence code
TSPX_TscC	TSC	PIXIT	training sequence code
TSPX_TscF	TSC	PIXIT	training sequence code
TSPX_TscDef	TSC	PIXIT	default TSC
TSPX_TCHcarrierA_ho	INTEGER	PIXIT	the value can be choosen arbitrarily from cell allocation of cell A (GSM), but not BCCH carrier .possible value is : 10, 17, 26, 34, 42, 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_TCHcarrierA_hod	INTEGER	PIXIT	the value can be chosen arbitrarily from cell allocation of cell A (DCS), but not BCCH carrier . possible value is : 734,741,754,759,762,766,767,773,775,779,782,791,798,829,832,844
TSPX_TCHcarrierB	INTEGER	PIXIT	TCH and SDCCH channel frequency number of cell B (GSM)
TSPX_TCHcarrierBd	INTEGER	PIXIT	TCH and SDCCH channel frequency number of cell B (DCS)
TSPX_TCHcarrierB_ho	INTEGER	PIXIT	the value can be chosen arbitrarily from cell allocation of cell B (GSM), but not BCCH carrier . possible value is : 14,18,22,24,30,31,38,60,66,73,74,75,76,108,114
TSPX_TCHcarrierB_hod	INTEGER	PIXIT	not BCCH carrier of cell B. the value can be chosen arbitrarily from cell allocation of cell B (DCS), which is (739,743,746,749,756,758,761,771,779,782,791,798,829,832,844)
TSPX_TCHHSubDef	B_1	PIXIT	TDMA offset of default half rate subchannel
TSPX_TMSI	TMSI_V	PIXIT	TMSI of the MS used in test
TSPX_TMSI1	TMSI_V	PIXIT	another TMSI used in test which shall differ from TSPX_TMSI, TSPX_TMSI + '01'O, TSPX_TMSI + '02'O, TSPX_TMSI + '03'O
TSPX_Uupd	B_8	PIXIT	user-user protocol discriminator
TSPX_UuInfo	OCTETSTRING	PIXIT	user-user information
TSPX_k	INTEGER	PIXIT	timing of cell A before cell B k bit periods for TC_26_6_5_1, TC_26_6_5_2_?, TC_26_6_5_3_?, TC_26_6_5_4_?.
TSPX_i1Para	INTEGER	PIXIT	for TC_26_1_2
TSPX_MTBscSvcA	SERVICES	PIXIT	any supported MT basic service
TSPX_MTChRateA	RATE	PIXIT	channel rate for TSPX_MTBscSvcA, default value : C_Full
TSPX_MTChRateB	RATE	PIXIT	channel rate for TSPX_MTBscSvcB, default value : C_Full

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_VCallref_Active1	B_27	PIXIT	VGCS/VBS call reference active Default value proposed '000100000000000000000000 1100'B (in accordance with Group ID 1 defined on the SIM card see 11.10 Annex 4, and with a group area ID set to '0001')
TSPX_VCallref_Active2	B_27	PIXIT	VGCS/VBS call reference active Default value proposed '010000000001100000011 1100'B (in accordance with Group ID 4 defined on the SIM card see 11.10 Annex 4, and with a group area ID set to '0100')
TSPX_VCallref_Active3	B_27	PIXIT	VGCS/VBS call reference active Default value proposed '001000000010011100010 0100'B (in accordance with Group ID 20 defined on the SIM card see 11.10 Annex 4, and with a group area ID set to '0010')
TSPX_VCallref_Active4	B_27	PIXIT	VGCS/VBS call reference active Default value proposed '001101010001011000000 1110'B (in accordance with Group ID 30 defined on the SIM card see 11.10 Annex 4, and with a group area ID set to '0011')
TSPX_VCallref_Active5	B_27	PIXIT	VGCS/VBS call reference active Default value proposed '010110000111101000100 1111'B (in accordance with Group ID 50 defined in the SIM card see 11.10 Annex 4, and with a group area ID set to '0101')
TSPX_VCallref_NotActive	B_27	PIXIT	VGCS/VBS call reference not active Default value proposed '001000001001110010000 0010'B (in accordance with Group ID 48 defined on the SIM card see 11.10 Annex 4, and with a group area ID set to '0010').
TSPX_UIC	B_6	PIXIT	VGCS Uplink Identity Code of the IUT.
TSPX_T_Term	INTEGER	PIXIT	Value in ms of the timer Tterm.

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_EmgCallRate	RATE	PIXIT	Rate for the basic service supported for MO emergency calls
TSPX_Telephony_Rate	RATE	PIXIT TC	channel rate for TS11, default value : "F"
TSPX_MOBscSvcA	SERVICES	PIXIT	any supported MO basic service
Detailed Comments :			

Test Case Selection Expression Definitions

Expression Name	Selection Expression	Comments
SelExpr_96	TSPC_R96 OR TSPC_R97 OR TSPC_R98 OR TSPC_R99 OR TSPC_R00	Release 96 supported
SelExpr_99	TSPC_R99 OR TSPC_R00	Release 99 supported
SelExpr_00	TSPC_R00	Release 2000 supported
SelExpr_2101	(TSPC_VGCS_Listening OR TSPC_VBS_Listening) AND SelExpr_96	At least one VBS or VGCS call listening is supported.
SelExpr_2102	TSPC_Reduced_Monitoring AND TSPC_NCH_Monit_Rev AND TSPC_NCH_Monit_Tra AND TSPC_NCH_Monit_Ded	Reduced monitoring is supported and at least one VBS or VGCS call listening is supported.
SelExpr_2103	TSPC_VGCS_Talking	VGCS talking is supported
SelExpr_2104	TSPC_VGCS_Talking OR TSPC_VBS_Originating	VGCS talking is supported or VBS originating is supported.
SelExpr_2105	TSPC_VBS_Originating	VBS originating is supported.
SelExpr_2106	TSPC_VGCS_Originating OR TSPC_VBS_Originating	VGCS Originating or VBS originating is supported.
SelExpr_2107	TSPC_VGCS_Listening	VGCS listening supported.
SelExpr_2108	TSPC_VGCS_Originating	VGCS originating is supported.
SelExpr_2120	TSPC_VBS_Originating AND TSPC_Serv_UTDI AND SelExpr_00	VBS originating and User-to-dispatcher information is supported and Release 2000 supported.
SelExpr_2121	TSPC_VGCS_Originating AND TSPC_Serv_Compr_UTDI AND SelExpr_00	VGCS originating and User-to-dispatcher information is supported and Release 2000 supported.
SelExpr_2800	TSPC_Serv_SS_eMLPP AND SelExpr_96	eMLPP is supported
SelExpr_2801	TSPC_Serv_TS11	eMLPP and TS11 are supported
SelExpr_2802	(TSPC_VGCS_Listening OR TSPC_VBS_Listening)	eMLPP is supported and VGCS or VBS call listening is also supported
SelExpr_2803	TSPC_Serv_TS11 AND TSPC_Serv_SS_CallWaiting AND TSPC_Serv_SS_HOLD	eMLPP, TS11, Call waiting and hold are supported
SelExpr_2840	TSPC_Serv_SS_UUS AND SelExpr_99	TRUE if MS support UUS
SelExpr_2841	TSPC_Serv_SS_ImpUUS1	
SelExpr_2842	TSPC_MOsvc AND TSPC_Serv_TS11	mobile originating circuit switched basic service supported and telephony supported and implicit activation of UUS1 supported.
SelExpr_2843	TSPC_MTsvc AND TSPC_Serv_TS11	mobile terminating circuit switched basic service supported and telephony supported and implicit activation of UUS1 supported.
SelExpr_2844	TSPC_MTsvc AND TSPC_MOsvc AND TSPC_Serv_TS11 AND TSPC_Serv_SS_HOLD	mobile originating and terminating circuit switched basic service supported and telephony supported and implicit activation of UUS1 supported and call hold supported.
SelExpr_2870	TSPC_Serv_SS_FollowMe AND SelExpr_99	TRUE if MS support Follow Me and Release 99

Detailed Comments :

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_U4	CCSTATE	4	CC state U4
C_Sys4ro_Default	INTEGER	0	SYSINFO4 with default rest octets
C_Sys4ro_Cell	INTEGER	1	SYSINFO4 with si4RestOctets including cell information
C_VGCSType	B_1	'1'B	
C_VBSType	B_1	'0'B	
C_CallMT	INTEGER	0	Value to indicate the Ascii call is not initiated by MS
C_CallMO	INTEGER	1	Value to indicate the Ascii call is initiated by MS
C_GroupReceive	INTEGER	0	Value to indicate MS is in group receive mode
C_GroupTransmit	INTEGER	1	Value to indicate MS is in group transmit mode
C_Dummy4	B_4	'????'B	Dummy value for a BITSTRING[4]
C_arfcnA	INTEGER	20	ARFCN 20
C_arfcn_2	INTEGER	2	ARFCN 2
C_arfcnB	INTEGER	10	ARFCN of cell B
C_arfcnAd	INTEGER	590	ARFCN 590
C_arfcnAd_2	INTEGER	514	ARFCN 514
C_arfcnAd_4	INTEGER	747	ARFCN 747
C_arfcnBd	INTEGER	520	ARFCN 520
C_arfcn_tchA	INTEGER	30	ARFCN 30
C_arfcn_tchAd	INTEGER	650	ARFCN 650
C_arfcn_tchB	INTEGER	114	ARFCN 114
C_arfcn_tchBd	INTEGER	844	ARFCN 844
C_arfcn_tchAsci1	INTEGER	50	ARFCN 50
C_arfcn_tchAsci1d	INTEGER	750	ARFCN 750
C_arfcn_tchAsci2	INTEGER	70	ARFCN 70
C_arfcn_tchAsci2d	INTEGER	850	ARFCN 850
C_arfcn_tchAsci3	INTEGER	60	ARFCN 60
C_arfcn_tchAsci3d	INTEGER	830	ARFCN 830
C_asciService_default	INTEGER	0	Default ascii service
C_asciService_vgcs	INTEGER	1	VGCS service
C_asciService_vbs	INTEGER	2	VBS service
C_BCCHcarrierB_ho	INTEGER	40	BCCH frequency number of cell B for Ho cases (GSM: 40)
C_BCCHcarrierB_hod	INTEGER	764	BCCH frequency number of cell B for Ho cases (DCS:764)
C_Noarfcn	INTEGER	65534	No arfcn defined (hopping channel)
C_ATT_0	INTEGER	0	Attach value 0
C_ATT_1	INTEGER	1	Attach value 1
C_NCC	NCC	'001'B	Network color code
C_NCC_3	NCC	'011'B	Network color code value '011'B

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_NCCP_2	NCCP	'02'O	Network color code permitted value '02'O
C_NCCP_10	NCCP	'0A'O	Network color code permitted value '0A'O
C_BCC	BCC	'101'B	Base Station color code
C_BCC_0	BCC	'000'B	Base Station color code value 0
C_BCC_1	BCC	'001'B	Base Station color code value 1
C_BCC_3	BCC	'011'B	Base Station color code value 3
C_BCC_7	BCC	'111'B	Base Station color code value 7
C_cch_1nonComb	B_3	'000'B	cch_con = 1 basic ch non combined
C_cch_1Comb	B_3	'001'B	cch_con = 1 basic ch combined
C_cch_2nonComb	B_3	'010'B	cch_con = 2 basic chs non combined
C_cch_3nonComb	B_3	'100'B	cch_con = 3 basic chs non combined
C_cch_4nonComb	B_3	'110'B	cch_con = 4 basic chs non combined
C_ChMod_s	CHMOD_VAL	'00000000'B	Mode : signalling only.
C_ChMod_r	CHMOD_VAL	'00000001'B	Mode : speech full or half rate, version 1.
C_ChMod_r2	CHMOD_VAL	'00100001'B	Mode : enhanced speech full or half rate – version 2.
C_ChMod_12k	CHMOD_VAL	'00000011'B	Mode : 12k radio rate.
C_ChMod_6k	CHMOD_VAL	'00001011'B	Mode : 6k radio rate.
C_ChMod_3k	CHMOD_VAL	'00010011'B	Mode : 3.6k radio rate.
C_Sap0	SAPID	'00'O	service access point 0
C_CellA	CellID	"C_CellA"	cell A --- cell 1
C_CellB	CellID	"C_CellB"	cell B --- cell 2
C_CellC	CellID	"C_CellC"	cell C --- cell 3
C_CellD	CellID	"C_CellD"	cell D --- cell 4
C_CellE	CellID	"C_CellE"	cell E --- cell 5
C_CellF	CellID	"C_CellF"	cell F --- cell 6
C_CellG	CellID	"C_CellG"	cell G --- cell 7
C_CellH	CellID	"C_CellH"	cell H --- cell 8
C_ci_cellA	CI	'0001'O	Cell Id for cell A
C_ci_cellB	CI	'0002'O	Cell Id for cell B
C_ci_cellC	CI	'0003'O	Cell Id for cell C
C_ci_cellD	CI	'0004'O	Cell Id for cell D
C_ci_cellE	CI	'0005'O	Cell Id for cell E
C_ci_cellF	CI	'0006'O	Cell Id for cell F
C_ci_cellG	CI	'0007'O	Cell Id for cell G
C_ci_cellH	CI	'0008'O	Cell Id for cell H
C_E_default	INTEGER	63	Default field strength

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_E_neighbourdefault	INTEGER	53	Default field strength of neighbouring cells.
C_E_suitable	INTEGER	45	Field strength of a suitable cell
C_E_otsuitable	INTEGER	-10	Field strength of a not suitable cell for reselection
C_E_otsuitable_fSel	INTEGER	24	Field strength of a not suitable cell for selection
C_BABR_0	B_3	'000'B	BABR value 0
C_BABR_1	B_3	'001'B	BABR value 1
C_BABR_5	B_3	'101'B	BABR value 5
C_BPM_3	B_3	'011'B	BPM value 3, 5 multiframes
C_Speech	B_3	'000'B	Info. Transfer Cap. speech
C_T3212_0	OCTETSTRING	'00'O	T3212 infinite
C_LAC_1	OCTETSTRING	'0001'O	lac 1.
C_LAC_2	OCTETSTRING	'0002'O	lac 2.
C_MCC_1	OCTETSTRING	'00F1'O	MCC 1
C_Max_1	INTEGER	1	Max Retrans value 1
C_NECI_0	INTEGER	0	NECI value 0, not supported
C_PLMN_1	OCTETSTRING	'10'O	PLMN 1 (mnc=01)
C_PLMN_2	OCTETSTRING	'20'O	PLMN 2 (mnc=02)
C_TxInt_5	INTEGER	5	Tx Integer value 5
C_NotCombined	BOOLEAN	FALSE	CCCH not combined with SDCCH
C_Combined	BOOLEAN	TRUE	CCCH combined with SDCCH
C_CHSDCCH8_FH	OCTETSTRING	'00'O	ch.type SDCCH8 with FH
C_CHSDCCH8_NonFH	OCTETSTRING	'01'O	ch.type SDCCH8 No FH
C_CHSDCCH4_NonFH	OCTETSTRING	'03'O	ch.type SDCCH4 NoFH
C_CHTCHF_FH	OCTETSTRING	'04'O	ch.type TCHF FH
C_CHTCHF_NonFH	OCTETSTRING	'05'O	ch.type TCHF NonFH
C_CHTCHH_FH	OCTETSTRING	'06'O	ch.type TCHH FH
C_CHTCHH_NonFH	OCTETSTRING	'07'O	ch.type TCHH NonFH
C_TCHF_ACCHF_1	LOGCH	"C_TCHF_ACCHF_1"	first TCH/F + ACCHs type channel
C_TCHF_ACCHF_2	LOGCH	"C_TCHF_ACCHF_2"	second TCH/F + ACCHs type channel
C_TCHH_ACCHH_1	LOGCH	"C_TCHH_ACCHH_1"	first TCH/H + ACCHs type channel
C_FCCH_SCH_BCCH_CCCH	LOGCH	"C_FCCH_SCH_BCCH_CCCH"	FCCH_SCH_BCCH_CCCH type channel
C_BCCH_CCCH_2	LOGCH	"C_BCCH_CCCH_2"	second BCCH_CCCH type channel
C_BCCH_CCCH_3	LOGCH	"C_BCCH_CCCH_3"	third BCCH_CCCH type channel
C_BCCH_CCCH_4	LOGCH	"C_BCCH_CCCH_4"	fourth BCCH_CCCH type channel
C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4	LOGCH	"C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4"	combined CCCH type channel

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_CBCH_FCCH_SCH_BC CH_CCCH_SDCCH4_SAC CHC4	LOGCH	"C_CBCH_FCCH_SCH_B CCH_CCCH_SDCCH4_SA CCHC4"	combined CCCH type channel for cell broadcast SM
C_SDCCH8_SACCHC8_1	LOGCH	"C_SDCCH8_SACCHC8_1 "	first SDCCH/8 type channel
C_S0	SN	'000'B	time slot 0
C_S3	SN	'011'B	time slot 3
C_S7	SN	'111'B	time slot 7
C_RETRV	INTEGER	1	
C_U10	CCSTATE	10	CC state U10
C_CMServiceTypeE	CMSVTYPE	'0010'B	CM Service Type for emergency call.
C_Telephony	IA5String	"C_Telephony"	telephony service (TS11)
C_EmgCall	IA5String	"C_EmgCall"	emergency call service (TS12)
C_AltSpchFax	IA5String	"C_AltSpchFax"	alternate speech and G3 fax service (TS61)
C_AutoFax	IA5String	"C_AutoFax"	automatic G3 fax service (TS62)
C_Async300	IA5String	"C_Async300"	data circuit duplex async. 300 bit/s service (BS21)
C_Async1200	IA5String	"C_Async1200"	data circuit duplex async. 1200 bit/s service (BS22)
C_Async120075	IA5String	"C_Async120075"	data circuit duplex async. 1200/75 bit/s service (BS23)
C_Async2400	IA5String	"C_Async2400"	data circuit duplex async. 2400 bit/s service (BS24)
C_Async4800	IA5String	"C_Async4800"	data circuit duplex async. 4800 bit/s service (BS25)
C_Async9600	IA5String	"C_Async9600"	data circuit duplex async 9600 bit/s service (BS26)
C_Sync1200	IA5String	"C_Sync1200"	data circuit duplex sync. 1200 bit/s service (BS31)
C_Sync2400	IA5String	"C_Sync2400"	data circuit duplex sync. 2400 bit/s service (BS32)
C_Sync4800	IA5String	"C_Sync4800"	data circuit duplex sync. 4800 bit/s service (BS33)
C_Sync9600	IA5String	"C_Sync9600"	data circuit duplex sync 9600 bit/s service (BS34)
C_PAD300	IA5String	"C_PAD300"	PAD access 300 bit/s service (BS41)
C_PAD1200	IA5String	"C_PAD1200"	PAD access 1200 bit/s service (BS42)
C_PAD120075	IA5String	"C_PAD120075"	PAD access 1200/75 bit/s service (BS43)
C_PAD2400	IA5String	"C_PAD2400"	PAD access 2400 bit/s service (BS44)
C_PAD4800	IA5String	"C_PAD4800"	PAD access 4800 bit/s service (BS45)
C_PAD9600	IA5String	"C_PAD9600"	PAD access 9600 bit/s service (BS46)

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_Packet2400	IA5String	"C_Packet2400"	packt access 2400 bit/s service (BS51)
C_Packet4800	IA5String	"C_Packet4800"	packt access 4800 bit/s service (BS52)
C_Packet9600	IA5String	"C_Packet9600"	packt access 9600 bit/s service (BS53)
C_AltSpchData	IA5String	"C_AltSpchData"	alternate speech/data service (BS61)
C_SpchData	IA5String	"C_SpchData"	speech followed data service (BS81)
C_one	INTEGER	1	one frequency, no hopping
C_Immass	BITSTRING	'000'B	activation for immediate assignment
C_Ass	BITSTRING	'001'B	activation for assignment
C_Asynho	BITSTRING	'010'B	activation for non synchronous handover
C_LocEndRel	RelMode	'01'O	local end release
C_MaxPwrLvID	INTEGER	15	Max power level for MS DCS
C_MaxPwrLvIG	INTEGER	19	Max power level for MS GSM
C_rc_LAnotallowed	REJCAU	'0C'O	reject cause: LocationArea is not allowed
C_rc_networkfailure	REJCAU	'11'O	reject cause: network failure
C_rc_plmn_not	REJCAU	'0B'O	reject cause: PLMN not allowed
C_Restablishment	B_1	'0'B	Restablishment allowed
C_noRestablishment	B_1	'1'B	No restablishment allowed
C_SlotNU	SN	'111'B	Slot Number not used
C_CellReselectHys12	INTEGER	6	Cell Reselection Hysteresis value 12db
C_RI_alternate	B_8	'11010001'B	Bcap repeat indicator for alternate (circular selection)
C_RI_follow	B_8	'11010011'B	Bcap repeat indicator for successive (sequential selection)
C_SIMneedRmv	BOOLEAN	TRUE	Removal of SIM is needed in a test case (SIM is not always inserted.)
C_Yes	BOOLEAN	TRUE	
C_No	BOOLEAN	FALSE	
C_Start_Tmsi	INTEGER	1	Test case body starts without TMSI
C_Start_Tmsi	INTEGER	2	Test case body starts with Tmsi_01
C_Start_TmsiOff	INTEGER	5	Test case body starts with Tmsi_01. MS has been deactivated.
C_Start_Rej	INTEGER	3	Test case body starts with LAI deleted. MS has been deactivated.

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_Start_PLMNnot	INTEGER	4	Test case body starts with PLMN not allowed
C_Test_fh	INTEGER	1	Test case with possibly frequency hopping
C_Test_nfh	INTEGER	2	Test case with no frequency hopping
C_Test_egsm	INTEGER	3	Test case for egsm
C_Test_cbms	INTEGER	4	Test case for CBMS
C_normal_updating	B_2	'00'B	normal location updating
C_norm_period_attach	B_2	'??'B	imsi attach or periodic location updating or normal location updating
C_normal_paging	B_2	'00'B	normal page mode
C_extended_paging	B_2	'01'B	extended paging
C_reorg_paging	B_2	'10'B	paging reorganisation
C_non_synchronised	B_2	'00'B	non-synchronised
C_synchronised	B_2	'01'B	synchronised
C_not_report_otd	B_1	'0'B	not report observed time difference
C_report_otd	B_1	'1'B	report observed time difference
C_T_AssCmd	INTEGER	900	600ms + 300ms(tolerance)
C_T_Wait1stChReq	INTEGER	35000	max time for full BCCH data decoding
C_T_Wait	INTEGER	5000	5s. T3126max
C_T_Wait1	INTEGER	1000	1s
C_release_time	INTEGER	11	release timer value
C_Full	IA5String	"F"	full rate channel
C_Half	IA5String	"H"	half rate channel
C_nirr_dontcare	B_1	'?'B	NIRR no meaning or requested
C_Rchr_dontcare	B_2	'??'B	radio channel requirement not checked
C_Rchr_Full	B_2	'01'B	radio channel requirement : full rate
C_Rchr_DualForDualH	B_2	'1?'B	radio channel requirement : dual rate support/half rate preferred or dual rate support/full rate preferred
C_StartingTimeHO	INTEGER	238	Starting time 238 (1.1s), in TC_26_6_5_1, TC_26_6_5_4_2
C_3100Hz	B_3	'010'B	Info. Transfer Cap. 3.1 kHz
C_UDI	B_3	'001'B	Info. Transfer Cap. UDI
C_FAX3	B_3	'011'B	Info. Transfer Cap. FAX3
C_SDUIntegrity	B_2	'00'B	Structure SDU integrity
C_Unstructured	B_2	'11'B	Structure Unstructured
C_struc_dontchk	B_2	'??'B	Structure not checked
C_nirr_nomeaning	B_1	'0'B	NIRR no meaning
C_no_rate_adaption	B_2	'00'B	Rate adaption no
C_rate_adaption_V110	B_2	'01'B	Rate adaption V110

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_rate_adaption_X31	B_2	'10'B	Rate adaption X31 flag
C_sacp_NA	B_3	'001'B	Signaling access NA (sec.11.8.1.5.1)
C_I440_450	B_3	'001'B	Signaling access I440/450
C_X21	B_3	'010'B	Signaling access X21
C_X28_unui	B_3	'100'B	Signaling access X28 U NUI
C_X28_nond	B_3	'101'B	Signaling access X28 non dedicated
C_X32	B_3	'110'B	Signaling access X32
C_Synchronous	B_1	'0'B	Synchronous
C_Asynchronous	B_1	'1'B	Asynchronous
C_stopbit_NA	B_1	'0'B	Number of Stop bits NA
C_stopbit_dontcare	B_1	'?'B	Number of Stop bits not care
C_databit_NA	B_1	'1'B	Number of Data bits not care
C_databit_dontcare	B_1	'?'B	Number of Data bits NA
C_300bs	B_4	'0001'B	User rate 300 bs
C_1200bs	B_4	'0010'B	User rate 1200 bs
C_120075bs	B_4	'0111'B	User rate 1200/75 bs
C_2400bs	B_4	'0011'B	User rate 2400 bs
C_4800bs	B_4	'0100'B	User rate 4800 bs
C_9600bs	B_4	'0101'B	User rate 9600 bs
C_parity_NA	B_3	'011'B	Parity NA
C_parity_dontcare	B_3	'???'B	Parity not care
C_ir_8kbs	B_2	'10'B	Intermediate rate 8 Kbs
C_ir_16kbs	B_2	'11'B	Intermediate rate 16 Kbs
C_ir_8or16kbs	B_2	'1?'B	Intermediate rate 8 or 16 Kbs
C_transparent	B_2	'00'B	Connection element T
C_nottransparent	B_2	'01'B	Connection element NT
C_BothT	B_2	'10'B	Connection element both T
C_BothNT	B_2	'11'B	Connection element both NT
C_modemt_none	B_5	'00000'B	no modem
C_modemt_V21	B_5	'00001'B	modem V21
C_modemt_V22	B_5	'00010'B	modem V22
C_modemt_V22bis	B_5	'00011'B	modem V22bis
C_modemt_V23	B_5	'00100'B	modem V23
C_modemt_V32	B_5	'00110'B	modem V32
C_ISO6429	B_5	'01000'B	Inband flow control
C_COPnoFLCT	B_5	'01100'B	No flow control
C_X25_flct	B_5	'00110'B	X25 flow control
C_Outband	FLWCNTL	0	outband flow control
C_Inband	FLWCNTL	1	outband flow control
C_Nocontrol	FLWCNTL	2	outband flow control
C_uil2p_dontcare	B_5	'?????'B	not checked
maxAddressLength	Asn1Integer	20	

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
maxISDN_AddressLength	Asn1Integer	9	
maxISDN_SubaddressLength	Asn1Integer	21	
maxNumOfBasicServiceGroups	Asn1Integer	13	
maxNumOfCUG	Asn1Integer	10	
maxNumberOfSegmentsPerDataInterval	Asn1Integer	8191	
maxSignalInfoLength	Asn1Integer	200	
maxUSSD_StringLength	Asn1Integer	160	
max10TimesIncrement	Asn1Integer	8191	
max10TimesIncrementPerDataInterval	Asn1Integer	8191	
max10TimesInitialTime	Asn1Integer	8191	
max100TimesScalingFactor	Asn1Integer	8191	
max10TimesTimeInterval	Asn1Integer	8191	
max10TimesUnitsPerTime	Asn1Integer	8191	
C_FCCH_A	LOGICCH	"C_FCCH_A"	frequency correction channel of cell A(1)
C_FCCH_B	LOGICCH	"C_FCCH_B"	frequency correction channel of cell B(2)
C_FCCH_C	LOGICCH	"C_FCCH_C"	frequency correction channel of cell C(3)
C_FCCH_D	LOGICCH	"C_FCCH_D"	frequency correction channel of cell D(4)
C_FCCH_E	LOGICCH	"C_FCCH_E"	frequency correction channel of cell E(5)
C_FCCH_F	LOGICCH	"C_FCCH_F"	frequency correction channel of cell F(6)
C_FCCH_G	LOGICCH	"C_FCCH_G"	frequency correction channel of cell G(7)
C_FCCH_H	LOGICCH	"C_FCCH_H"	frequency correction channel of cell H(8)
C_SCH_A	LOGICCH	"C_SCH_A"	sync channel of cell A(1)
C_SCH_B	LOGICCH	"C_SCH_B"	sync channel of cell B(2)
C_SCH_C	LOGICCH	"C_SCH_C"	sync channel of cell C(3)
C_SCH_D	LOGICCH	"C_SCH_D"	sync channel of cell D(4)
C_SCH_E	LOGICCH	"C_SCH_E"	sync channel of cell E(5)
C_SCH_F	LOGICCH	"C_SCH_F"	sync channel of cell F(6)
C_SCH_G	LOGICCH	"C_SCH_G"	sync channel of cell G(7)
C_SCH_H	LOGICCH	"C_SCH_H"	sync channel of cell H(8)
C_BCCH_A_1	LOGICCH	"C_BCCH_A_1"	1st broadcast channel of cell A
C_BCCH_A_2	LOGICCH	"C_BCCH_A_2"	2nd broadcast channel of cell A
C_BCCH_A_3	LOGICCH	"C_BCCH_A_3"	3rd broadcast channel of cell A
C_BCCH_A_4	LOGICCH	"C_BCCH_A_4"	4th broadcast channel of cell A
C_BCCH_B_1	LOGICCH	"C_BCCH_B_1"	1st broadcast channel of cell B

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_BCCH_C_1	LOGICCH	"C_BCCH_C_1"	1st broadcast channel of cell C
C_BCCH_D_1	LOGICCH	"C_BCCH_D_1"	1st broadcast channel of cell D
C_BCCH_E_1	LOGICCH	"C_BCCH_E_1"	1st broadcast channel of cell E
C_BCCH_F_1	LOGICCH	"C_BCCH_F_1"	1st broadcast channel of cell F
C_BCCH_G_1	LOGICCH	"C_BCCH_G_1"	1st broadcast channel of cell G
C_BCCH_H_1	LOGICCH	"C_BCCH_H_1"	1st broadcast channel of cell H
C_CBCH_A	LOGICCH	"C_CBCH_A"	Cell broadcast channel in cell A
C_AGCH_A_1	LOGICCH	"C_AGCH_A_1"	1st down link CCCH (AGCH) of cell A
C_AGCH_A_2	LOGICCH	"C_AGCH_A_2"	2nd down link CCCH (AGCH) of cell A
C_AGCH_A_3	LOGICCH	"C_AGCH_A_3"	3rd down link CCCH (AGCH) of cell A
C_AGCH_A_4	LOGICCH	"C_AGCH_A_4"	4th down link CCCH (AGCH) of cell A
C_AGCH_B_1	LOGICCH	"C_AGCH_B_1"	1st down link CCCH (AGCH) of cell B
C_AGCH_B_2	LOGICCH	"C_AGCH_B_2"	2nd down link CCCH (AGCH) of cell B
C_AGCH_B_3	LOGICCH	"C_AGCH_B_3"	3rd down link CCCH (AGCH) of cell B
C_AGCH_B_4	LOGICCH	"C_AGCH_B_4"	4th down link CCCH (AGCH) of cell B
C_AGCH_C_1	LOGICCH	"C_AGCH_C_1"	1st down link CCCH (AGCH) of cell C
C_AGCH_C_2	LOGICCH	"C_AGCH_C_2"	2nd down link CCCH (AGCH) of cell C
C_AGCH_C_3	LOGICCH	"C_AGCH_C_3"	3rd down link CCCH (AGCH) of cell C
C_AGCH_C_4	LOGICCH	"C_AGCH_C_4"	4th down link CCCH (AGCH) of cell C
C_AGCH_D_1	LOGICCH	"C_AGCH_D_1"	1st down link CCCH (AGCH) of cell D
C_AGCH_E_1	LOGICCH	"C_AGCH_E_1"	1st down link CCCH (AGCH) of cell E
C_AGCH_F_1	LOGICCH	"C_AGCH_F_1"	1st down link CCCH (AGCH) of cell F
C_AGCH_G_1	LOGICCH	"C_AGCH_G_1"	1st down link CCCH (AGCH) of cell G
C_AGCH_H_1	LOGICCH	"C_AGCH_H_1"	1st down link CCCH (AGCH) of cell H
C_PCH_A_1	LOGICCH	"C_PCH_A_1"	1st down link CCCH (PCH) of cell A
C_PCH_A_2	LOGICCH	"C_PCH_A_2"	2nd down link CCCH (PCH) of cell A

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_PCH_A_3	LOGICCH	"C_PCH_A_3"	3rd down link CCCH (PCH) of cell A
C_PCH_A_4	LOGICCH	"C_PCH_A_4"	4th down link CCCH (PCH) of cell A
C_PCH_B_1	LOGICCH	"C_PCH_B_1"	1st down link CCCH (PCH) of cell B
C_PCH_B_2	LOGICCH	"C_PCH_B_2"	2nd down link CCCH (PCH) of cell B
C_PCH_B_3	LOGICCH	"C_PCH_B_3"	3rd down link CCCH (PCH) of cell B
C_PCH_B_4	LOGICCH	"C_PCH_B_4"	4th down link CCCH (PCH) of cell B
C_PCH_C_1	LOGICCH	"C_PCH_C_1"	1st down link CCCH (PCH) of cell C
C_PCH_C_2	LOGICCH	"C_PCH_C_2"	2nd down link CCCH (PCH) of cell C
C_PCH_C_3	LOGICCH	"C_PCH_C_3"	3rd down link CCCH (PCH) of cell C
C_PCH_C_4	LOGICCH	"C_PCH_C_4"	4th down link CCCH (PCH) of cell C
C_PCH_D_1	LOGICCH	"C_PCH_D_1"	1st down link CCCH (PCH and AGCH) of cell D
C_PCH_E_1	LOGICCH	"C_PCH_E_1"	1st down link CCCH (PCH) of cell E
C_PCH_F_1	LOGICCH	"C_PCH_F_1"	1st down link CCCH (PCH) of cell F
C_PCH_G_1	LOGICCH	"C_PCH_G_1"	1st down link CCCH (PCH) of cell G
C_PCH_H_1	LOGICCH	"C_PCH_H_1"	1st down link CCCH (PCH) of cell H
C_RACH_A_1	LOGICCH	"C_RACH_A_1"	1st uplink CCCH (RACH) of cell A
C_RACH_A_2	LOGICCH	"C_RACH_A_2"	2nd uplink CCCH (RACH) of cell A
C_RACH_A_3	LOGICCH	"C_RACH_A_3"	3rd uplink CCCH (RACH) of cell A
C_RACH_A_4	LOGICCH	"C_RACH_A_4"	4th uplink CCCH (RACH) of cell A
C_RACH_B_1	LOGICCH	"C_RACH_B_1"	1st uplink CCCH (RACH) of cell B
C_RACH_B_2	LOGICCH	"C_RACH_B_2"	2nd uplink CCCH (RACH) of cell B
C_RACH_B_3	LOGICCH	"C_RACH_B_3"	3rd uplink CCCH (RACH) of cell B
C_RACH_B_4	LOGICCH	"C_RACH_B_4"	4th uplink CCCH (RACH) of cell B
C_RACH_C_1	LOGICCH	"C_RACH_C_1"	1st uplink CCCH (RACH) of cell C
C_RACH_C_2	LOGICCH	"C_RACH_C_2"	2nd uplink CCCH (RACH) of cell C
C_RACH_C_3	LOGICCH	"C_RACH_C_3"	3rd uplink CCCH (RACH) of cell C

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_RACH_C_4	LOGICCH	"C_RACH_C_4"	4th uplink CCCH (RACH) of cell C
C_RACH_D_1	LOGICCH	"C_RACH_D_1"	1st uplink CCCH (RACH) of cell D
C_RACH_E_1	LOGICCH	"C_RACH_E_1"	1st uplink CCCH (RACH) of cell E
C_RACH_F_1	LOGICCH	"C_RACH_F_1"	1st uplink CCCH (RACH) of cell F
C_RACH_G_1	LOGICCH	"C_RACH_G_1"	1st uplink CCCH (RACH) of cell G
C_RACH_H_1	LOGICCH	"C_RACH_H_1"	1st uplink CCCH (RACH) of cell H
C_FACCHF_A_1	LOGICCH	"C_FACCHF_A_1"	FACCH associated with 1st TCH/F of cell A
C_FACCHF_A_2	LOGICCH	"C_FACCHF_A_2"	FACCH associated with 2nd TCH/F of cell A
C_FACCHF_B_1	LOGICCH	"C_FACCHF_B_1"	FACCH associated with 1st TCH/F of cell B
C_FACCHH_A_1	LOGICCH	"C_FACCHH_A_1"	FACCH associated with 1st TCH/H of cell A
C_FACCHH0_A_1	LOGICCH	"C_FACCHH0_A_1"	FACCH associated with 1st TCH/H0 of cell A
C_FACCHH1_A_1	LOGICCH	"C_FACCHH1_A_1"	FACCH associated with 1st TCH/H1 of cell A
C_SACCHF_A_1	LOGICCH	"C_SACCHF_A_1"	SACCH associated with 1st TCH/F of cell A
C_SACCHF_A_2	LOGICCH	"C_SACCHF_A_2"	SACCH associated with 2nd TCH/F of cell A
C_SACCHF_B_1	LOGICCH	"C_SACCHF_B_1"	SACCH associated with 1st TCH/F of cell B
C_SACCHH_A_1	LOGICCH	"C_SACCHH_A_1"	SACCH associated with 1st TCH/H of cell A
C_SACCHH0_A_1	LOGICCH	"C_SACCHH0_A_1"	SACCH associated with 1st TCH/H_0 of cell A
C_SACCHH1_A_1	LOGICCH	"C_SACCHH1_A_1"	SACCH associated with 1st TCH/H_1 of cell A
C_SACCHC4_A	LOGICCH	"C_SACCHC4_A"	SACCHC4 channel of cell A
C_SACCHC4_B	LOGICCH	"C_SACCHC4_B"	SACCHC4 channel of cell B
C_SACCHC4_C	LOGICCH	"C_SACCHC4_C"	SACCHC4 channel of cell C
C_SACCHC4_D	LOGICCH	"C_SACCHC4_D"	SACCHC4 channel of cell D
C_SACCHC4_E	LOGICCH	"C_SACCHC4_E"	SACCHC4 channel of cell E
C_SACCHC4_F	LOGICCH	"C_SACCHC4_F"	SACCHC4 channel of cell F
C_SACCHC4_G	LOGICCH	"C_SACCHC4_G"	SACCHC4 channel of cell G
C_SACCHC4_H	LOGICCH	"C_SACCHC4_H"	SACCHC4 channel of cell H
C_SACCHC40_A	LOGICCH	"C_SACCHC40_A"	SACCH/C4(0) associated with SDCCH/4(0) of cell A
C_SACCHC41_A	LOGICCH	"C_SACCHC41_A"	SACCH/C4(1) associated with SDCCH/4(1) of cell A
C_SACCHC42_A	LOGICCH	"C_SACCHC42_A"	SACCH/C4(2) associated with SDCCH/4(2) of cell A
C_SACCHC43_A	LOGICCH	"C_SACCHC43_A"	SACCH/C4(3) associated with SDCCH/4(3) of cell A

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_SACCHC40_B	LOGICCH	"C_SACCHC40_B"	SACCH/C4(0) associated with SDCCH/4(0) of cell B
C_SACCHC41_B	LOGICCH	"C_SACCHC41_B"	SACCH/C4(1) associated with SDCCH/4(1) of cell B
C_SACCHC42_B	LOGICCH	"C_SACCHC42_B"	SACCH/C4(2) associated with SDCCH/4(2) of cell B
C_SACCHC43_B	LOGICCH	"C_SACCHC43_B"	SACCH/C4(3) associated with SDCCH/4(3) of cell B
C_SACCHC40_C	LOGICCH	"C_SACCHC40_C"	SACCH/C4(0) associated with SDCCH/4(0) of cell C
C_SACCHC41_C	LOGICCH	"C_SACCHC41_C"	SACCH/C4(1) associated with SDCCH/4(1) of cell C
C_SACCHC42_C	LOGICCH	"C_SACCHC42_C"	SACCH/C4(2) associated with SDCCH/4(2) of cell C
C_SACCHC43_C	LOGICCH	"C_SACCHC43_C"	SACCH/C4(3) associated with SDCCH/4(3) of cell C
C_SACCHC40_D	LOGICCH	"C_SACCHC40_D"	SACCH/C4(0) associated with SDCCH/4(0) of cell D
C_SACCHC41_D	LOGICCH	"C_SACCHC41_D"	SACCH/C4(1) associated with SDCCH/4(1) of cell D
C_SACCHC42_D	LOGICCH	"C_SACCHC42_D"	SACCH/C4(2) associated with SDCCH/4(2) of cell D
C_SACCHC43_D	LOGICCH	"C_SACCHC43_D"	SACCH/C4(3) associated with SDCCH/4(3) of cell D
C_SACCHC40_E	LOGICCH	"C_SACCHC40_E"	SACCH/C4(0) associated with SDCCH/4(0) of cell E
C_SACCHC41_E	LOGICCH	"C_SACCHC41_E"	SACCH/C4(1) associated with SDCCH/4(1) of cell E
C_SACCHC42_E	LOGICCH	"C_SACCHC42_E"	SACCH/C4(2) associated with SDCCH/4(2) of cell E
C_SACCHC43_E	LOGICCH	"C_SACCHC43_E"	SACCH/C4(3) associated with SDCCH/4(3) of cell E
C_SACCHC40_F	LOGICCH	"C_SACCHC40_F"	SACCH/C4(0) associated with SDCCH/4(0) of cell F
C_SACCHC41_F	LOGICCH	"C_SACCHC41_F"	SACCH/C4(1) associated with SDCCH/4(1) of cell F
C_SACCHC42_F	LOGICCH	"C_SACCHC42_F"	SACCH/C4(2) associated with SDCCH/4(2) of cell F
C_SACCHC43_F	LOGICCH	"C_SACCHC43_F"	SACCH/C4(3) associated with SDCCH/4(3) of cell F
C_SACCHC40_G	LOGICCH	"C_SACCHC40_G"	SACCH/C4(0) associated with SDCCH/4(0) of cell G
C_SACCHC41_G	LOGICCH	"C_SACCHC41_G"	SACCH/C4(1) associated with SDCCH/4(1) of cell G
C_SACCHC42_G	LOGICCH	"C_SACCHC42_G"	SACCH/C4(2) associated with SDCCH/4(2) of cell G
C_SACCHC43_G	LOGICCH	"C_SACCHC43_G"	SACCH/C4(3) associated with SDCCH/4(3) of cell G
C_SACCHC40_H	LOGICCH	"C_SACCHC40_C"	SACCH/C4(0) associated with SDCCH/4(0) of cell H
C_SACCHC41_H	LOGICCH	"C_SACCHC41_C"	SACCH/C4(1) associated with SDCCH/4(1) of cell H

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_SACCHC42_H	LOGICCH	"C_SACCHC42_C"	SACCH/C4(2) associated with SDCCH/4(2) of cell H
C_SACCHC43_H	LOGICCH	"C_SACCHC43_C"	SACCH/C4(3) associated with SDCCH/4(3) of cell H
C_SACCHC8_A_1	LOGICCH	"C_SACCHC8_A_1"	1st SACCH/8 channel of cell A
C_SACCHC80_A_1	LOGICCH	"C_SACCHC80_A_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell A
C_SACCHC81_A_1	LOGICCH	"C_SACCHC81_A_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell A
C_SACCHC82_A_1	LOGICCH	"C_SACCHC82_A_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell A
C_SACCHC83_A_1	LOGICCH	"C_SACCHC83_A_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell A
C_SACCHC84_A_1	LOGICCH	"C_SACCHC84_A_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell A
C_SACCHC85_A_1	LOGICCH	"C_SACCHC85_A_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell A
C_SACCHC86_A_1	LOGICCH	"C_SACCHC86_A_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell A
C_SACCHC87_A_1	LOGICCH	"C_SACCHC87_A_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell A
C_SDCCH4_A	LOGICCH	"C_SDCCH4_A"	SDCCH/4 channel of cell A
C_SDCCH4_B	LOGICCH	"C_SDCCH4_B"	SDCCH/4 channel of cell B
C_SDCCH4_C	LOGICCH	"C_SDCCH4_C"	SDCCH/4 channel of cell C
C_SDCCH4_D	LOGICCH	"C_SDCCH4_D"	SDCCH/4 channel of cell D
C_SDCCH4_E	LOGICCH	"C_SDCCH4_E"	SDCCH/4 channel of cell E
C_SDCCH4_F	LOGICCH	"C_SDCCH4_F"	SDCCH/4 channel of cell F
C_SDCCH4_G	LOGICCH	"C_SDCCH4_G"	SDCCH/4 channel of cell G
C_SDCCH4_H	LOGICCH	"C_SDCCH4_H"	SDCCH/4 channel of cell H
C_SDCCH40_A	LOGICCH	"C_SDCCH40_A"	SDCCH/4(0) of cell A
C_SDCCH41_A	LOGICCH	"C_SDCCH41_A"	SDCCH/4(1) of cell A
C_SDCCH42_A	LOGICCH	"C_SDCCH42_A"	SDCCH/4(2) of cell A
C_SDCCH43_A	LOGICCH	"C_SDCCH43_A"	SDCCH/4(3) of cell A
C_SDCCH40_B	LOGICCH	"C_SDCCH40_B"	SDCCH/4(0) of cell B
C_SDCCH41_B	LOGICCH	"C_SDCCH41_B"	SDCCH/4(1) of cell B
C_SDCCH42_B	LOGICCH	"C_SDCCH42_B"	SDCCH/4(2) of cell B
C_SDCCH43_B	LOGICCH	"C_SDCCH43_B"	SDCCH/4(3) of cell B
C_SDCCH40_C	LOGICCH	"C_SDCCH40_C"	SDCCH/4(0) of cell C
C_SDCCH41_C	LOGICCH	"C_SDCCH41_C"	SDCCH/4(1) of cell C
C_SDCCH42_C	LOGICCH	"C_SDCCH42_C"	SDCCH/4(2) of cell C
C_SDCCH43_C	LOGICCH	"C_SDCCH43_C"	SDCCH/4(3) of cell C
C_SDCCH40_D	LOGICCH	"C_SDCCH40_D"	SDCCH/4(0) of cell D

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_SDCCH41_D	LOGICCH	"C_SDCCH41_D"	SDCCH/4(1) of cell D
C_SDCCH42_D	LOGICCH	"C_SDCCH42_D"	SDCCH/4(2) of cell D
C_SDCCH43_D	LOGICCH	"C_SDCCH43_D"	SDCCH/4(3) of cell D
C_SDCCH40_E	LOGICCH	"C_SDCCH40_E"	SDCCH/4(0) of cell E
C_SDCCH41_E	LOGICCH	"C_SDCCH41_E"	SDCCH/4(1) of cell E
C_SDCCH42_E	LOGICCH	"C_SDCCH42_E"	SDCCH/4(2) of cell E
C_SDCCH43_E	LOGICCH	"C_SDCCH43_E"	SDCCH/4(3) of cell E
C_SDCCH40_F	LOGICCH	"C_SDCCH40_F"	SDCCH/4(0) of cell F
C_SDCCH41_F	LOGICCH	"C_SDCCH41_F"	SDCCH/4(1) of cell F
C_SDCCH42_F	LOGICCH	"C_SDCCH42_F"	SDCCH/4(2) of cell F
C_SDCCH43_F	LOGICCH	"C_SDCCH43_F"	SDCCH/4(3) of cell F
C_SDCCH40_G	LOGICCH	"C_SDCCH40_G"	SDCCH/4(0) of cell G
C_SDCCH41_G	LOGICCH	"C_SDCCH41_G"	SDCCH/4(1) of cell G
C_SDCCH42_G	LOGICCH	"C_SDCCH42_G"	SDCCH/4(2) of cell G
C_SDCCH43_G	LOGICCH	"C_SDCCH43_G"	SDCCH/4(3) of cell G
C_SDCCH40_H	LOGICCH	"C_SDCCH40_H"	SDCCH/4(0) of cell H
C_SDCCH41_H	LOGICCH	"C_SDCCH41_H"	SDCCH/4(1) of cell H
C_SDCCH42_H	LOGICCH	"C_SDCCH42_H"	SDCCH/4(2) of cell H
C_SDCCH43_H	LOGICCH	"C_SDCCH43_H"	SDCCH/4(3) of cell H
C_SDCCH8_A_1	LOGICCH	"C_SDCCH8_A_1"	1st SDCCH/8 channel of cell A
C_SDCCH80_A_1	LOGICCH	"C_SDCCH80_A_1"	1st SDCCH/8(0) of cell A
C_SDCCH81_A_1	LOGICCH	"C_SDCCH81_A_1"	1st SDCCH/8(1) of cell A
C_SDCCH82_A_1	LOGICCH	"C_SDCCH82_A_1"	1st SDCCH/8(2) of cell A
C_SDCCH83_A_1	LOGICCH	"C_SDCCH83_A_1"	1st SDCCH/8(3) of cell A
C_SDCCH84_A_1	LOGICCH	"C_SDCCH84_A_1"	1st SDCCH/8(4) of cell A
C_SDCCH85_A_1	LOGICCH	"C_SDCCH85_A_1"	1st SDCCH/8(5) of cell A
C_SDCCH86_A_1	LOGICCH	"C_SDCCH86_A_1"	1st SDCCH/8(6) of cell A
C_SDCCH87_A_1	LOGICCH	"C_SDCCH87_A_1"	1st SDCCH/8(7) of cell A
C_NCH_A_0	LOGICCH	"C_NCH_A_0"	NCH block B0 for cell A
C_NCH_A_1	LOGICCH	"C_NCH_A_1"	NCH block B1 for cell A
C_NCH_A_2	LOGICCH	"C_NCH_A_2"	NCH block B2 for cell A
C_NCH_A_3	LOGICCH	"C_NCH_A_3"	NCH block B3 for cell A
C_NCH_A_4	LOGICCH	"C_NCH_A_4"	NCH block B4 for cell A
C_NCH_A_5	LOGICCH	"C_NCH_A_5"	NCH block B5 for cell A
C_NCH_A_6	LOGICCH	"C_NCH_A_6"	NCH block B6 for cell A
C_NCH_B_0	LOGICCH	"C_NCH_B_0"	NCH block B0 for cell B
C_NCH_B_1	LOGICCH	"C_NCH_B_1"	NCH block B1 for cell B
C_NCH_B_2	LOGICCH	"C_NCH_B_2"	NCH block B2 for cell B
C_NCH_B_3	LOGICCH	"C_NCH_B_3"	NCH block B3 for cell B
C_NCH_B_4	LOGICCH	"C_NCH_B_4"	NCH block B4 for cell B
C_NCH_B_5	LOGICCH	"C_NCH_B_5"	NCH block B5 for cell B
C_NCH_B_6	LOGICCH	"C_NCH_B_6"	NCH block B6 for cell B
C_NchFB_0	INTEGER	0	First block used for NCH 3
C_NchFB_1	INTEGER	1	First block used for NCH 1 (not combined only)

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_NchFB_3	INTEGER	3	First block used for NCH 3 (not combined only)
C_NchNB_1	INTEGER	1	Number of block for NCH 1
C_NchNB_2	INTEGER	2	Number of block for NCH 2
C_NchUsed_B0	INTEGER	0	Block B0 used for NCH
C_NchUsed_B2	INTEGER	2	Block B2 used for NCH
C_NchUsed_B3	INTEGER	3	Block B3 used for NCH
C_RegEMLPP	INTEGER	30	registration of eMLPP service with default priority
C_ResInterEMLPP	INTEGER	31	Result of Interrogation of eMLPP service with default priority
Detailed Comments :			

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_Char	IA5String	FALSE	to hold the IA5 char. corresponding to a DTMF tone
TCV_ti_v	TI_V		to hold the transaction id. value
TCV_UusData	OCTETSTRING		To hold the UUS1 data value to be sent by SS
TCV_UssdString	IA5String		String for USS Data
TCV_UssdString1	IA5String		String for USS Data
TCV_UssdString2	IA5String		String for USS Data
TCV_AsciTest	BOOLEAN		Set to TRUE when testing ASCII service.
TCV_VGCS_VBS_Type	B_1		Asci service Flag '0'B for VBS, '1'B for VGCS
TCV_AssCmd	ASS_CMD_PDU		to hold ASSIGNMENT COMMAND PDU
TCV_BcapMT1	BCAP		to hold BC for MT call
TCV_BcapMO1	BCAP		to hold BC for MO call
TCV_BcapMT2	BCAP		to hold BC for MT call
TCV_bs_ag_blks_res	INTEGER		
TCV_bs_cc_chans	INTEGER		
TCV_bs_pa_mfrms	INTEGER		
TCV_CallCfm	CALL_CO_PDU	0	to hold CALL CONFIRM PDU
TCV_CallDirection	INTEGER		store type of call (MT or MO)
TCV_Cau	CAU		to hold cause
TCV_CAgsm	CCHD		To compute Cell Channel Descriptor for gsm
TCV_CAdcs	CCHD		To compute Cell Channel Descriptor for dcs
TCV_CE	CE		
TCV_Ccchg	INTEGER		CCCH_GROUP
TCV_Ccd0A	CCD		a copy of control channel description in use for cell A
TCV_Ccd0B	CCD		a copy of control channel description in use for cell B
TCV_Ccd0C	CCD		a copy of control channel description in use for cell C
TCV_Ccd0D	CCD		a copy of control channel description in use for cell D
TCV_Ccd0E	CCD		a copy of control channel description in use for cell E
TCV_Ccd0F	CCD		a copy of control channel description in use for cell F
TCV_Ccd0G	CCD		a copy of control channel description in use for cell G
TCV_Ccd0H	CCD		a copy of control channel description in use for cell H
TCV_CCst	CST		to hold call status
TCV_crAsci	B_27		to hold the ASCII call reference when the call is initiated by MS.

Continued on next page

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_ch	LOGICCH	"dummy"	to hold logic channel
TCV_ch1	LOGICCH	"dummy"	to hold logic channel
TCV_sacch	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_B	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_C	LOGICCH	"dummy"	to hold logic channel
TCV_sacch8	LOGICCH	"dummy"	to hold logic channel
TCV_sacchTch	LOGICCH	"dummy"	to hold logic channel
TCV_sacchTch1	LOGICCH	"dummy"	to hold logic channel
TCV_chTch	LOGICCH	"dummy"	to hold logic channel
TCV_chTch1	LOGICCH	"dummy"	to hold logic channel
TCV_chTch2	LOGICCH	"dummy"	to hold logic channel
TCV_Nch	LOGICCH	"dummy"	to hold logic channel for NCH
TCV_agch	LOGICCH	"dummy"	downlink access grant channel
TCV_cellid	CellID		to hold the cell identifier
TCV_chd1	CHD		to hold channel description IE
TCV_cchd1	CCHD		to hold cell channel description IE
TCV_ChMod	CHMOD		to hold channel mode IE
TCV_ChModb	CHMOD		to hold channel mode IE for second mode in dual mode services
TCV_Tchtype	CH_TDMA	'00001'B	Traffic channel type and TDMA offset in channel description IE
TCV_chtype	CH_TDMA		to channel type and TDMA offset in channel description IE
TCV_cksn	BITSTRING		to hold the CKSN.
TCV_Cnt	INTEGER		general loop counter
TCV_Cnt1	INTEGER		general loop counter
TCV_Cnt2	INTEGER		general loop counter
TCV_Cntref	INTEGER		Reference for general loop counter
TCV_CphKey	BITSTRING		ciphering key
TCV_ChRate	IA5String	C_Full	to hold channel rate
TCV_counter_c	INTEGER		loop counter c
TCV_counter_k	INTEGER		loop counter k
TCV_Fk	INTEGER		to hold an interval between events
TCV_Fn	FN		to hold the frame number (T1' , T2, T3)
TCV_Fn1	FN		to hold the frame number (T1' , T2, T3)
TCV_FnAss	FN		to hold the frame number in AssCmd statement
TCV_FnBurst	FN		to hold the frame number of first burst of handover access

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_HoaccPara	HOACC_PARA	"dummy"	Variable for HO access parameters
TCV_Horf	HORF		Variable for HO reference in HO-Messages of HO cases.
TCV_HoCMD	HO_CMD_PDU		to hold handover PDU
TCV_iel	LENGTH		Length of IE
TCV_kcnt	INTEGER		loop counter
TCV_K	INTEGER		
TCV_L1Head0	L1HD		to hold L 1 header
TCV_L1Head	L1HD		to hold L 1 header
TCV_lac	OCTETSTRING		to hold the lac. 2 octets
TCV_M	INTEGER		counter
TCV_maio	MAIO		to hold MAIO
TCV_Max	BITSTRING		to hold Max-retrans bitstring
TCV_MsrRes	MSRR		to hold measurement results
TCV_Mt	BITSTRING		to hold message type
TCV_Mt1	BITSTRING		to hold message type
TCV_n	INTEGER		
TCV_Neci	BITSTRING		
TCV_Notif1	NT_NCH_PDU		To hold the notification to be sent on NCH
TCV_Notif_Facch1	NT_FACCH_PDU		To hold the notification to be sent on FACCH
TCV_Null	BOOLEAN		to collect useless result from some test suite operations
TCV_PgCh	LOGICCH		logical channel for paging
TCV_Pgg	PGG		paging group
TCV_Pwrlvl_ho	BITSTRING		power level for HO_CMD, used in HO cases.
TCV_RaCh	LOGICCH		logical channel f RACH
TCV_Rchr	B_2		to hold Radio channel requirement
TCV_Res	BOOLEAN		to hold the result of a test suite operation
TCV_Rqr	RQR		to hold the request reference
TCV_Rqr9	RQR		to hold the request reference differing from TCV_Rqr
TCV_Rr	BITSTRING		to hold the random request reference
TCV_Rr1	BITSTRING		to hold the random reference
TCV_Rr2	BITSTRING		to hold the random reference
TCV_Rr3	BITSTRING		to hold the random reference
TCV_Rr4	BITSTRING		to hold the random reference
TCV_Service	SERVICES		to hold basicservice selected

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_CallProc	CALL_PROC_PDU	FALSE	to hold CALL PROCEEDING PDU
TCV_Setup_mo	SETUP_MO_PDU		to hold the SETUP PDU (MO)
TCV_Setup_mo1	SETUP_MO_PDU		to hold the SETUP PDU (MO)
TCV_Setup_mt	SETUP_MT_PDU		to hold the SETUP PDU (MT)
TCV_Setup_mt1	SETUP_MT_PDU		to hold the 2nd SETUP PDU (MT)
TCV_2ndtest	BOOLEAN		2nd test required in TC_11_1_1
TCV_Esetup	ESETUP_PDU		to hold the emergency SETUP PDU
TCV_Esetup1	ESETUP_PDU		to hold the emergency SETUP PDU
TCV_Ecall	BOOLEAN		it is set to TRUE, if the service under test is emergency call
TCV_slot	SN		To hold the default slot used during the entire TC.
TCV_slt2	SN		To hold a second working slot number.
TCV_Sres	OCTETSTRING		to hold the SRES returned
TCV_sysinf5	SYSINFO5_PDU		to hold the SysInfo5 PDU
TCV_sysinfo5	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell A
TCV_sysinf5bis	SYSINFO5bis_PDU		to hold the SysInfo5bis PDU for cell A
TCV_sysinfo5_B	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell B
TCV_sysinfo5_C	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell c
TCV_sysinf6	SYSINFO6_PDU		to hold the SysInfo6 PDU
TCV_sysinfo6	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell A
TCV_sysinfo6_B	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell B
TCV_sysinfo6_C	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell C
TCV_sysinfo10	SYSINFO10_PDU		to hold the SysInfo10 PDU for cell A
TCV_T	INTEGER		to hold Tx-integer chosen randomly
TCV_chdescr_arfcn	INTEGER		ARFCN carrier of actual cell
TCV_tch_arfcn	INTEGER		ARFCN carrier for traffic channel
TCV_arfcn_asci1	INTEGER		ARFCN carrier for traffic channel for group call
TCV_arfcn_asci2	INTEGER		ARFCN carrier for traffic channel for group call

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_asscmd_ts	BITSTRING		Time slot for channel description in assignment cmd.
TCV_ts	BITSTRING		Time slot for channel description in handover cmd.
TCV_ia_ts	BITSTRING		Time slot for channel description in immediate assignment
TCV_tsc	TSC		To hold the default training sequence used during the entire TC.
TCV_Time	INTEGER		to hold the measured value of T310 or T305 or T308
TCV_Time1	INTEGER		to hold the measured value
TCV_Time2	INTEGER		to hold the measured value
TCV_Time3	INTEGER		to hold the measured value
TCV_TI	TI		to hold the transaction ID for MO calls in sending evets
TCV_TI0	TI		to hold the transaction ID for MO calls in receiving evets
TCV_TI1	TI		to hold the transaction ID
TCV_TI2	TI		to hold the transaction ID
TCV_TI3	TI		to hold the transaction ID
TCV_tmp	INTEGER		temporary integer variable
TCV_Tx	BITSTRING		to hold Tx bitstring
TCV_S	INTEGER		to hold the S parameter
TCV_Upd	BOOLEAN		to hold the information whether the MS is updated or not,.
TCV_Strt	STRT		to hold starting time
TCV_SMTypem	INTEGER		Replace short message type
TCV_SMTypen	INTEGER		Replace short message type
TCV_freq	FRQPARA		to hold Freq type constraints
TCV_srv	SERVICES		to hold MT service
TCV_ur	B_4		to hold user rate
TCV_itc	B_3		to hold information transfer capability
TCV_sacp	B_3		to hold service access protocol
TCV_ce	B_2		to hold connection element
TCV_sa	B_1		to hold synchronous/asynchronous
TCV_ir	B_2		to hold intermediate rate
TCV_uil1p	B_2		to hold user information layer 1 protocol
TCV_modemt	B_5		to hold modem type
TCV_MODEM	MODEMTYPE		

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_ur2	B_4		to hold user rate for second configuration
TCV_its2	B_3		to hold information transfer capability for second configuration
TCV_sacp2	B_3		to hold service access protocol for second configuration
TCV_sa2	B_1		to hold synchronous/asynchronous for second configuration
TCV_supported	BOOLEAN	FALSE	used for indicating a selected service is declared supported or not
TCV_SpecialCase	BOOLEAN	FALSE	used for indicating whether a test case tests non-supported service
TCV_ce1	B_2		to hold connection element
TCV_ce3	B_2		to hold connection element
TCV_Nch_Pos	B_5		To hold the NCH position value to be used in SYSINFO 1 Rest Octets
TCV_Comp	Components		to hold SS Components
TCV_InvkId	INTEGER		to hold SS transaction ID
Detailed Comments :			

PCO Type Declarations		
PCO Type	Role	Comments
SAP0_3	LT	
Detailed Comments :		

PCO Declarations			
PCO Name	PCO Type	Role	Comments
L	SAP0_3	LT	
Detailed Comments :			

Timer Declarations			
Timer Name	Duration	Unit	Comments
T_dly	5000 300 C_release_time	ms	general purpose delay timer
T_dly1		ms	general purpose delay timer
T_dlyAss		ms	AssCmd timer, 1)
T_guard		s	guard timer
T_release		s	release timer
Detailed Comments :			

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

ASP Type Definition		
ASP Name : DL_DatRqHoldAck (DL_DATA_REQUEST_HOLD_ACKNOWLEDGE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC HOLD ACKNOWLEDGE message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HOLD_ACK_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInStartDtmf (DL_DATA_INDICATION_START_DTMF) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC START_DTMF message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	START_DTMF_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqStartDtmfAck (DL_DATA_REQUEST_START_DTMF_ACKNOWLEDGE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC START DTMF ACKNOWLEDGE message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	START_DTMF_ACK_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInStopDtmf (DL_DATA_INDICATION_STOP_DTMF) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC STOP_DTMF message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	STOP_DTMF_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqStopDtmfAck (DL_DATA_REQUEST_STOP_DTMF_ACKNOWLEDGE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC STOP DTMF ACKNOWLEDGE message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	STOP_DTMF_ACK_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstIn (DL_ESTABLISH_INDICATION) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation (L2 -> L3). The normal establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	Norm
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInCmsRq (DL_ESTABLISH_INDICATION_CM_SERVICE_REQUEST) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM CM SERVICE REQUEST message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	CMS_RQ_PDU	CM SERVICE REQUEST
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInLupRq (DL_ESTABLISH_INDICATION_LOCATION_UPDATING_REQUEST) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM LOCATION UPDATING REQUEST message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	LUP_RQ_PDU	LOCATION UPDATING REQUEST
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInImsidIn (DL_ESTABLISH_INDICATION_IMSI_DETACH_INDICATION) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM IMSI DETACH INDICATION message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	IMSID_IN_PDU	IMSI DETACH
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInImSt (DL_ESTABLISH_INDICATION_IMMEDIATE_SETUP_ASCII) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the IMMEDIATE SETUP ASCII message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	IMM_SETUP_ASCII_PDU	IMMEDIATE SETUP ASCII PDU
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInImSt2 (DL_ESTABLISH_INDICATION_IMMEDIATE_SETUP2_ASCII) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the IMMEDIATE SETUP ASCII message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	IMM_SETUP2_ASCII_PDU	IMMEDIATE SETUP ASCII PDU
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInNTRsp (DL_ESTABLISH_INDICATION_NOTIFICATION_RESPONSE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the NOTIFICATION RESPONSE message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	NT_RES_PDU	NOTIFICATION RESPONSE
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInPgRes (DL_ESTABLISH_INDICATION_PAGING_RESPONSE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the RR PAGING RESPONSE message (L2 -> L3). The contention resolution establishment procedure has been initiated.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	PG_RES_PDU	PAGING RESPONSE
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EstInTkInd (DL_ESTABLISH_INDICATION_TALKER_INDICATION) PCO Type : SAP0_3 Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the TALKER INDICATION message.		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
establish_mode	EstMode	CoRes
msg	TK_IND_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_RelIn (DL_RELEASE_INDICATION) PCO Type : SAP0_3 Comments : The ASP is used to indicate the termination of an established multiple frame operation or to report an unsuccessful establishment attempt (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
release_mode	RelMode	normal, local end release
outstanding_indicator	BOOLEAN	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The outstanding indicator indicates whether or not there are outstanding acknowledgements or unsolved DL_DATA_REQUEST primitives.		

ASP Type Definition		
ASP Name : DL_RacInChRq (DL_RANDOM_ACCESS_INDICATION_CHANNEL_REQUEST) PCO Type : SAP0_3 Comments : The ASP is used to indicate the arrival of an RR CHANNEL REQUEST message (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0,
logic_ch	LOGICCH	RACH
fn	FN	frame number when the access burst was received
msg	CH_RQ_PDU	REQUEST REFERENCE
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_RacInHoacc (DL_RADOM_ACCESS_INDICATION_HANDOVER_ACCESS) PCO Type : SAP0_3 Comments : The ASP is used to indicate the arrival of an RR HANDOVER ACCESS message (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0,
logic_ch	LOGICCH	DCCH
msg	HOACC_PDU	HANDOVER REFERENCE
fn	FN	frame number of the frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_RacInUpAcc (DL_RANDOM_ACCESS_INDICATION_UPLINK_ACCESS) PCO Type : SAP0_3 Comments : The ASP is used to indicate the arrival of an RR UPLINK ACCESS message (L2 → L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0,
logic_ch	LOGICCH	RACH
fn	FN	frame number when the access burst was received
msg	UP_ACC_PDU	REQUEST REFERENCE
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatIn PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the filler frame message using unacknowledged operation		
Parameter Name	Parameter Type	Comments
sapi	SAPID	
logic_ch	LOGICCH	
fn	FN	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UDatRqChRel (DL_UNIT_DATA_REQUEST_CHANNEL_RELEASE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR CHANNEL_RELEASE message using unacknowledged operation (L3 → L2). (used for UI format msg)		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CH_REL_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqlmmass (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	RACH (CCCH)
msg	IMMASS_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqlmmassx (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_EXTENDED) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT EXTENDED message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	AGCH (CCCH)
msg	IMMASSX_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqlmmassRej (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_REJECT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT REJECT message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	AGCH (CCCH)
msg	IMMASS_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatInMsrRpt (DL_DATA_INDICATION_MEASUREMENT_REPORT) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR MEASUREMENT REPORT message using unacknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	MSR_RPT_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The ASPs are continuously received during the testing.		

ASP Type Definition		
ASP Name : DL_UdatRqNtFACCH (DL_DATA_REQUEST_NOTIFICATION_FACCH) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR NOTIFICATION/NCH message using unacknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	FACCH
msg	NT_FACCH_PDU	
Detailed Comments : The ASPs are continuously received during the testing.		

ASP Type Definition		
ASP Name : DL_UdatRqNtNCH (DL_DATA_REQUEST_NOTIFICATION_NCH) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR NOTIFICATION/NCH message using unacknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGCH	NCH
msg	NT_NCH_PDU	
Detailed Comments : The ASPs are continuously received during the testing.		

ASP Type Definition		
ASP Name : DL_UdatRqNtNCH_Err (DL_DATA_REQUEST_NOTIFICATION_NCH) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the invalid RR NOTIFICATION/NCH message using unacknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg	SAPID LOGCH NT_NCH_PDU_ERR	0 NCH
Detailed Comments : The ASPs are continuously received during the testing.		

ASP Type Definition		
ASP Name : DL_UdatRqPg1Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE1) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR PAGING REQUEST TYPE 1 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi logic_ch pgg msg	SAPID LOGICCH PGG PG1_RQ_PDU	0 CCCH the paging group of an MS to be paged
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqPg2Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE2) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR PAGING REQUEST TYPE 2 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi logic_ch pgg msg	SAPID LOGICCH PGG PG2_RQ_PDU	0 CCCH the paging group of an MS to be paged
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqPg3Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE3) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR PAGING REQUEST TYPE 3 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	CCCH
pgg	PGG	the paging group of an MS to be paged
msg	PG3_RQ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSchinfo (DL_UNIT_DATA_REQUEST_SYNCHRONIZATION_CHANNEL_INFORMATION) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYNCHRONIZATION CHANNEL INFORMATION message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SCH (BCCH)
msg	SCHINFO_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo1 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE1) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 1 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO1_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo1_nh (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE1) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 3 message in case of non hopping		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO3_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo2 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 2 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO2_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo2bis (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2bis) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 2bis message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO2bis_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo3 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE3) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 3 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO3_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo4 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE4) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 4 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO4_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo5 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 5 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO5_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo5bis (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5bis) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 5bis message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO5bis_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo6 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE6) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 6 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO6_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqSysinfo10 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE10) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 10 message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO10_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UDatRqUpBs (DL_UNIT_DATA_REQUEST_UPLINK_BUSY) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR UPLINK BUSY message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	UP_BS_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqVgcsUpGrant (DL_UNIT_DATA_REQUEST_VGCS_UPLINK_GRANT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR VGCS UPLINK GRANT message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	
msg	VGCS_UP_GR_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqAlert (DL_DATA_REQUEST_ALERTING) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC ALERTING message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ALERT_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqAssCmd (DL_DATA_REQUEST_ASSIGNMENT_COMMAND) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR ASSIGNMENT COMMAND message using acknowledged operation (L3 → L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ASS_CMD_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInAssCom (DL_DATA_INDICATION_ASSIGNMENT_COMPLETE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR ASSIGNMENT COMPLETE message using acknowledged operation (L2 → L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ASS_COM_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The ASP is a result of the ASP DL_RESUME_REQUEST of the SUT sending the ASSIGNMENT COMPLETE message.		

ASP Type Definition		
ASP Name : DL_DatInAssfl (DL_DATA_INDICATION_ASSIGNMENT_FAILURE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR ASSIGNMENT FAILURE message using acknowledged operation (L2 → L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH (old channel)
msg	ASSFL_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The ASP is a result of the ASP DL_RECONNECT_REQUEST of the SUT sending the ASSIGNMEN FAILURE message.		

ASP Type Definition		
ASP Name : DL_DatRqChmmo (DL_DATA_REQUEST_CHANNEL_MODE_MODIFY) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR CHANNEL MODE MODIFY message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CHMMO_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInChmmoAck (DL_DATA_INDICATION_CHANNEL_MODE_MODIFY_ACKNOWLEDGE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR CHANNEL MODE MODIFY ACKNOWLEDGE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CHMMO_ACK_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqChRel (DL_DATA_REQUEST_CHANNEL_RELEASE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR CHANNEL_RELEASE message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CH_REL_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCphmCmd (DL_DATA_REQUEST_CIPHERING_MODE_COMMAND)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the RR CIPHERING_MODE_COMMAND message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CPHM_CMD_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UDatRqCphmCmd (DL_UDATA_REQUEST_CIPHERING_MODE_COMMAND)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the RR CIPHERING_MODE_COMMAND message using unacknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CPHM_CMD_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInCphmCom (DL_DATA_INDICATION_CIPHERING_MODE_COMPLETE)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR CIPHERING MODE COMPLETE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CPHM_COM_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqFrqre (DL_DATA_REQUEST_FREQUENCY_REDEFINITION) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR FREQUENCY REDEFINITION message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	FRQRE_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqGetStatus (DL_DATA_REQUEST_GET_STATUS_ASCI) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the GET STATUS message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	GST_ASCI_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqTerm (DL_DATA_REQUEST_TERMINATION_ASCI) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the TERMINATION message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	TERM_ASCI_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqTermRj (DL_DATA_REQUEST_TERMINATION_REJECT_ASCI)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the TERMINATION REJECTmessage using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	TERM_RJ_ASCI_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqHoCmd (DL_DATA_REQUEST_HANDOVER_COMMAND)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the RR HANDOVER COMMAND message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HO_CMD_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInHoCom (DL_DATA_INDICATION_HANDOVER_COMPLETE)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR HANDOVER COMPLETE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HO_COM_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The ASP is a result of the ASP DL_RESUME_REQUEST of the SUT sending the HANDOVER COMPLETE message.		

ASP Type Definition		
ASP Name : DL_DatInHofl (DL_DATA_INDICATION_HANDOVER_FAILURE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the RR HANDOVER FAILURE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg fn	SAPID LOGICCH HOFL_PDU FN	0 DCCH (old channel) frame number of the first frame carrying the message
Detailed Comments : The ASP is a result of the ASP DL_RECONNECT_REQUEST of the SUT sending the HANDOVER FAILURE message.		

ASP Type Definition		
ASP Name : DL_DatRqPhyinfo (DL_DATA_REQUEST_PHYSICAL_INFORMATION) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the RR PHYSICAL INFORMATION message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg	SAPID LOGICCH PHYINFO_PDU	0 DCCH
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqAuthRq (DL_DATA_REQUEST_AUTHENTICATION_REQUEST) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the MM AUTHENTICATION REQUEST message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg	SAPID LOGICCH AUTH_RQ_PDU	0 DCCH
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInAuthRes (DL_DATA_INDICATION_AUTHENTICATION_RESPONSE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the MM AUTHENTICATION RESPONSE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	AUTH_RES_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCmsAcp (DL_DATA_REQUEST_CM_SERVICE_ACCEPT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the MM CM SERVICE ACCEPT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CMS_ACP_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCmsRej (DL_DATA_REQUEST_CM_SERVICE_REJECT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the MM CM SERVICE REJECT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CMS_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqIdRq (DL_DATA_REQUEST_IDENTITY_REQUEST) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the MM IDENTITY REQUEST message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ID_RQ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatIndRes (DL_DATA_INDICATION_IDENTIFY_RESPONSE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the MM IDENTITY RESPONSE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ID_RES_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqLupAcp (DL_DATA_REQUEST_LOCATION_UPDATING_ACCEPT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the MM LOCATION UPDATING ACCEPT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	LUP_ACP_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqLupRej (DL_DATA_REQUEST_LOCATION_UPDATING_REJECT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the MM LOCATION UPDATING REJECT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	LUP_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInTmsireCom (DL_DATA_INDICATION_TMSI_REALLOCATION_COMPLETE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the MM TMSI REALLOCATION COMPLETE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	TMSIRE_COM_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInAlert (DL_DATA_INDICATION_ALERTING) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC ALERTING message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ALERT_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInCallCo (DL_DATA_INDICATION_CALL_CONFIRMED) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC CALL CONFIRMED message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CALL_CO_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCallProc (DL_DATA_REQUEST_CALL_PROCEEDING) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC CALL PROCEEDING message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CALL_PROC_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqConn (DL_DATA_REQUEST_CONNECT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC CONNECT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqConn_Asci (DL_DATA_REQUEST_CONNECT_ASCI) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the VGCS?VBS CONNECT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CON_ASCI_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqConn_Asci_Err (DL_DATA_REQUEST_CONNECT_ASCI_ERR) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the VGCS?VBS CONNECT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CON_ASCI_PDU_ERR	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInConn (DL_DATA_INDICATION_CONNECT) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC CONNECT message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqConnAck (DL_DATA_REQUEST_CONNECT_ACKNOWLEDGE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC CONNECT ACKNOWLEDGE message using acknowledged operation (L3 → L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_ACK_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInConnAck (DL_DATA_INDICATION_CONNECT_ACKNOWLEDGE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the reception of the CC CONNECT ACKNOWLEDGE message using acknowledged operation (L2 → L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_ACK_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqDisc (DL_DATA_REQUEST_DISCONNECT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC DISCONNECT message using acknowledged operation (L3 → L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	DISC_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInDisc (DL_DATA_INDICATION_DISCONNECT) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC DISCONNECT message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	DISC_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInHold (DL_DATA_INDICATION_HOLD) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC HOLD message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HOLD_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqHoldRj (DL_DATA_REQUEST_HOLD_REJECT) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the HOLD REJECT message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HOLD_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInESetup (DL_DATA_INDICATION_EMERGENCY_SETUP) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC EMERGENCY_SETUP message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg fn	SAPID LOGICCH ESETUP_PDU FN	0 DCCH frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInNotifResp (DL_DATA_INDICATION_NOTIFICATION_RESPONSE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the NOTIFICATION RESPONSE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg fn	SAPID LOGICCH NT_RES_PDU FN	0 DCCH frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInRegister (DL_DATA_INDICATION_REGISTER) PCO Type : SAP0_3 Comments : The ASP is used to receive the transmission of the SS REGISTER message using acknowledged operation.		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg fn	SAPID LOGICCH REGISTER_PDU FN	0 DCCH
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqRel (DL_DATA_REQUEST_RELEASE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC RELEASE message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInRel (DL_DATA_INDICATION_RELEASE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC RELEASE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqRelCmp (DL_DATA_REQUEST_RELEASE_COMPLETE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC RELEASE COMPLETE message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_COM_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInRelCmp (DL_DATA_INDICATION_RELEASE_COMPLETE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC RELEASE COMPLETE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_COM_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqSetup (DL_DATA_REQUEST_SETUP) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC SETUP message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	SETUP_MT_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInSetup_asci (DL_DATA_INDICATION_SETUP_ASCII) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the VGCS/VBS SETUP message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	SETUP_ASCII_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInSetup (DL_DATA_INDICATION_SETUP) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC SETUP message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	SETUP_MO_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInCcst (DL_DATA_INDICATION_CC_STATUS) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the CC STATUS message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CCST_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCcstEnq (DL_DATA_REQUEST_CC_STATUS_ENQ) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the CC STATUS_ENQ message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CCST_ENQ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UDatRqUpFree (DL_UDATA_REQUEST_UPLINK_FREE) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the UPLINK FREE message using unacknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	UP_FR_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqUpRel (DL_DATA_REQUEST_UPLINK_RELEASE) PCO Type : SAP0_3 Comments : The ASP is used to send the UPLINK RELEASE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	UP_RL_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInUpRel (DL_DATA_INDICATION_UPLINK_RELEASE) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the UPLINK RELEASE message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	UP_RL_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInStatus (DL_DATA_INDICATION_STATUS_ASCI) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the STATUS message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	STATUS_ASCI_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInTermRq (DL_DATA_INDICATION_TERMINATION_REQUEST_ASCI) PCO Type : SAP0_3 Comments : The ASP is used to indicate the receipt of the TERMINATION REQUEST message using acknowledged operation (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	TERM_RQ_ASCI_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqSetPar (DL_DATA_REQUEST_SET_PARAMETER_ASCI) PCO Type : SAP0_3 Comments : The ASP is used to request the transmission of the SET PARAMETER message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	
msg	SET_PAR_ASCI_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : MDL_ReIRq
(MDL_RELEASE_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to request the local end termination of a previous established acknowledged mode operation (L3 -> L2). The local end termination procedure is initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
release_mode	RelMode	local end release

Detailed Comments :

PDU Type Definition			
PDU Name : HOLD_ACK_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC HOLD ACKNOWLEDGE n -> ms GSM 04.08, 9.3.11			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : START_DTMF_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC START DTMF ms -> n GSM 04.08, 9.3.24			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
kpf	KPF		keypad facility M OCTETSTRING [2]
Detailed Comments :			

PDU Type Definition			
PDU Name : START_DTMF_ACK_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC START DTMF ACKNOWLEDGE n -> ms GSM 04.08, 9.3.25			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
kpf	KPF		keypad facility M OCTETSTRING [2]
Detailed Comments :			

PDU Type Definition			
PDU Name : STOP_DTMF_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC STOP DTMF ms -> n GSM 04.08, 9.3.29			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : STOP_DTMF_ACK_PDU			
PCO Type : SAP0_3			
Encoding Rule Name :			
Encoding Variation :			
Comments : CC STOP DTMF acknowledge n -> ms GSM 04.08, 9.3.30			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition

PDU Name : ASS_CMD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR ASSIGNMENT COMMAND n -> ms
GSM 04.08, 9.1.2

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		Assignment command message type M BITSTRING [8]
ch1d_at	CHD		description of the 1st channel, after time M OCTETSTRING [3]
pcmd	PCMD		power command M OCTETSTRING [1]
frql_at	FRQL		frequency list, after time C OCTETSTRING [4..132], '05'O
cchd	CCHD		cell channel description O, '62'O OCTETSTRING [17]
dmsc	MSA		description of the multislot configuration, C, '10'O, OCTETSTRING [3..12]
ch1mod	CHMOD		mode of the 1st channel (set 1), O, '63'O, OCTETSTRING [2]
modchs2	CHMOD		mode of channel set 2, O, '11'O, OCTETSTRING [2]
modchs3	CHMOD		mode of channel set 3, O, '13'O, OCTETSTRING [2]
modchs4	CHMOD		mode of channel set 4, O, '14'O, OCTETSTRING [2]
modchs5	CHMOD		mode of channel set 5, O, '15'O, OCTETSTRING [2]
modchs6	CHMOD		mode of channel set 6, O, '16'O, OCTETSTRING [2]
modchs7	CHMOD		mode of channel set 7, O, '17'O, OCTETSTRING [2]
modchs8	CHMOD		mode of channel set 8, O, '18'O, OCTETSTRING [2]
ch2d_at	CHD		description of the 2nd channel, after time, '64'O O OCTETSTRING [4]
ch2mod	CHMOD		mode of the 2nd channel O '66'O, OCTETSTRING [2]
ma_at	MA		mobile allocation after time C, '72'O, OCTETSTRING [3..10]

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
strt	STRT		starting time O, '7C'O, OCTETSTRING [3]
frql_bt	FRQL		frequency list, before time C OCTETSTRING [4..132], '19'O
ch1d_bt	CHD		description of the 1st channel, before time O, '1C'O OCTETSTRING [4]
ch2d_bt	CHD		description of the 2nd channel, before time O, '1D'O, OCTETSTRING [4]
frqchs_bt	FRQCHS		frequency channel sequence before time C, '1E'O OCTETSTRING [10]
ma_bt	MA		mobile allocation before time C, '21'O OCTETSTRING [3..10]
cphms	CPHMS		cipher mode setting O, '9-'O, OCTETSTRING [1]
vgcstmi	VGCSTMI		VGCS target mode indication O, '01'O, OCTETSTRING [2]
Detailed Comments :			

PDU Type Definition			
PDU Name : ASS_COM_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR ASSSIGNMENT COMPLETE ms -> n GSM 04.08, 9.1.3			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cause M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : ASSFL_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR ASSIGNMENT FAILURE ms -> n GSM 04.08, 9.1.4			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cause M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : CHMMO_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR CHANNEL MODE MODIFY n -> ms GSM 04.08, 9.1.5			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	CHD		channel description M OCTETSTRING [3]
chmod	CHMOD		channel mode M BITSTRING [8]
vgcstmi	VGCSTMI		VGCS target mode indication O, '01'O, OCTETSTRING [2]
Detailed Comments :			

PDU Type Definition			
PDU Name : CHMMO_ACK_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR CHANNEL MODE MODIFY ACKNOWLEDGE ms → n GSM 04.08, 9.1.6			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	CHD		channel description M OCTETSTRING [3]
chmod	CHMOD		channel mode M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : CH_REL_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR CHANNEL RELEASE n → ms GSM 04.08, 9.1.7			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier, M BITSTRING [4]
rrpd	PD		RR protocol discriminator, M BITSTRING [4]
mt	MT		message type, M BITSTRING [8]
rrcau	RRCAU		RR cause, M BITSTRING [8]
barng	BARANGE		BA range, O, '73'O, OCTETSTRING [6..251]
gchd	GCHD		group channel description, O '74'O, OCTETSTRING [4..13]
gckn	GCKN		group cipherkey number, O '8x'O, BITSTRING [8]
gprsr	GPRSR		GPRS resumption, O, 'Cx', BITSTRING[8]
Detailed Comments :			

PDU Type Definition			
PDU Name : CH_RQ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR CHANNEL REQUEST ms -> n GSM 04.08, 9.1.8			
Field Name	Field Type	Field Encoding	Comments
ecau_rrf	BITSTRING [8]		establishment cause / random reference M
Detailed Comments :			

PDU Type Definition			
PDU Name : CPHM_CMD_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR CIPHERING MODE COMMAND n -> ms GSM 04.08, 9.1.9			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cph_res	CPH_RES		cipher response M BITSTRING [4]
cphms	CPHMS		cipher mode setting M BITSTRING [4]
Detailed Comments :			

PDU Type Definition			
PDU Name : CPHM_COM_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR CIPHERING MODE COMPLETE ms -> n GSM 04.08, 9.1.10			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mei	MI		mobile equipment identity O '17'O, OCTETSTRING [10], 15 digits, BCD
Detailed Comments :			

PDU Type Definition			
PDU Name : FRQRE_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR FREQUENCY REDEFINITIONY n -> ms GSM 04.08, 9.1.13			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	CHD		channel description M OCTETSTRING [3]
ma	MA		mobile allocation M OCTETSTRING [2..9]
strt	STRT		starting time M OCTETSTRING [2]
cchd	CCHD		cell channel description O, '62'O, OCTETSTRING [17]
Detailed Comments :			

PDU Type Definition			
PDU Name : HOACC_PDU			
PCO Type : SAP0_3			
Encoding Rule Name :			
Encoding Variation :			
Comments : RR HANDOVER ACCESS ms -> n GSM 04.08, 9.1.14			
Field Name	Field Type	Field Encoding	Comments
horf	HORF		handover reference M BITSTRING [8]
Detailed Comments :			

PDU Type Definition

PDU Name : HO_CMD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR HANDOVER COMMAND n -> ms
GSM 04.08, 9.1.15

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cd	CD		cell description M OCTETSTRING [2]
ch1d_at	CHD		description of the 1st channel, after time M OCTETSTRING [3]
horf	HORF		handover reference M BITSTRING [8]
pcmd	PCMD		power command and Access type M OCTETSTRING [1]
synchi	SYNCHI		synchronization indication, O, 'D-', OCTETSTRING [1]
frqsl_at	FRQL		frequency short list, after time C, '02'O, OCTETSTRING [10]
frql_at	FRQL		frequency list, after time C '05'O, OCTETSTRING [4..132]
cchd	CCHD		cell channel description C, '62'O, OCTETSTRING [17]
dmisc	MSA		description of the multislot configuration, O, phase 2+, '10'O, OCTETSTRING [3..12]
ch1mod	CHMOD		mode of the 1st channel (set 1), O, '63'O, OCTETSTRING [2]
modchs2	CHMOD		mode of channel set 2, O, phase 2+, '11'O, OCTETSTRING [2]
modchs3	CHMOD		mode of channel set 3, O, phase 2+, '13'O, OCTETSTRING [2]
modchs4	CHMOD		mode of channel set 4, O, phase 2+, '14'O, OCTETSTRING [2]
modchs5	CHMOD		mode of channel set 5, O, phase 2+, '15'O, OCTETSTRING [2]
modchs6	CHMOD		mode of channel set 6, O, phase 2+, '16'O, OCTETSTRING [2]

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
modchs7	CHMOD		mode of channel set 7, O, phase 2+, '17'O, OCTETSTRING [2]
modchs8	CHMOD		mode of channel set 8, O, phase 2+, '18'O, OCTETSTRING [2]
ch2d_at	CHD		description of the 2nd channel, after time O '64'O, OCTETSTRING [4]
ch2mod	CHMOD		mode of the 2nd channel O '66'O, OCTETSTRING [2]
frqchs_at	FRQCHS		frequency channel sequence, after time, C, '69'O, OCTETSTRING [10]
ma_at	MA		mobile allocation, after time, C, '72'O, OCTETSTRING [3..10]
strt	STRT		starting time O '7C'O, OCTETSTRING [3]
rtdif	TDIF		real time difference C '7B'O, OCTETSTRING [3]
ta	TA		timing advance C '7D'O, OCTETSTRING [2]
frqsl_bt	FRQL		frequency short list, before time C '12'O, OCTETSTRING [10]
frql_bt	FRQL		frequency list, before time C '19'O, OCTETSTRING [4..132]
ch1d_bt	CHD		description of the 1st channel, before time O '1C'O, OCTETSTRING [4]
ch2d_bt	CHD		description of the 2nd channel, before time O '1D'O, OCTETSTRING [4]
frqchs_bt	FRQCHS		frequency channel sequence, before time C '1E'O, OCTETSTRING [10]
ma_bt	MA		mobile allocation, before time C '21'O, OCTETSTRING [3..10]
cphms	CPHMS		cipher mode setting O '9-O, OCTETSTRING [1]
vgcstmi	VGCSTMI		VGCS target mode indication O, '01'O, phase 2+, OCTETSTRING [2]
Detailed Comments :			

PDU Type Definition			
PDU Name : HO_COM_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR HANDOVER COMPLETE ms -> n GSM 04.08, 9.1.16			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cause M OCTETSTRING [1]
motdif	MTDIF		mobile observed time difference O '77'O, OCTETSTRING [5]
Detailed Comments :			

PDU Type Definition			
PDU Name : HOFL_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR HANDOVER FAILURE ms -> n GSM 04.08, 9.1.17			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cause M OCTETSTRING [1]
Detailed Comments :			

PDU Type Definition

PDU Name : IMMASS_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR IMMEDIATE ASSIGNMENT n -> ms
 GSM 04.08, 9.1.18

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
dm_tbf	Dm_TBF		TBF or dedicate mode M, BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
chd	CHD		channel description C OCTETSTRING [3]
pchd	PCHD		packet channel description C OCTETSTRING [3]
rqr	RQR		request reference M OCTETSTRING [3]
ta	TA		timing advance M OCTETSTRING [1]
ma	MA		mobile allocation, M OCTETSTRING [1..9]
strt	STRT		starting time O '7C'O, OCTETSTRING [3]
iaroct	IARESTOCT		IA rest octets / frequency parameter, before time M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : IMMASSX_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR IMMEDIATE ASSIGNMENT n -> ms
 GSM 04.08, 9.1.19

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
chd1	CHD		channel description 1 M OCTETSTRING [3]
rqr1	RQR		request reference 1 M OCTETSTRING [3]
ta1	TA		timing advance 1 M OCTETSTRING [1]
chd2	CHD		channel description 2 M OCTETSTRING [3]
rqr2	RQR		request reference 2 M OCTETSTRING [3]
ta2	TA		timing advance 2 M OCTETSTRING [1]
ma	MA		mobile allocation, M OCTETSTRING [1..5]
strt	STRT		starting time O '7C'O, OCTETSTRING [3]
iaxroct	OCTETSTRING [1..4]		IAX rest octets M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : IMMASS_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR IMMEDIATE REJECT n -> ms
 GSM 04.08, 9.1.20

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
rqr1	RQR		request reference 1 M OCTETSTRING [3]
wi1	WI		wait indication 1 M HEXSTRING [2]
rqr2	RQR		request reference 2 M OCTETSTRING [3]
wi2	WI		wait indication 2 M HEXSTRING [2]
rqr3	RQR		request reference 3 M OCTETSTRING [3]
wi3	WI		wait indication 3 M HEXSTRING [2]
rqr4	RQR		request reference 4 M OCTETSTRING [3]
wi4	WI		wait indication 4 M HEXSTRING [2]
iarroct	OCTETSTRING [3]		IAR rest octets M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition			
PDU Name : MSR_RPT_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR MEASUREMENT REPORT ms -> n GSM 04.08, 9.1.21			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msrr	MSRR		measurement results M OCTETSTRING [16]
Detailed Comments :			

PDU Type Definition			
PDU Name : NT_FACCH_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR NOTIFICATION / FACCH n -> ms GSM 04.08, 9.1.21a			
Field Name	Field Type	Field Encoding	Comments
rrspd	B_1		RR short PD '0'B M
mt	B_5		message type '00001'B M BITSTRING[5]
sl2h	B_2		short layer 2 header M BITSTRING[2]
gcii	B_1		group call information (0) /paging information indicator (1) M BITSTRING[1]
gci	GCI		group call information O
mi	MI		mobile identity O
chf	B_2		channel first O BISTRING[2]
emlppi	B_1		eMLPP priority indicator
emlpp	B_3		eMLPP priority O BITSTRING[3]
spb	BITSTRING [1..7]		spare bits, optional
spd	OCTETSTRING [1..17]		'2B..2B'O padding, optional
Detailed Comments : The message has a fixed length of 20 octets.			

PDU Type Definition			
PDU Name : NT_NCH_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR NOTIFICATION / NCH n -> ms GSM 04.08, 9.1.21b			
Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
gbcr1	DCR		descriptive group or broadcast call reference M OCTETS [4.5]
ntnroct	NTNRO		ntn rest octets O OCTETS [15.5]
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Type Definition			
PDU Name : NT_NCH_PDU_ERR PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR NOTIFICATION / NCH n -> ms GSM 04.08, 9.1.21b			
Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
unknown	UNKWN		unknown
ntnroct	NTNRO		ntn rest octets O OCTETS [15.5]
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Type Definition			
PDU Name : NT_RES_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR NOTIFICATION RESPONSE ms -> n GSM 04.08, 9.1.21d			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msclm	MSCLM2		mobile station classmark 2 information M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
gbcr	DCR		descriptive group or broadcast call reference M OCTETS [4.5]
Detailed Comments :			

PDU Type Definition

PDU Name : PG1_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING REQUEST_TYPE1 n -> ms
 GSM 04.08, 9.1.22

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chn_m1_2	CHNEED		channels needed for mobiles 1 and 2 M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
mi1	MI		mobility identity 1 M OCTETSTRING [2..9]
mi2	MI		mobility identity 2 O '17'O OCTETSTRING [3..10]
p1roct	OCTETSTRING [0..17]		P1 rest octets '2B2B2B...'O
p1roct2	P1RO		P1 rest octets, phase 2+

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : PG2_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING REQUEST TYPE2 n -> ms
 GSM 04.08, 9.1.23

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chn_m1_2	CHNEED		channels needed for mobile 1 and 2 M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
mi1	TMSI		mobility identity 1 M OCTETSTRING [4]
mi2	TMSI		mobility identity 2 M OCTETSTRING [4]
mi3	MI		mobility identity 3 O OCTETSTRING [3..10]
p2roct	OCTETSTRING [1..11]		p2 rest octets M
p2roct2	P2RO		p2 rest octets, phase 2+

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : PG3_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING REQUEST TYPE3 n -> ms
 GSM 04.08, 9.1.24

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chn_m1_2	CHNEED		channels needed for mobiles 1 and 2 M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
mi1	TMSI		mobility identity 1 M OCTETSTRING [4]
mi2	TMSI		mobility identity 2 M OCTETSTRING [4]
mi3	TMSI		mobility identity 2 M OCTETSTRING [4]
mi4	TMSI		mobility identity 4 M OCTETSTRING [4]
p3roct	OCTETSTRING [3]		p3 rest octets M
p3roct2	P3RO		p3 rest octets, phase 2+

Detailed Comments : The message has an L2 pseudo length of 19 octets and a total length of 23 octets.

PDU Type Definition			
PDU Name : PG_RES_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR PAGING RESPONSE ms -> n GSM 04.08, 9.1.25			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
cphksn	CPHKS		ciphering key sequence number M BITSTRING [4]
msclm	MSCLM2		mobile station classmark information M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
Detailed Comments :			

PDU Type Definition			
PDU Name : PHYINFO_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR PHYSICAL INFORMATION n -> ms GSM 04.08 clause 9.1.28			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ta	TA		timing advance M OCTETSTRING [1]
Detailed Comments :			

PDU Type Definition			
PDU Name : SCHINFO_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYNCHRONIZATION CHANNEL INFORMATION n -> ms GSM 04.08, 9.1.30			
Field Name	Field Type	Field Encoding	Comments
ncc	NCC		PLMN colour code
bcc	BCC		BS colour code
t1	T1		part of reduced TDMA frame number
t2	T2		part of reduced TDMA frame number
t3_	T3_		part of reduced TDMA frame number
Detailed Comments : SCHINFO_PDU has a total length of 25 bits (GSM 04.04).			

PDU Type Definition			
PDU Name : SYSINFO1_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE1 n -> ms GSM 04.08, 9.1.31			
Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cchd	CCHD		cell channel description M OCTETSTRING [16]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
si1roct	SI1RO		SI1 rest octets M
Detailed Comments : The message has an L2 pseudo length of 21 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSINFO2_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE2 n -> ms GSM 04.08, 9.1.32			
Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcchfl	NCD		bcch frequency list M OCTETSTRING [16]
nccp	NCCP		ncc permitted M OCTETSTRING [1]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
Detailed Comments : The message has an L2 pseudo length of 22 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSINFO2bis_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE2bis n -> ms GSM 04.08, 9.1.33			
Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
xbcchfl	NCD		extended bcch frequency list M OCTETSTRING [16]
rachcp	RACHCP		rach control parameters M for 2bis, N/A for 2ter OCTETSTRING [3]
si2bisroct	OCTETSTRING [1]		SI2bis rest octets M 1
Detailed Comments : This PDU type is used both for SYSINFO2bis, as well as for 2ter. The 2bis message has an L2 pseudo length of 21 octets and a total length of 23 octets.			

PDU Type Definition

PDU Name : SYSINFO3_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE3 n -> ms
 GSM 04.08, 9.1.35

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ci	CI		cell identity M OCTETSTRING [2]
lai	LAI		location area identification M OCTETSTRING [5]
ccd	CCD		control channel description M OCTETSTRING [3]
co	CO		cell options/BCCH M, 1 octet
csp	CSP		cell selection parameters M OCTETSTRING [2]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
si3roct	SI3RO		SI3 rest octets M
Detailed Comments : The message has an L2 pseudo length of 18 octets and a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSINFO4_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE4 n -> ms GSM 04.08, 9.1.36			
Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
lai	LAI		location area identification M OCTETSTRING [5]
csp	CSP		cell selection parameters M OCTETSTRING [2]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
cbchd	CHD		cbch channel description '64'O O OCTETSTRING [4]
cbchma	MA		mobile allocation '72'O C OCTETSTRING [3..6]
si4roct	SI4RO		SI4 rest octets M OCTETSTRING [1..10]
Detailed Comments : The message has a total length of 23 octets.			

PDU Type Definition			
PDU Name : SYSINFO5_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE5 n -> ms GSM 04.08, 9.1.37			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcchfl	NCD		bcch frequency list M OCTETSTRING [16]
Detailed Comments :			

PDU Type Definition			
PDU Name : SYSINFO5bis_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE5bis n -> ms GSM 04.08, 9.1.38			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
xbccchfl	NCD		Extension of bcch frequency list M OCTETSTRING [16]
Detailed Comments :			

PDU Type Definition			
PDU Name : SYSINFO6_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE6 n -> ms GSM 04.08, 9.1.40			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ci	CI		cell identity M OCTETSTRING [2]
lai	LAI		location area identification M OCTETSTRING [5]
co	CO		cell options /SACCH M , OCTETSTRING[1]
nccp	NCCP		ncc permitted M OCTETSTRING [1]
si6roct	SI6RO		SI6 rest octets M OCTETSTRING [7]
Detailed Comments :			

PDU Type Definition			
PDU Name : SYSINFO10_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR SYSTEM INFORMATION TYPE 10 n -> ms GSM 04.08, 9.1.50			
Field Name	Field Type	Field Encoding	Comments
rrpd	B_1		RR short protocol discriminator M BITSTRING [1]
mt	B_5		message type M BITSTRING [5]
sl2h	B_2		short layer 2 header M BITSTRING [2]
si10roct	SI10RO		SI10 rest octets M
Detailed Comments :			

PDU Type Definition			
PDU Name : TK_IND_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR TALKER INDICATION ms -> n GSM 04.08, 9.1.44			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msc	MSCLM2		Mobile station classmark 2 M OCTETSTRING[5]
mi	MI		Mobile identity M OCTETSTRING [2-8]
Detailed Comments :			

PDU Type Definition			
PDU Name : UP_ACC_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR UPLINK ACCESS ms -> n GSM 04.08, 9.1.45			
Field Name	Field Type	Field Encoding	Comments
ecau_rrf	BITSTRING [8]		establishment cause / random reference M
Detailed Comments :			

PDU Type Definition			
PDU Name : UP_BS_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR UPLINK BUSY n -> ms GSM 04.08, 9.1.46			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : UP_FR_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR UPLINK FREE n -> ms GSM 04.08, 9.1.47			
Field Name	Field Type	Field Encoding	Comments
rrpd	B_1		RR protocol discriminator M BITSTRING [4]
mt	B_5		message type M BITSTRING [5]
sl2h	B_2		short layer 2 header M BITSTRING[2]
uar	B_1		uplink access request M BITSTRING[1]
uici	B_1		uplink identity code indicator M BITSTRING[1]
uic	B_6		uplink identity code M BITSTRING[6]
sp	BITSTRING[1..7]		spare bits M BITSTRING [1..7]
Detailed Comments :			

PDU Type Definition			
PDU Name : UP_RL_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR UPLINK RELEASE n <-> ms GSM 04.08, 9.1.48			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cause M OCTETSTRING [1]
Detailed Comments :			

PDU Type Definition			
PDU Name : VGCS_UP_GR_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : RR VGCS UPLINK GRANT n -> ms GSM 04.08, 9.1.49			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rqr	RQR		request reference M OCTETSTRING[3]
ta	TA		timing advance M OCTETSTRING[1]
Detailed Comments :			

PDU Type Definition			
PDU Name : AUTH_RQ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM AUTHENTICATION REQUEST n -> ms GSM 04.08, 9.2.2			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
cphksn	CPHKS		ciphering key sequence number M BITSTRING [4]
rand	RAND		authentication parameter rand M BITSTRING [128]
Detailed Comments :			

PDU Type Definition			
PDU Name : AUTH_RES_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM AUTHENTICATION RESPONSE ms -> n GSM 04.08, 9.2.3			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
sres	SRES		authentication response signature M OCTETSTRING [4]
Detailed Comments :			

PDU Type Definition			
PDU Name : CMS_ACP_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM CM SERVICE ACCEPT n -> ms GSM 04.08, 9.2.5			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : CMS_REJ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM CM SERVICE REJECT n -> ms GSM 04.08, 9.2.6			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mmcau	REJCAU		Reject Cause M OCTETSTRING [1]
Detailed Comments :			

PDU Type Definition			
PDU Name : CMS_RQ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM CM SERVICE REQUEST ms -> n GSM 04.08, 9.2.9			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cphksn	CPHKS		ciphering key sequence number M BITSTRING [4]
svtype	CMSVTYPE		CM service type M BITSTRING [4]
msclm	MSCLM2		mobile station classmark M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
pr	PRT		priority '8-'O O OCTETSTRING[1]
Detailed Comments :			

PDU Type Definition			
PDU Name : ID_RQ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM IDENTITY REQUEST n -> ms GSM 04.08, 9.2.10			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
idtype	IDTYPE		identity type M BITSTRING [4]
Detailed Comments :			

PDU Type Definition			
PDU Name : ID_RES_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM IDENTITY RESPONSE ms -> n GSM 04.08, 9.2.11			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mi	MI		mobility identity M OCTETSTRING [2..9]
Detailed Comments :			

PDU Type Definition			
PDU Name : IMSID_IN_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM IMSI DETACH INDICATION ms -> n GSM 04.08, 9.2.12			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msclm	MSCLM1		mobile station classmark M OCTETSTRING [1]
mi	MI		mobility identity M OCTETSTRING [2..9]
Detailed Comments :			

PDU Type Definition			
PDU Name : LUP_ACP_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM LOCATION UPDATING ACCEPT n -> ms GSM 04.08, 9.2.13			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
lai	LAI		location area identification M OCTETSTRING [5]
mi	MI		mobility identity '17'O O OCTETSTRING [2..9]
fop	IEI_8		follow-on proceed 'A1' O BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : LUP_REJ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM LOCATION UPDATING REJECT n -> ms GSM 04.08, 9.2.14			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rejcau	REJCAU		reject cause M OCTETSTRING [1]
Detailed Comments :			

PDU Type Definition			
PDU Name : LUP_RQ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM LOCATION UPDATING REQUEST ms -> n GSM 04.08, 9.2.15			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cphksn	CPHKS		ciphering key sequence number M BITSTRING [4]
lutype	LUT		location updating type M BITSTRING [4]
lai	LAI		location area identification M OCTETSTRING [5]
msclm	MSCLM		mobile station classmark 1 M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
Detailed Comments :			

PDU Type Definition			
PDU Name : TMSIRE_COM_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : MM TMSI REALLOCATION COMPLETE ms -> n GSM 04.08, 9.2.18			
Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : ALERT_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC ALERTING ms <-> n GSM 04.08, 9.3.1			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
fie	FIE		facility '1C' O
pi	PI		progress indicator n -> ms '1E' O OCTETSTRING [4]
uu	UU		user-user '7E'O O OCTETSTRING [3..35]
ssvi	SSVI		SS version indicator ms -> n '7F'O O OCTETSTRING [2..3]
Detailed Comments :			

PDU Type Definition

PDU Name : CALL_CO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CALL CONFIRMED ms -> n
GSM 04.08, 9.3.2

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator 'D-'O C BITSTRING [8]
bcap1	BCAP		bearer capab. '04'O O OCTETSTRING [3..10]
bcap2	BCAP		bearer capab. '04'O O
cau	CAU		cause '08'O O OCTETSTRING [4..32]
cccap	CCCAP		cc capabilities '15'O O OCTETSTRING [3]

Detailed Comments :

PDU Type Definition

PDU Name : CALL_PROC_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CALL PROCEEDING n -> ms
 GSM 04.08, 9.3.3

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator 'D-'O C BITSTRING [8]
bcap1	BCAP		bearer capab. O '04'O OCTETSTRING [3..10]
bcap2	BCAP		bearer capab. O '04'O OCTETSTRING [3..10]
fie	FIE		facility '1C'O O
pi	PI		progress indicator '1E'O O OCTETSTRING [4]
pr	PRT		priority granted '8-'O O OCTETSTRING[1]

Detailed Comments :

PDU Type Definition			
PDU Name : CONN_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC CONNECT n <--> ms GSM 04.08, 9.3.5			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
fie	FIE		facility '1C' O
pi	PI		progress indicator n -> ms '1E'O O OCTETSTRING [4]
cnn	CNN		connected number n -> ms '4C'O O OCTETSTRING [3..14]
cns	CNS		connected subaddress '4D'O O OCTETSTRING [2..23]
uu	UU		user-user information '7E'O O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms -> n '7F'O O OCTETSTRING [2..3]
Detailed Comments :			

PDU Type Definition			
PDU Name : CONN_ACK_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC CONNECT ACKNOWLEDGE ms <--> n GSM 04.08, 9.3.6			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : DISC_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC DISCONNECT ms <--> n (both directions) GSM 04.08, 9.3.7			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [4..32]
fie	FIE		facility '1C'O O
pi	PI		progress indicator n -> ms '1E'O O OCTETSTRING [4]
uu	UU		user-user information '1F'O O OCTETSTRING [3..35]
ssvi	SSVI		SS version indicator '7F'O O OCTETSTRING [3]
Detailed Comments :			

PDU Type Definition			
PDU Name : ESETUP_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC EMERGENCY SETUP ms -> n GSM 04.08, 9.3.8			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcap	BCAP		bearer capab. '04'O O OCTETSTRING [3..10]
Detailed Comments :			

PDU Type Definition			
PDU Name : HOLD_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC HOLD ms -> n GSM 04.08, 9.3.10			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : HOLD_REJ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC HOLD REJECT n -> ms GSM 04.08, 9.3.12			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [3..31]
Detailed Comments :			

PDU Type Definition			
PDU Name : REL_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC RELEASE n <--> ms GSM 04.08, 9.3.18			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause '08'O O OCTETSTRING [4..32]
cau2	CAU		second cause '08'O O OCTETSTRING [4..32]
fie	FIE		facility '1C'O O
uu	UU		user-user information '7E'O O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms -> n '7F'O O OCTETSTRING [2..3]
Detailed Comments :			

PDU Type Definition			
PDU Name : REL_COM_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC or SS RELEASE COMPLETE n <--> ms GSM 04.08, 9.3.19; GSM 04.80, 2.5			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
cc_sspdp	PD		protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause '08'O O OCTETSTRING [4..32]
fie	FIE		facility '1C'O O
uu	UU		user-user information '7E'O O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms -> n '7F'O O OCTETSTRING [2..3]
Detailed Comments :			

PDU Type Definition

PDU Name : SETUP_MO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC SETUP n <- ms
GSM 04.08, 9.3.23.2

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator 'D-'O C BITSTRING [8]
bcap1	BCAP		bearer capab. '04'O M
bcap2	BCAP		bearer capab. '04'O O OCTETSTRING [3..10]
fie	FIE		facility '1C'O O
cgps	CGPS		calling party subaddr. '5D'O O OCTETSTRING [2..23]
cdpn	CDPN		called party BCD number '5E'O M OCTETSTRING[2..23]
cdps	CDPS		called party subaddr. '6D'O O OCTETSTRING [2..23]
llcri	RPI		LLC repeat indicator 'D-'O O OCTETSTRING [1]
llcmp1	LLCMP		low layer compatib.1 '7C'O O OCTETSTRING [2..15]
llcmp2	LLCMP		low layer compatib.2 '7C'O O
hlcri	RPI		HLC repeat indicator 'D-' O OCTETSTRING [1]
hlcmp1	HLCMP		high layer compat.1 '7D'O O OCTETSTRING [2..5]
hlcmp2	HLCMP		high layer compat. 2 '7D'O O
uu	UU		user-user information '7E'O O OCTETSTRING [3..35]
ssvi	SSVI		SS version '7F'O O OCTETSTRING [2..3]
clirsup	CLRSUP		CLIR suppression 'A1'O C OCTETTRING[1]
clirinv	CLRINV		CLIR invocation 'A2'O C OCTETSTRING[1]

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
cccap	CCCAP		call control capabilities '15'O O OCTETSTRING[3]
Detailed Comments :			

PDU Type Definition

PDU Name : SETUP_MT_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC SETUP n -> ms
GSM 04.08, 9.3.23.1

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator 'D-'O C BITSTRING [8]
bcap1	BCAP		bearer capab. '08'O O
bcap2	BCAP		bearer capab. '08'O O OCTETSTRING [3..10]
fie	FIE		facility '1C'O O
pi	PI		progress indicator '1E'O O OCTETSTRING [4]
sig	SIGNAL		signal '34'o O OCTETSTRING[2..34]
cgpn	CGPN		calling party BCD number '5C'o O OCTETSTRING [2..24]
cgps	CGPS		calling party subaddr. '5D'O O OCTETSTRING [2..23]
cdpn	CDPN		called party BCD number '5E'O O OCTETSTRING[2..23]
cdps	CDPS		called party subaddr. '6D' O OCTETSTRING [2..23]
llcri	RPI		LLC repeat indicator 'D-'O O OCTETSTRING [1]
llcmp1	LLCMP		low layer compatib.1 '7C'O O OCTETSTRING [2..15]
llcmp2	LLCMP		low layer compatib.2 C '7C'O OCTETSTRING [2..15]
hlcri	RPI		HLC repeat indicator 'D-'O O OCTETSTRING [1]
hlcmp1	HLCMP		high layer compat.1 '7D'O O OCTETSTRING [2..5]
hlcmp2	HLCMP		high layer compat. 2 C '7D'O OCTETSTRING [2..5]
uu	UU		user-user information '7E'O O OCTETSTRING [3..35]
pr	PRT		priority '8-'O O OCTETSTRING[1]

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PDU Type Definition			
Field Name	Field Type	Field Encoding	Comments
alert	ALPT		alerting pattern '19'O O OCTETSTRING[3]
Detailed Comments :			

PDU Type Definition			
PDU Name : CCST_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC STATUS n <--> ms GSM 04.08, 9.3.27			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [4..32]
cst	CST		call state M OCTETSTRING[1]
acst	ACST		auxiliary status '24'O O OCTETSTRING[3]
Detailed Comments :			

PDU Type Definition			
PDU Name : CCST_ENQ_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : CC STATUS ENQUIRY ms <--> n GSM 04.08, 9.3.28			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
Detailed Comments :			

PDU Type Definition			
PDU Name : CON_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS/VBS CONNECT n -> ms GSM 04.68 GSM 04.69 , 8.1			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
gcr	GCR		Group call reference M OCTETSTRING [4]
spb	B_4		Spare bits M BITSTRING[4]
oind	OIND		Originator indication M BITSTRING[4]
Detailed Comments :			

PDU Type Definition			
PDU Name : CON_ASCII_PDU_ERR PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : ASCII CONNECT n -> ms GSM 04.68 GSM 04.69 , 8.1			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
gcr	GCR		Group call reference M OCTETSTRING [4]
unknown	UNKWN		unknown information element
spb	B_4		Spare bits M BITSTRING[4]
oind	OIND		Originator indication M BITSTRING[4]
Detailed Comments :			

PDU Type Definition			
PDU Name : GST_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS GET STATUS PDU n->ms GSM 04.68 GSM 04.69, 8.2			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mi	MI		Mobile identity '17'O TLV O OCTETSTRING [3-10]
mi2	MI		Mobile identity '17'O TLV O OCTETSTRING [3-10]
unknown	UNKWN		unknown information element
Detailed Comments :			

PDU Type Definition			
PDU Name : IMM_SETUP_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS IMMEDIATE SETUP , ms->n GSM 04.68 GSM 04.69 , 8.3			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cphks	CPHKS		ciphering key sequence number M BITSTRING[4]
sprho	B_4		spare half octet M BITSTRING [4]
msclmrk2	MSCLM2		mobile station classmark 2 M OCTETSTRING[4]
mi	MI		mobile identity M OCTETSTRING [2-9]
gi	GCR		group identity M OCTETSTRING[4]
Detailed Comments :			

PDU Type Definition			
PDU Name : IMM_SETUP2_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS IMMEDIATE SETUP , ms->n GSM 04.68 GSM 04.69 , 8.3			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cphks	CPHKS		ciphering key sequence number M BITSTRING[4]
sprho	B_4		spare half octet M BITSTRING [4]
msclmrk2	MSCLM2		mobile station classmark 2 M OCTETSTRING[4]
mi	MI		mobile identity M OCTETSTRING [2-9]
gi	GCR		group identity M OCTETSTRING[4]
c_utdi	C_UTDI		Compressed UTDI M OCTETSTRING[5]
Detailed Comments :			

PDU Type Definition			
PDU Name : SET_PAR_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS SET PARAMETER , n -> ms GSM 04.68 GSM 04.69, 8.4			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
sprho	B_4		spare half octet M BITSTRING[4]
sta	STA		state attributes – M BITSTRING[4]
Detailed Comments :			

PDU Type Definition			
PDU Name : SETUP_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS SETUP, MS -> N GSM 04.68 GSM 04.69, 8.5			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
gcr	GCR		Group call reference M OCTETSTRING [4]
utd	UU		User-to-Dispatcher information O TLV OCTETSTRING[3-35]
Detailed Comments :			

PDU Type Definition			
PDU Name : STATUS_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS STATUS , ms -> n GSM 04.68 GSM 04.69, 8.6			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cause	CAUV		Cause M LV OCTETSTRING [2-248]
cst	CSTV		Call state 'A-' O OCTETSTRING[1]
sta	STA		state attributes O BITSTRING[4]
Detailed Comments :			

PDU Type Definition			
PDU Name : TERM_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS TERMINATION , n -> ms GSM 04.68 GSM 04.69, 8.7			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cause	CAUV		Cause M LV OCTETSTRING [2-248]
Detailed Comments :			

PDU Type Definition			
PDU Name : TERM_RJ_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS TERMINATION REJECT, n -> ms GSM 04.68 GSM 04.69, 8.8			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cause	CAUV		Cause M LV OCTETSTRING [2-248]
Detailed Comments :			

PDU Type Definition			
PDU Name : TERM_RQ_ASCII_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : VGCS TERMINATION REQUEST, ms -> n GSM 04.68 GSM 04.69, 8.9			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
gcpd	PD		Group call control protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
gcr	GCR		Group call reference M OCTETSTRING [4]
Detailed Comments :			

PDU Type Definition			
PDU Name : REGISTER_PDU PCO Type : SAP0_3 Encoding Rule Name : Encoding Variation : Comments : SS REGISTER ms <-> n GSM 04.80, 2.4			
Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sspd	PD		SMS protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
fie	FIE		facility MV[2-?]
ssvi	SSVI		SS version indicator[3] ms -> n
Detailed Comments :			

III

Constraints Part

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_03 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Default neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800 for cell B with the ARFCN list = {520, 600, 700, 780, 810, 870}.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		extension indication
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	'04412C168E440000000000000000'O		ARFCN: 520, 600, 700, 780, 810, 870
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_45 Structured Type : NCD Derivation Path : BcchFreqLst_01. Encoding Variation : Comments : Default neighbour cells description of cell B for SYSTEM INFORMATION 2 and 5 under GSM900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'802008020080000000000000000000'O		ARFCN: 10, 80, 90, 100, 110, 120
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CallState_01(st : INTEGER) Structured Type : CST Derivation Path : Encoding Variation : Comments : CC state 'st'			
Element Name	Element Value	Element Encoding	Comments
cs	'11'B		GSM PLMNS standard
csv	INT_TO_BIT(st, 6)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_07			
Structured Type : CAU			
Derivation Path : Cause_01.			
Encoding Variation :			
Comments : cause information element with cause value = #81.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		extension bit invalid message invalid transaction identifier value
iel	?		
location	?		
extb4	?		
cau_class	'101'B		
cau_va	'0001'B		
cau_di	*		
Detailed Comments :			

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

Structured Type Constraint Declaration			
Constraint Name : Cause_26 Structured Type : CAU Derivation Path : Encoding Variation : Comments : cause information element with cause value = #26, location = user. n->ms			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		
iel	'02'O		
extb3	'1'B		no extension
cs	'11'B		standard coding
spb	'0'B		
location	'0000'B		user
extb3a	–		no octet 3a
rec	–		
extb4	'1'B		no extension
cau_class	'001'B		normal event
cau_va	'0000'B		normal call clearing
cau_di	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_29 Structured Type : CAU Derivation Path : Encoding Variation : Comments : cause information element with cause value = #26, location = user. n->ms			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		
iel	'02'O		
extb3	'1'B		no extension
cs	'11'B		standard coding
spb	'0'B		
location	'0000'B		user
extb3a	–		no octet 3a
rec	–		
extb4	'1'B		no extension
cau_class	'001'B		normal event
cau_va	'1101'B		normal call clearing
cau_di	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CompUDTI_R Structured Type : C_UTDI Derivation Path : Encoding Variation : Comments : Received constraint			
Element Name	Element Value	Element Encoding	Comments
uupd	?		user–user protocol discriminator
uui	'00499602D2'O		user user information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : KeyPad_01(character : IA5String) Structured Type : KPF Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		keypad facility identity,
extb	'0'B		extension bit ('0'B)
kpf_info	character		one DTMF digit (IA5 character)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : KeyPad_02 Structured Type : KPF Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		keypad facility identity,
extb	'0'B		extension bit ('0'B)
kpf_info	?		one DTMF digit (IA5 character)
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SS_Version_01 Structured Type : SSVI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		
iel	'01'O		
ssv	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : UuInfo_R (cpa_length: LENGTH; cpa_data : OCTETSTRING) Structured Type : UU Derivation Path : Encoding Variation : Comments : Received constraint			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		'01111110'B
iel	cpa_length		
uupd	'00000000'B		user-user protocol discriminator
uui	cpa_data		user user information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : UuInfo_S (cpa_length: LENGTH; cpa_data : OCTETSTRING) Structured Type : UU Derivation Path : Encoding Variation : Comments : Received constraint			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		'01111110'B
iel	cpa_length		
uupd	'00000000'B		user-user protocol discriminator
uui	cpa_data		user user information
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : UuInfo_S_NoData			
Structured Type : UU			
Derivation Path :			
Encoding Variation :			
Comments : Received constraint			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		'01111110'B
iel	'01'O		
uupd	'00000000'B		user-user protocol discriminator
uui	–		user user information
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_MO(rchr1 : B_2; itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 : B_2; sacp : B_3; sb, nsb1, ndb1 : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability without OCTET 7 for direction ms -> n

Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		IEI
iel	('07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O)		length of the IE contents
extb3	?		
rchr	rchr1		radio channel requirement
cs	'0'B		coding standard : GSM
tm	'0'B		circuit
itc	itc1		information transfer capability
oct_3a_etc_1	*		octet 3a etc no.1
oct_3a_etc_2	*		octet 3a etc no.2
oct_3a_etc_3	*		octet 3a etc no.3
oct_3a_etc_4	*		octet 3a etc no.4
oct_3a_etc_5	*		octet 3a etc no.5
oct_3a_etc_6	*		octet 3a etc no.6
extb4	'1'B		Extension
spb	'0'B		Spare
strc	strc1		structure
dplx	'1'B		Full duplex
config	'0'B		Point to point
nirr	nirr		
est	'0'B		Demand
extb5	'1'B		Extension
accid	'00'B		Access id
ra	ra1		rate adaption
sacp	sacp		Signalling access protocol
extb6	'0'B		Extension
l1id	'01'B		L1 id: default
uil1	'0000'B		User information L1 protocol
sb	sb		Synchronous
extb6a	'0'B		Extension
nsb	nsb1		number of stop bits, not checked
nb	'0'B		In band negotiation not possible
ndb	ndb1		number of data bits, not checked
ur	ur1		user rate
extb6b	'0'B		Extension
ir	ir1		intermediate rate
nictx	'0'B		NIC on Tx: not required
nicrx	'0'B		NIC on Rx: not supported

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
pi	parity		Parity, not checked
extb6c	'1'B		Extension
ce	ce1		connection element
modemt	modemt1		modem type
extb7	–		Extension
l2id	–		layer 2 id
uil2	–		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_MT(itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 :B_2; sacp : B_3; sb : B_1; nbsb , nbdb : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability for direction n->ms

Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		IEI
iel	'07'O		length of the IE contents
extb3	'1'B		no extension
rchr	'01'B		spare bits for n-> ms
cs	'0'B		coding standard : GSM
tm	'0'B		circuit
itc	itc1		information transfer capability
oct_3a_etc_1	-		octet 3a etc no.1
oct_3a_etc_2	-		octet 3a etc no.2
oct_3a_etc_3	-		octet 3a etc no.3
oct_3a_etc_4	-		octet 3a etc no.4
oct_3a_etc_5	-		octet 3a etc no.5
oct_3a_etc_6	-		octet 3a etc no.6
extb4	'1'B		Extension
spb	'0'B		Spare
strc	strc1		structure
dplx	'1'B		Full duplex
config	'0'B		Point to point
nirr	nirr		No meaning
est	'0'B		Demand
extb5	'1'B		Extension
accid	'00'B		Access id
ra	ra1		rate adaption
sacp	sacp		Signalling access protocol
extb6	'0'B		Extension
l1id	'01'B		L1 id: default
uil1	'0000'B		User information L1 protocol
sb	sb		Synchronous
extb6a	'0'B		Extension
nbsb	nbsb		number of stop bits
nb	'0'B		In band negotiation not possible
ndb	ndb		number of data bits
ur	ur1		user rate
extb6b	'0'B		Extension
ir	ir1		intermediate rate
nictx	'0'B		NIC on Tx: not required
nicrx	'0'B		NIC on Rx: not supported
pi	parity		Parity
extb6c	'1'B		Extension

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
ce	ce1		connection element
modemt	modemt1		modem type
extb7	–		Extension
l2id	–		layer 2 id
uil2	–		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : BcapX_MO(rchr1 : B_2; itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 : B_2; sacp : B_3; sb, nsb1, ndb1 : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5; fctl : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability with OCTET 7 for direction ms -> n

Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		IEI
iel	('07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		length of the IE contents
extb3	?		
rchr	rchr1		radio channel requirement
cs	'0'B		coding standard : GSM
tm	'0'B		circuit
itc	itc1		information transfer capability
oct_3a_etc_1	*		octet 3a etc no.1
oct_3a_etc_2	*		octet 3a etc no.2
oct_3a_etc_3	*		octet 3a etc no.3
oct_3a_etc_4	*		octet 3a etc no.4
oct_3a_etc_5	*		octet 3a etc no.5
oct_3a_etc_6	*		octet 3a etc no.6
extb4	'1'B		Extension
spb	'0'B		Spare
strc	strc1		structure
dplx	'1'B		Full duplex
config	'0'B		Point to point
nirr	nirr		
est	'0'B		Demand
extb5	'1'B		Extension
accid	'00'B		Access id
ra	ra1		rate adaption
sacp	sacp		Signalling access protocol
extb6	'0'B		Extension
l1id	'01'B		L1 id: default
uil1	'0000'B		User information L1 protocol
sb	sb		Synchronous
extb6a	'0'B		Extension
nsb	nsb1		number of stop bits
nb	'0'B		In band negotiation not possible
ndb	ndb1		number of data bits, not checked
ur	ur1		user rate
extb6b	'0'B		Extension
ir	ir1		intermediate rate
nictx	'0'B		NIC on Tx: not required
nicrx	'0'B		NIC on Rx: not supported
pi	parity		Parity

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
extb6c	'1'B		Extension
ce	ce1		connection element
modemt	modemt1		modem type
extb7	'1'B IF_PRESENT		Extension
l2id	'10'B IF_PRESENT		layer 2 id
uil2	fctl IF_PRESENT		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : BcapX_MT(itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 :B_2; sacp : B_3; sb : B_1; nbsb , nbdb : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5; flct : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability for direction n->ms BS 21, .. 26, except BS23

Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		IEI
iel	'08'O		length of the IE contents
extb3	'1'B		no extension
rchr	'01'B		spare bits for n-> ms
cs	'0'B		coding standard : GSM
tm	'0'B		circuit mode
itc	itc1		information transfer capability
oct_3a_etc_1	-		octet 3a etc no.1
oct_3a_etc_2	-		octet 3a etc no.2
oct_3a_etc_3	-		octet 3a etc no.3
oct_3a_etc_4	-		octet 3a etc no.4
oct_3a_etc_5	-		octet 3a etc no.5
oct_3a_etc_6	-		octet 3a etc no.6
extb4	'1'B		
spb	'0'B		
strc	strc1		structure
dplx	'1'B		
config	'0'B		
nirr	nirr		
est	'0'B		
extb5	'1'B		
accid	'00'B		
ra	ra1		rate adaption
sacp	sacp		
extb6	'0'B		
l1id	'01'B		
uil1	'0000'B		
sb	sb		
extb6a	'0'B		
nbsb	nbsb		number of stop bits, 1
nb	'0'B		negotiation
ndb	ndb		number of data bits, 8
ur	ur1		user rate
extb6b	'0'B		
ir	ir1		intermediate rate, 16 or 8 kbits/s
nictx	'0'B		
nicrx	'0'B		
pi	parity		Parity none
extb6c	'1'B		
ce	ce1		connection element

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
modemt	modemt1		modem type
extb7	'1'B		
l2id	'10'B		layer 2 id
uil2	flct		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_Speech_MO(rcr : B_2)
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : speech bearer capability for direction ms->n.

Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		IEI
iel	('01'O, '02'O, '03'O, '04'O, '05'O, '06'O, '07'O)		length of the IE contents
extb3	?		
rchr	rcr		radio channel requirement
cs	'0'B		coding standard : GSM
tm	'0'B		circuit mode
itc	'000'B		speech
oct_3a_etc_1	*		octet 3a etc no.1
oct_3a_etc_2	*		octet 3a etc no.2
oct_3a_etc_3	*		octet 3a etc no.3
oct_3a_etc_4	*		octet 3a etc no.4
oct_3a_etc_5	*		octet 3a etc no.5
oct_3a_etc_6	*		octet 3a etc no.6
extb4	—		
spb	—		
strc	—		
dplx	—		
config	—		
nirr	—		
est	—		
extb5	—		
accid	—		
ra	—		
sacp	—		
extb6	—		
l1id	—		
uil1	—		
sb	—		
extb6a	—		
nsb	—		
nb	—		
ndb	—		
ur	—		
extb6b	—		
ir	—		
nictx	—		
nicrx	—		
pi	—		
extb6c	—		
ce	—		
modemt	—		
extb7	—		

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
l2id	-		
uil2	-		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_Speech_MT
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : speech bearer capability for direction n->ms

Element Name	Element Value	Element Encoding	Comments
iei	'00000100'B		IEI
iel	'01'O		length of the IE contents
extb3	'1'B		no extension
rchr	'01'B		spare bits for n-> ms
cs	'0'B		coding standard : GSM
tm	'0'B		circuit mode
itc	'000'B		speech
oct_3a_etc_1	-		octet 3a etc no.1
oct_3a_etc_2	-		octet 3a etc no.2
oct_3a_etc_3	-		octet 3a etc no.3
oct_3a_etc_4	-		octet 3a etc no.4
oct_3a_etc_5	-		octet 3a etc no.5
oct_3a_etc_6	-		octet 3a etc no.6
extb4	-		
spb	-		
strc	-		
dplxm	-		
config	-		
nirr	-		
est	-		
extb5	-		
accid	-		
ra	-		
sacp	-		
extb6	-		
l1id	-		
uil1	-		
sb	-		
extb6a	-		
nsb	-		
nb	-		
ndb	-		
ur	-		
extb6b	-		
ir	-		
nictx	-		
nicrx	-		
pi	-		
extb6c	-		
ce	-		
modemt	-		
extb7	-		

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
l2id	–		
u1l2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_Omit Structured Type : NCD Derivation Path : Encoding Variation : Comments : Omit Bcch Frequency list (Neighbour cells description)			
Element Name	Element Value	Element Encoding	Comments
rfl2	–		
extind	–		
baind	–		
rfl4	–		
rfl	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_01 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Default neighbour cells description for SYSTEM INFORMATION 2 and 5 under GSM900 with the ARFCN list = {10, 20, 40, 80, 90, 100, 110, 120}.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'00'B		bit map 0 format
extind	'1'B		
baind	'0'B		BCCH allocation sequence number
rfl4	'0000'B		
rfl	'8020080200800000000008 000080200'O		ARFCN: 10, 20, 40, 80, 90, 100, 110, 120
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_02 Structured Type : NCD Derivation Path : BcchFreqLst_01. Encoding Variation : Comments : Alternative neighbour cells description for SYSTEM INFORMATION 2 and 5 under GSM900. These are ARFCNs 15, 85, 95, 105, 115, and 122			
Element Name	Element Value	Element Encoding	Comments
rfl4	'0010'B		
rfl	'0401004010000000000000 000004000'O		ARFCN: 15, 85, 95, 105, 115, 122
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_04 Structured Type : NCD Derivation Path : BcchFreqLst_01. Encoding Variation : Comments : Alternative neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		extension indication
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	'09412C168E440000000000 000000000'O		ARFCN: 530, 610, 710, 790, 820, 880
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_21 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. BA list = {2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44}, format is bitmap 0, IE carries complete BA.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'00'B		bit map 0 format
extind	'0'B		complete BA
baind	'1'B		BCCH allocation sequence number
rfl4	'0000'B		
rfl	'000000000000000000008A EBAFFBFFA'O		ARFCNs: 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_27 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800. BA list = {514, 530, 549, 602, 665, 686, 762, 810}, format is 1024 range, IE carries complete BA.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 1024 format
extind	'0'B		complete BA
baind	'1'B		BCCH allocation sequence number
rfl4	'0010'B		
rfl	'99C6187B6D0D4C380000 0000000000'O		ARFCN 514, 530, 549, 602, 665, 686, 762, 810
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_28 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing.BA list = {2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44}, format is bitmap 0, IE carries only a part of the BA.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'00'B		bit map 0 format
extind	'1'B		partial BA
baind	'1'B		BCCH allocation sequence number
rfl4	'0000'B		
rfl	'0000000000000000008A EBAFFBFFA'O		ARFCNs: 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_29 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list = {549, 602, 665, 686, 810}. Format is range 1024, IE carries only a part of the BA.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 1024 format
extind	'1'B		
baind	'1'B		
rfl4	'0010'B		
rfl	'99E0A472E100000000000 000000000'O		ARFCN 549, 602, 665, 686, 810
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_30

Structured Type : NCD

Derivation Path :

Encoding Variation :

Comments	: Neighbour cells description for SYSTEM INFORMATION 5bis for measurement testing. BA list {0, 800}, format is range 1024, IE carries only a part of the BA.
-----------------	--

Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 1024 format
extind	'1'B		
baind	'1'B		
rfl4	'0111'B		
rfl	'20000000000000000000 000000000'O		ARFCN 0, 800

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_31

Structured Type : NCD

Derivation Path :

Encoding Variation :

Comments	: Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list {20, 514, 530, 549, 762}, format is range 1024, IE carries only a part of the BA.
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Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 1024 format
extind	'1'B		
baind	'1'B		
rfl4	'0000'B		
rfl	'1473FF8AFC000000000000 000000000'O		ARFCN 20, 514, 530, 549, 762

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_48 Structured Type : NCD Derivation Path : Encoding Variation : Comments : Default neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800 for cell B in RR, MM and SMS test cases with the ARFCN list = {520, 590, 600, 700, 747, 764, 780, 810, 870}.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		range 512 format
extind	'0'B		extension indication
baind	'0'B		bcch allocation sequence number indication
rfl4	'1001'B		
rfl	'043D170B8A62C8F23000000000000'O		ARFCN: 520, 590, 600, 700, 747, 764, 780, 810, 870
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Ca1_g01 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : ARFCNs = 1.. 64 for GSM of TC_26_6_6_1, ca_pgsm(1) = 64.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'0000000000000000FFFFFFFFFFF'O		ARFCNs = 1.. 64, bit map 0 format
Detailed Comments : B_ARFCN = 16, not in MA(1)			

Structured Type Constraint Declaration			
Constraint Name : Ca2_g06 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		
rfl	'0040C0C0C0E0C0C0C0C0C0C0C0C0C0C0C0C012'O		bit map 0 format
Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 120, not in MA(2)			

Structured Type Constraint Declaration			
Constraint Name : Ca3_g06			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'003003000030000003003 00003000000'O		
Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 45, not in MA(3)			

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

Structured Type Constraint Declaration			
Constraint Name : Ca3_d06			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 512
rfl	'896593F981B37F241F0FB 6F800000000'O		
Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 715, B_ARFCN = 742, not in MA(3)			

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

Structured Type Constraint Declaration			
Constraint Name : CauseIE_Asci (causev : B_7)			
Structured Type : CAUV_IE			
Derivation Path :			
Encoding Variation :			
Comments : cause ANY			
Element Name	Element Value	Element Encoding	Comments
caui	'0'B		Only one cause ie ANY no diagnostics
cauv	causev		
diag	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_Asci (causev : B_7) Structured Type : CAUV Derivation Path : Encoding Variation : Comments : cause VGCS			
Element Name	Element Value	Element Encoding	Comments
length	'00000001'B		length M BISTRING [8]
cau1	CauseIE_Asci (causev)		cause
cau2	–		
cau3	–		
cau4	–		
cau5	–		
cau6	–		
cau7	–		
cau8	–		
cau9	–		
cau10	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_Def Structured Type : CAU Derivation Path : Encoding Variation : Comments : cause information element with any valid cause value, any valid location.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
extb3	'1'B		no extension
cs	'11'B		GSM coding
spb	'0'B		
location	('0000'B, '0001'B, '0010'B, '0011'B, '0100'B, '0101'B, '0111'B, '1010'B)		
extb3a	–		no octet 3a
rec	–		
extb4	?		no extension
cau_class	?		
cau_va	?		
cau_di	*		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_01 Structured Type : CAU Derivation Path : Encoding Variation : Comments : cause information element with cause value = #16, location = user.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	'02'O		
extb3	'1'B		no extension
cs	'11'B		standard coding
spb	'0'B		
location	'0000'B		user
extb3a	–		no octet 3a
rec	–		
extb4	'1'B		no extension
cau_class	'001'B		normal event
cau_va	'0000'B		normal call clearing
cau_di	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_08 Structured Type : CAU Derivation Path : Encoding Variation : Comments : used as an unknown IE			
Element Name	Element Value	Element Encoding	Comments
iei	'00100100'B		unknown IEI
iel	'01'O		length
extb3	'1'B		arbitrary contents
cs	'11'B		
spb	'1'B		
location	'1111'B		
extb3a	–		
rec	–		
extb4	–		
cau_class	–		
cau_va	–		
cau_di	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_09			
Structured Type : CAU			
Derivation Path : Cause_08.			
Encoding Variation :			
Comments : used as an unknown IE			
Element Name	Element Value	Element Encoding	Comments
iei	'01111101'B		unknown IEI
iel	'01'O		length
extb3	'1'B		arbitrary content
cs	'11'B		
spb	'0'B		
location	'1110'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Cause_11			
Structured Type : CAU			
Derivation Path :			
Encoding Variation :			
Comments : cause information element with cause value = #31.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	'02'O		
extb3	'1'B		
cs	'11'B		user
spb	'0'B		
location	'0000'B		
extb3a	—		no octet 3a
rec	—		
extb4	'1'B		no extension
cau_class	'001'B		normal event
cau_va	'1111'B		normal call clearing
cau_di	—		
Detailed Comments :			

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

Structured Type Constraint Declaration			
Constraint Name : Cause_69 Structured Type : CAU Derivation Path : Cause_01. Encoding Variation : Comments : cause information element with cause value = #69.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		extension bit invalid message requested facility not implemented
iel	?		
location	?		
extb4	?		
cau_class	'100'B		
cau_va	'0101'B		
cau_di	*		
Detailed Comments :			

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

Structured Type Constraint Declaration			
Constraint Name : CellChDes_02 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell A in RR testing of GSM 900 with the ARFCN_list={20,30,50,70}.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'000000000000002000020 00020080000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_03 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell A in RR testing of DCS1800 with the ARFCN list = {590, 650, 750, 850}..			
Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'89272827190000000000 00000000000'O		ARFCNs : 590, 650, 750, 850 512 range
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_04			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : for cell B in RR testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
iei	–		ARFCNs : 10
rfl	'00000000000000000000 00000000200'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_05 Structured Type : CCHD Derivation Path : CellChDes_04. Encoding Variation : Comments : for cell N1 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000000080'O		ARFCNs : 8
Detailed Comments :			

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

Structured Type Constraint Declaration

Constraint Name : CellChDes_06

Structured Type : CCHD

Derivation Path : CellChDes_04.

Encoding Variation :

Comments : for cell N2 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000002000'O		ARFCNs : 14

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_06d

Structured Type : CCHD

Derivation Path :

Encoding Variation :

Comments : for cell N2 in measurement testing of DCS.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'825A0000000000000000 000000000000'O		ARFCNs : 602 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_07

Structured Type : CCHD

Derivation Path : CellChDes_04.

Encoding Variation :

Comments : for cell N3 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000080000'O		ARFCNs : 20

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_07d

Structured Type : CCHD

Derivation Path :

Encoding Variation :

Comments : for cell N3 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
iei rfl	- '82990000000000000000 0000000000'O		ARFCNs : 665 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_08

Structured Type : CCHD

Derivation Path : CellChDes_04.

Encoding Variation :

Comments	: for cell N4 in measurement testing of GSM 900.
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Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00002000000'O		ARFCNs : 26

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_08d

Structured Type : CCHD

Derivation Path :

Encoding Variation :

Comments : for cell N4 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'82FA0000000000000000 000000000000'O		ARFCNs : 762 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : CellChDes_09 Structured Type : CCHD Derivation Path : CellChDes_04. Encoding Variation : Comments : for cell N5 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00080000000'O		ARFCNs : 32
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_09d Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell N5 in measurement testing of DCS1800.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '82AE0000000000000000 00080000000'O		ARFCNs : 686 , 1024 range format
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_10 Structured Type : CCHD Derivation Path : CellChDes_04. Encoding Variation : Comments : for cell N6 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 02000000000'O		ARFCNs : 38
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : CellChDes_10d

Structured Type : CCHD

Derivation Path :

Encoding Variation :

Comments : for cell N6 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
iei rfl	– '82250000000000000000 00000000000'O		ARFCNs : 549 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_11

Structured Type : CCHD

Derivation Path : CellChDes_04.

Encoding Variation :

Comments	: for cell N7 in measurement testing of GSM 900.
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Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 800000000000'O		ARFCNs : 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_11d

Structured Type : CCHD

Derivation Path :

Encoding Variation :

Comments : for cell N7 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'832A0000000000000000 000000000000'O		ARFCNs : 810 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : CellChDes_15 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell A in RR testing of GSM 900 with ARFCN_list={10,17,20,26,34,42,45,46,52,59}			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '000000000000000004083 20202090200'O		bit map 0 format
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_15d Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell A in RR testing of DCS with the ARFCN_list={734, 741, 747, 754, 759, 766, 773, 775, 779, 782}.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '8D6F20D0DCF0A3AE000 0000000000000'O		range 128 format
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_20_Aman Structured Type : CCHD Derivation Path : Encoding Variation : Comments : Cell Channel Description for any cell in RR testing of GSM 900 HO cases with the ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '0002080000000F0204083 20202090200'O		bit map 0
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_201_Ad Structured Type : CCHD Derivation Path : Encoding Variation : Comments : Cell Channel Description for cell A in RR testing of DCS1800 HO cases with the ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} using 256 format.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '8B6F14F32FC602C59EFF A54999400000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_202_Adman Structured Type : CCHD Derivation Path : Encoding Variation : Comments : Cell Channel Description for cell A in RR testing of DCS1800 HO cases with the Complete Cell Allocation of Cell A in HO cases using 512 format. ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '896F0A7CC5FC700A8B9F 7FF452463340'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_20_Bman Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell B in RR testing of GSM 900 HO cases with the complete Cell Allocation ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '0002080000000F0208000 0A060A22000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_201_Bd Structured Type : CCHD Derivation Path : Encoding Variation : Comments : Cell Channel Description for cell B in RR testing of DCS1800 HO cases with the ARFCN_list={739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 256 format.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	- '8B71907137B602C5DEF7 A348D8000000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_202_Bd Structured Type : CCHD Derivation Path : Encoding Variation : Comments : Cell Channel Description for cell B in RR testing of DCS1800 HO cases with the ARFCN_list={739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 512 format.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	- '8971883C46FB700A8BDF 7DF432433000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_r01 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell A in RR testing of DCS1800 with the ARFCN_list={773, 775, 779, 782, 791, 798, 829, 832, 844}.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	'01100010'B '8D8299C22EF52CC00000 000000000000'O		range 128 format
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellChDes_r03 Structured Type : CCHD Derivation Path : Encoding Variation : Comments : for cell A in RR testing of GSM 900 with the ARFCN_list={45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114}.			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		
rfl	'0002080000000F020408300000000000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CellDescrp(ncc1, bcc1 : B_3; par_arfcn: INTEGER) Structured Type : CD Derivation Path : Encoding Variation : Comments : BCCH channel for Cell A			
Element Name	Element Value	Element Encoding	Comments
bcch_arfcn_h	OC_MostBits(INT_TO_BIT(par_arfcn, 10), 2)		bcch arfcn high part
ncc	ncc1		PLMN colour code
bcc	bcc1		BS colour code
bcch_arfcn_l	OC_LeastBits(INT_TO_BIT(par_arfcn, 10), 8)		bcch arfcn low part
Detailed Comments :			

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

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

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

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

Structured Type Constraint Declaration			
Constraint Name : ChDescrp_fh(par_chtype: CH_TDMA; ts_ccch: SN; tsc : TSC; maio : MAIO; hsn : HSN) Structured Type : CHD Derivation Path : Encoding Variation : Comments : A derived constraint for <<Channel description >>ie with TCH/F freq. hopping in any CELL.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01100100'B
cht_schn	par_chtype		
tn	ts_ccch		
tsc	tsc		
hch	'1'B		hopping
maio	maio		
hsn	hsn		
spr	–		not used
arfcn	–		not used
Detailed Comments :			

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

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

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

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

Structured Type Constraint Declaration			
Constraint Name : ChMod_EFR2 Structured Type : CHMOD Derivation Path : ChMod_sign. Encoding Variation : Comments : enhanced full/half rate speech – version 2.			
Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_r2		
Detailed Comments :			

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

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

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

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

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

Structured Type Constraint Declaration			
Constraint Name : ClassMark1 Structured Type : MSCLM1 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spr1	'0'B		spare bit '0'B
rl	TSPX_RevLevel		revision level
spr2	TSPX_EsInd		
a5_1	TSPX_CiphAlgA5_1		a5/1 algorithm supported
rfpc	TSPX_RfPwrCap		rf power capability
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : ClassMark2 Structured Type : MSCLM2 Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iel	'03'O		length
spr1	'0'B		spare bit '0'B
rl	TSPX_RevLevel		revision level
spr2	TSPX_EsInd		
a5_1	TSPX_CiphAlgA5_1		a5/1 algorithm supported
rfpc	TSPX_RfPwrCap		rf power capability
spr3	'0'B		spare bit '0'B
psc	TSPX_pSyncCap		pseudo synchronisation capability
sssi	TSPX_SSscrnInd		SS screen indicator
smc	TSPX_SMCap		short message capability
spr4	'00'B		spare bit '00'B
fc	TSPX_frqCap		frequency capability
cm3	TSPX_ClsMk3		classmark 3 indicator
spr5	'00000'B		spare bit '00000'B
a5_3	TSPX_CiphAlgA5_3		a5/3 algorithm supported
a5_2	TSPX_CiphAlgA5_2		a5/2 algorithm supported
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CntrlChDscrp(att: INTEGER; babr, cch_con, bpm : B_3; timer : OCTETSTRING) Structured Type : CCD Derivation Path : Encoding Variation : Comments : Generic Control channel descriptor.			
Element Name	Element Value	Element Encoding	Comments
spr1	'0'B		
att	INT_TO_BIT(att,1)		
babr	babr		
cch_con	cch_con		
spr2	'00000'B		
bpm	bpm		
t3212	timer		
Detailed Comments :			

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

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

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

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

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

Structured Type Constraint Declaration			
Constraint Name : CphMod_04iei(alg : BITSTRING) Structured Type : CPHMS Derivation Path : Encoding Variation : Comments : starting ciphering with the ciphering algorithm 'alg'.			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		
algid	alg		algorithm identifier
sc	'1'B		starting ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CS_asci_01 (state:B_4) Structured Type : CSTV Derivation Path : Encoding Variation : Comments : call state			
Element Name	Element Value	Element Encoding	Comments
type	'1010'B		
sta	state		state
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : DCR_01 (gcref : B_27; asci_sf : B_1) Structured Type : DCR Derivation Path : Encoding Variation : Comments : Descriptive group or broadcast call reference			
Element Name	Element Value	Element Encoding	Comments
gbceref	gcref		
sf	asci_sf		SF service flag
af	'0'B		AF acknowledgment flag
callpr	'000'B		No priority applied
ciphinfo	'0000'B		no ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : DCR_02 (gcref : B_27; asci_sf : B_1) Structured Type : DCR Derivation Path : Encoding Variation : Comments : Descriptive group or broadcast call reference with priority set to 4.			
Element Name	Element Value	Element Encoding	Comments
gbceref	gcref		
sf	asci_sf		SF service flag
af	'0'B		AF acknowledgment flag
callpr	'100'B		4
ciphinfo	'0000'B		no ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : DCR_eMLPP (gcref : B_27; asci_sf : B_1; priority : B_3)			
Structured Type : DCR			
Derivation Path :			
Encoding Variation :			
Comments : Descriptive group or broadcast call reference			
Element Name	Element Value	Element Encoding	Comments
gbcref	gcref		
sf	asci_sf		SF service flag
af	'0'B		AF acknowledgment flag
callpr	priority		No priority applied
ciphinfo	'0000'B		no ciphering
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Dm_TBF_def			
Structured Type : Dm_TBF			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
spb	'0'B		spare
tma	'0'B		no meaning
d	'0'B		no meaning
td	'0'B		dedicate mode
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : facilityIErcviei(comp : Component)			
Structured Type : FIE			
Derivation Path :			
Encoding Variation :			
Comments : A received FIE may contain several components, but at least contains "comp".			
Element Name	Element Value	Element Encoding	Comments
iei	'00011100'B		
iel	?		
components	Comps_01(comp)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : facilityIEtsndiei(comp : Component) Structured Type : FIE Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011100'B		
iel	OC_LengthOfComp (comp)		
components	{ comp }		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : FreqBCCH(arfcn : INTEGER) Structured Type : FRQPARA Derivation Path : Encoding Variation : Comments : Broadcast channel.			
Element Name	Element Value	Element Encoding	Comments
hch	'0'B		non hopping
maio	–		mobile allocation index offset – hopping, if hch = 1, otherwise –
hsn	–		hopping sequence number – hopping, if hch = 1, otherwise –
spr	'00'B		'00'B – non hopping, if hch = 0, otherwise –
arfcn	INT_TO_BIT(arfcn, 10)		ARFCN
maclength	'00'O		'00'O for non hopping
mac_8n	–		mac64 – mac57
mac_7n	–		mac56 – mac49
mac_6n	–		mac48 – mac41
mac_5n	–		mac40 – mac33
mac_4n	–		mac32 – mac25
mac_3n	–		mac24 – mac17
mac_2n	–		mac16 – mac9
mac_1n	–		mac8 – mac1
flst	–		frequency list for hopping
Detailed Comments :			

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

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

Structured Type Constraint Declaration			
Constraint Name : Freqchseq_22 Structured Type : FRQCHS Derivation Path : Encoding Variation : Comments : Frequency channel sequence with the List_ARFCN={10,17,20,26,59,66,73,74,75,76,108,114}			
Element Name	Element Value	Element Encoding	Comments
iei	'01101001'B		
larfcn	'0A'O		
incs	'7360037711100260'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : FreqTCH(arfcn : INTEGER) Structured Type : FRQPARA Derivation Path : Encoding Variation : Comments : Default Traffic channel non frequency hopping			
Element Name	Element Value	Element Encoding	Comments
hch	'0'B		non hopping
maio	–		
hsn	–		
spr	'00'B		'00'B for no hopping
arfcn	INT_TO_BIT(arfcn, 10)		ARFCN
maclength	'00'O		'00'O for non hopping
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : FreqTCH_omit Structured Type : FRQPARA Derivation Path : Encoding Variation : Comments : Omitted FRQPARA when not needed in parameters list.			
Element Name	Element Value	Element Encoding	Comments
hch	–		
maio	–		
hsn	–		
spr	–		
arfcn	–		
maclength	–		
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	–		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : FreqTCHa3
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		normal hopping
maio	'000001'B		mobile allocation index offset
hsn	'000001'B		hopping sequence number
spr	–		
arfcn	–		
maclength	'02'O		'01'O hopping
mac_8n	'00000011'B		mac64 – mac57
mac_7n	'11111011'B		mac56 – mac49
mac_6n	–		mac48 – mac41
mac_5n	–		mac40 – mac33
mac_4n	–		mac32 – mac25
mac_3n	–		mac24 – mac17
mac_2n	–		mac16 – mac9
mac_1n	–		mac8 – mac1
flst	Frql_10		10, 17, 20, 26, 34, 42, 45, 46, 52, 59

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa8

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : Traffic channel for cell A, hopping, DCS1800 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		normal hopping
maio	'000001'B		mobile allocation index offset
hsn	'000001'B		hopping sequence number
spr	–		
arfcn	–		
maclength	'02'O		'01'O hopping
mac_8n	'00000011'B		mac64 – mac57
mac_7n	'11111011'B		mac56 – mac49
mac_6n	–		mac48 – mac41
mac_5n	–		mac40 – mac33
mac_4n	–		mac32 – mac25
mac_3n	–		mac24 – mac17
mac_2n	–		mac16 – mac9
mac_1n	–		mac8 – mac1
flst	Frql_13		734, 741, 747, 754, 759, 766, 773, 775, 779, 782

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof1

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : a hopping traffic channel of cell A for GSM.

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 12), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	'02'O		
mac_8n	'00001111'B		(75,76,108,114)
mac_7n	'11111111'B		(10,17,20,26,59,66,73,74)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A		{10,17,20,26,59,66,73,74,7 5,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : FreqTCHa_hof1d			
Structured Type : FRQPARA			
Derivation Path :			
Encoding Variation :			
Comments : a hopping channel of cell A for DCS1800			
Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 9), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	'02'O		
mac_8n	'00000001'B		(844)
mac_7n	'11111111'B		(747, 775, 779, 782, 791, 798, 829, 832)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_Ad		{747, 775, 779, 782, 791, 798, 829, 832, 844}
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof3
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 15), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	'02'O		
mac_8n	'01111111'B		(66, 73, 74, 75, 76, 108, 114)
mac_7n	'11111111'B		(14, 18, 22, 24, 30, 31, 38, 53)
mac_6n	–		mac48 – mac41
mac_5n	–		mac40 – mac33
mac_4n	–		mac32 – mac25
mac_3n	–		mac24 – mac17
mac_2n	–		mac16 – mac9
mac_1n	–		mac8 – mac1
flst	Frql_20_B5		frequency list, after time for cell B {14,18,22,24,30,31,38,53,6 6,73,74,75,76,108,114}
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof3d

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 11), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	'02'O		
mac_8n	'00000111'B		(829,832,844)
mac_7n	'11111111'B		(756,758,761,771,779,782, 791,798)
mac_6n	–		mac48 – mac41
mac_5n	–		mac40 – mac33
mac_4n	–		mac32 – mac25
mac_3n	–		mac24 – mac17
mac_2n	–		mac16 – mac9
mac_1n	–		mac8 – mac1
flst	Frql_20_B5d		frequency list, after time for cell B (756, 758, 761, 771, 779, 782, 791, 798, 829, 832, 844)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof1

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : hopping with {73,74,75} of cell allocation A.

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	'03'O		'00O for non hopping
mac_8n	'00000000'B		
mac_7n	'00111000'B		(73,74,75)
mac_6n	'00000000'B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,5 2,59,66,73,74,75,76,108,11 4}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof1d

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments	: a hopping channel of cell A with {773,775,779} of cell allocation A.
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Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	—		
arfcn	—		
maclength	'03'O		
mac_8n	'00000000'B		
mac_7n	'00000111'B		(773, 775, 779)
mac_6n	'00000000'B		
mac_5n	—		
mac_4n	—		
mac_3n	—		
mac_2n	—		
mac_1n	—		
flst	Frql_20_A0d		{734,741,747,754,759,762, 766,767,773,775,779,782,7 91,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : Freq_rg18 Structured Type : FRQPARA Derivation Path : Encoding Variation : Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping channel
maio	'001001'B		mobile allocation index offset
hsn	'000000'B		hopping sequence number
spr	–		'00'B – non hopping, if hch = 0, otherwise –
arfcn	–		absolute RF channel number – non hopping, if hch = 0, otherwise –
maclength	'08'O		
mac_8n	'00000000'B		mac64 – mac57
mac_7n	'00000000'B		mac56 – mac49
mac_6n	'00000000'B		mac48 – mac41
mac_5n	'00000000'B		mac40 – mac33
mac_4n	'00000000'B		mac32 – mac25
mac_3n	'00000000'B		mac24 – mac17
mac_2n	'00111111'B		mac16 – mac9
mac_1n	'11111110'B		mac8 – mac1
flst	Frql_20		ARFCNs = 1.. 64
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Freq_rg23 Structured Type : FRQPARA Derivation Path : Freq_rg18. Encoding Variation : Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
mac_8n	'11111111'B		mac64 – mac57
mac_7n	'10000000'B		mac56 – mac49
mac_6n	'00000000'B		mac48 – mac41
mac_5n	'00000000'B		mac40 – mac33
mac_4n	'00000000'B		mac32 – mac25
mac_3n	'00000000'B		mac24 – mac17
mac_2n	'00011111'B		mac16 – mac9
mac_1n	'00000000'B		mac8 – mac1
flst	Frql_25		ARFCNs = 81, ..., 124, 1, ..., 20
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Freq_rd23 Structured Type : FRQPARA Derivation Path : Freq_rg18.Freq_rg23. Encoding Variation : Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_34		
Detailed Comments : ARFCN's: 707, 709, ..., 713, 715, 717, ..., 721, 723, 725, ..., 729, 731, 733, ..., 737, 739, 741, ..., 745, 747, 749, ..., 753, 755, 757, ..., 761, 763, 765, ..., 769,771, 779, 787, 795, 798,..., 803, 806, ..., 811			

Structured Type Constraint Declaration			
Constraint Name : Frql_omit Structured Type : FRQL Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	—		
iel	—		
fl	—		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_10			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs 10, 17, 20, 26, 34, 42, 45, 46, 52, 59			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 bit map 0 format, ARFCNs 10, 17, 20, 26, 34, 42, 46, 52, 59
iel	'10'O		
fl	'000000000000000004083 20202090200'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_13			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 1024 range format, ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782
iel	'10'O		
fl	'82FEF6837EBF0300FCFE F60000000000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs = 1.. 64 for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 1.. 64, bit map 0 format B_ARFCN = 16, not in MA(1)
iel	'10'O		
fl	'0000000000000000FFFFFF FFFFFFFFF'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_A0			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : Complete Cell Allocation of cell A in HO cases. ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}.			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16
iel	'10'O		
fl	'0002080000000F0204083 20202090200'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_A0d Structured Type : FRQL Derivation Path : Encoding Variation : Comments : Complete Cell Allocation of Cell A in HO cases using 512 format. frequency list, after time for a target cell used in HO_case in cell A for DCS1800. List_ARFCN={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		
iel	'10'O		
fl	'896F0A7CC5FC700A8B9F 7FF452463340'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_A Structured Type : FRQL Derivation Path : Encoding Variation : Comments : frequency list, after time used in HO_case in cell A. List_ARFCN={10,17,20,26,59,66,73,74,75,76,108,114}			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		
iel	'10'O		
fl	'0002080000000F0204000 00002090200'O		length = 16
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_Ad Structured Type : FRQL Derivation Path : Encoding Variation : Comments : frequency list used in HO_case in cell A for DCS1800 using 256 format for the List_ARFCN={747, 775, 779, 782, 791, 798, 829, 832, 844}			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		
iel	'09'O		
fl	'8B7599F045EFA499C0'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frqls_20_Ad Structured Type : FRQL Derivation Path : Encoding Variation : Comments : frequency short list used in HO_case in cell A for DCS1800 for the List_ARFCN={747, 775, 779, 782, 791, 798, 829, 832, 844}			
Element Name	Element Value	Element Encoding	Comments
iei	'00000010'B		
iel	-		
fl	'8B7599F045EFA499C0'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_B5			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : frequency list, after time for cell B. List_ARFCN={14,18,22,24,30,31,38,53,66,73,74,75,76,108,114}			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16
iel	'10'O		
fl	'0002080000000F0200100 02060A22000'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_B5d Structured Type : FRQL Derivation Path : Encoding Variation : Comments : frequency list, after time for cell B. List_ARFCN={756, 758, 761, 771, 779, 782, 791, 798, 829, 832, 844}			
Element Name	Element Value	Element Encoding	Comments
iei	'00000010'B		
iel	-		
fl	'8D7A23B07B3D7FD4D0'O		range 128 format
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_25			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs = 81, ..., 124, 1, ..., 20, for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 81, ..., 124, 1, ..., 20, bit map 0 format
iel	'10'O		
fl	'0FFFFFFFFF000000000 000000FFFF'O		
Detailed Comments : B_ARFCN = 86, not in MA(1)			

Structured Type Constraint Declaration			
Constraint Name : Frql_34 Structured Type : FRQL Derivation Path : Encoding Variation : Comments : ARFCNs = 707, 709, ..., 713, 715, 717, ..., 721, 723, 725, ..., 729, 731, 733, ..., 737, 739, 741, ..., 745, 747, 749, ..., 753, 755, 757, ..., 761, 763, 765, ..., 769,771, 779, 787, 795, 798,..., 803, 806, ..., 811, for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 variable bit map format
iel	'10'O		
fl	'8F61BEBEBEBEBEBEBEBE E8080809F9F80'O		
Detailed Comments : Org_ARFCN = 707, B_ARFCN = 742, not in MA(1)			

Structured Type Constraint Declaration			
Constraint Name : GroupChannelDescr_asci_01 (chDescr : CHD)			
Structured Type : GCHD			
Derivation Path :			
Encoding Variation :			
Comments : Group channel description			
Element Name	Element Value	Element Encoding	Comments
iei	–		'74'O
iel	–		3–11
chd	chDescr		without CHD iei
ma	–		without MA iei, iel
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : GroupChannelDescr_02 (type : CH_TDMA; slot : SN; tsc : TSC; par_arfcn: INTEGER) Structured Type : GCHD Derivation Path : Encoding Variation : Comments : Group channel description			
Element Name	Element Value	Element Encoding	Comments
iei	'01110100'B		'74'O
iel	'03'O		3-11
chd	ChDescrp_nfh (type , TCV_slot , TCV_tsc , TCV_chdescr_arfcn)		without CHD iei
ma	-		without MA iei, iel
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : GroupCallInfo_01 (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) Structured Type : GCI Derivation Path : Encoding Variation : Comments : Group call information			
Element Name	Element Value	Element Encoding	Comments
gbcr	DCR_01 (gcref , asci_sf)		descriptive group or broadcast call reference
gchdi	'1'B		group channel description indicator
gchd	GroupChannelDescr_asci_0 1 (chDescr)		channel description
hci	'0'B		hopping case indicator
mai	-		mobile allocation indicator
ma	-		mobile allocation
fsli	-		frequency short list indicator
fsl	-		frequency short list C lh=0 lh1=1 lh2=1 lh3=1
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : GroupCallInfo_02 (gcref : B_27; asci_sf : B_1) Structured Type : GCI Derivation Path : Encoding Variation : Comments : Group call information without channel description			
Element Name	Element Value	Element Encoding	Comments
gbcr	DCR_01 (gcref , asci_sf)		descriptive group or broadcast call reference
gchdi	'0'B		group channel description indicator
gchd	–		channel description
hci	'0'B		hopping case indicator
mai	–		mobile allocation indicator
ma	–		mobile allocation
fsli	–		frequency short list indicator
fsl	–		frequency short list C lh=0 lh1=1 lh2=1 lh3=1
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : GroupCallInfo_03 (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) Structured Type : GCI Derivation Path : Encoding Variation : Comments : Group call information. With priority set to 4 in the descriptive group or broadcast call reference			
Element Name	Element Value	Element Encoding	Comments
gbcr	DCR_02 (gcref , asci_sf)		descriptive group or broadcast call reference
gchdi	'1'B		group channel description indicator
gchd	GroupChannelDescr_asci_01 (chDescr)		channel description
hci	'0'B		hopping case indicator
mai	–		mobile allocation indicator
ma	–		mobile allocation
fsli	–		frequency short list indicator
fsl	–		frequency short list C lh=0 lh1=1 lh2=1 lh3=1
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : GroupCallInfo_04 (gcref : B_27; asci_sf : B_1) Structured Type : GCI Derivation Path : Encoding Variation : Comments : Group call information without channel description with priority set to 4.			
Element Name	Element Value	Element Encoding	Comments
gbcr	DCR_02 (gcref , asci_sf)		descriptive group or broadcast call reference
gchdi	'0'B		group channel description indicator
gchd	–		channel description
hci	'0'B		hopping case indicator
mai	–		mobile allocation indicator
ma	–		mobile allocation
fsli	–		frequency short list indicator
fsl	–		frequency short list C lh=0 lh1=1 lh2=1 lh3=1
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : GroupCallRef_01 (cref : B_27) Structured Type : GCR Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
ref	cref		reference
prid	'0'B		Priority Indicator
sp4	'0000'B		Spare
pr	–		Priority
sp1	–		Spare
Detailed Comments : Total length = 4Octets			

Structured Type Constraint Declaration			
Constraint Name : GroupCallRef_02 (cref : B_27) Structured Type : GCR Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
ref	cref		reference
prid	?		Priority Indicator
sp4	*		Spare
pr	*		Priority
sp1	*		Spare
Detailed Comments : Total length = 4Octets			

Structured Type Constraint Declaration			
Constraint Name : GroupCallRef_Def Structured Type : GCR Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
ref	?		reference
prid	?		Priority Indicator
sp4	*		Spare
pr	*		Priority
sp1	*		Spare
Detailed Comments : Total length = 4Octets			

Structured Type Constraint Declaration			
Constraint Name : Hlcmp_AnyOrOmit Structured Type : HLCMP Derivation Path : Encoding Variation : Comments : High Layer Compatibility IE with parameter "any" or "omit".			
Element Name	Element Value	Element Encoding	Comments
iei	'01111101'B IF_PRESENT		'01111101'B
iel	*		
extb3	*		extension bit ('1'B)
cs	*		CCITT
in	*		first HL characteristics identification to be used in the call.
pmpp	*		High layer protocol profile
extb4	*		extension bit, octet 4
hlci	*		telephony
extb4a	*		extension bit, '1'B, octet 4a
ehlci	*		extended high layer characteristics identification
Detailed Comments : used in test cases where the HLC is not checked			

Structured Type Constraint Declaration			
Constraint Name : Hlcmp_NotApplicable Structured Type : HLCMP Derivation Path : Encoding Variation : Comments : High Layer Compatibility IE wich is not applicable for a specific service (empty IE).			
Element Name	Element Value	Element Encoding	Comments
iei	'01111101'B		'01111101'B
iel	'00'O		empty IE -> length is 0
extb3	-		
cs	-		
in	-		
pmpp	-		
extb4	-		
hlci	-		
extb4a	-		
ehlci	-		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Hlcmp_TS61 Structured Type : HLCMP Derivation Path : Encoding Variation : Comments : High Layer Compatibility IE for teleservice 61.			
Element Name	Element Value	Element Encoding	Comments
iei	'01111101'B		'01111101'B
iel	'02'O		
extb3	'1'B		extension bit ('1'B)
cs	'00'B		CCITT
in	'100'B		first HL characteristics identification to be used in the call.
pmpp	'01'B		High layer protocol profile
extb4	'?'B		extension bit, octet 4
hlci	'0000100'B		facsimile group 2/3
extb4a	*		extension bit, '1'B, octet 4a
ehlci	*		extended high layer characteristics identification
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Hlcmp_TS62 Structured Type : HLCMP Derivation Path : Encoding Variation : Comments : High Layer Compatibility IE for teleservice 62.			
Element Name	Element Value	Element Encoding	Comments
iei	'01111101'B		'01111101'B
iel	'02'O		
extb3	'1'B		extension bit ('1'B)
cs	'00'B		CCITT
in	'100'B		first HL characteristics identification to be used in the call.
pmpp	'01'B		High layer protocol profile
extb4	'?'B		extension bit, octet 4
hlci	'0000100'B		facsimile group 2/3
extb4a	*		extension bit, '1'B, octet 4a
ehlci	*		extended high layer characteristics identification
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : laRestOct(iel : LENGTH)

Structured Type : IARESTOCT

Derivation Path :

Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	OC_SubOctet('2B2B2B2B2B2B2B2B2B 2B2B2B2B2B2B2B'O, (11 – OC_OctToInt(iel)))		p=00 format
iaroct2	–		p=10 format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : laRestOct_01

Structured Type : IARESTOCT

Derivation Path :

Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	'2B2B2B2B2B2B2B2B2B'O		p=00 format, 11 octets
iaroct2	–		p=10 format used in TC_26_6_13_9, TC_26_6_13_10

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Llcmp_AnyOrOmit
Structured Type : LLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE which has any or omit value in all fields.

Element Name	Element Value	Element Encoding	Comments
iei	'01111100'B IF_PRESENT		'01111100'B
iel	*		empty IE -> length is 0
extb3	*		extension bit, octet 3
cs	*		coding standard, octet 3
itc	*		information transfer capability, octet 3
extb3a	*		extension bit, '1'B, octet 3a
negind	*		negotiation indicator
spb3a	*		spare bits, '000000'B
extb4	*		extension bit, octet 4
tm	*		transfer mode
itr	*		information transfer rate, octet 4
extb4_1	*		extension bit, octet 4.1
rateml	*		not checked
extb5	*		extension bit, octet 5
l1id	*		L1 identity, '01'B, octet 5
uil1	*		user information L1 protocol, octet 5
extb5a	*		extension bit, octet 5a
sb	*		synchronous bit, octet 5a
neg	*		negotiation bit, octet 5a
ur	*		user rate, octet 5a
extb5b1	*		extension bit, octet 5b1
ir	*		intermediate rate, octet 5b1
nictx	*		network independent clock on transmission, octet 5b1
nicrx	*		network independent clock on reception, octet 5b1
fctx	*		flow control on transmission, octet 5b1
fcrx	*		flow control on reception, octet 5b1
spb5b1	*		spare bit, '0'B, octet 5b1
extb5b2	*		extension bit, octet 5b2
hdrb	*		Hdr/no Hdr-bit, octet 5b2
mfs	*		Multi frame support, octet 5b2
mode	*		Mode, octet 5b2
llineg	*		LLI negotiation, octet 5b2
ass	*		Assignor/Assignee, octet 5b2
ibob	*		Inband/outband negotiation, octet 5b2
spb5b2	*		spare bit, '0'B, octet 5b2

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
extb5c	*		extension bit, octet 5c
nsb	*		number of stop bits, octet 5c
ndb	*		number of data bits, octet 5c
pi	*		parity information, octet 5c
extb5d	*		extension bit, '1'B, octet 5d
dplx	*		duplex mode, octet 5d
modemt	*		modem type, octet 5d
extb6	*		extension bit, octet 6
l2id	*		L2 identity, '10'B, octet 6
uil2	*		not checked
extb6a1	*		not checked
modl2	*		not checked
spb6a1	*		not checked
q933	*		not checked
extb6a2	*		not checked
usl2pi	*		not checked
extb6b	*		not checked
ws	*		not checked
extb7	*		not checked
l3id	*		not checked
uil3	*		not checked
extb7a1	*		not checked
modl3	*		not checked
spb7a1	*		not checked
extb7a2	*		not checked
usl3pi	*		not checked
extb7b	*		not checked
spb7b	*		not checked
dps	*		not checked
extb7c	*		not checked
pws	*		not checked
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Llcmp_NotApplicable
Structured Type : LLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE which is not applicable for a specific service (empty IE).

Element Name	Element Value	Element Encoding	Comments
iei	'01111100'B		'01111100'B
iel	'00'O		empty IE -> length is 0
extb3	-		extension bit, octet 3
cs	-		coding standard, octet 3
itc	-		information transfer capability, octet 3
extb3a	-		extension bit, '1'B, octet 3a
negind	-		negotiation indicator
spb3a	-		spare bits, '000000'B
extb4	-		extension bit, octet 4
tm	-		transfer mode
itr	-		information transfer rate, octet 4
extb4_1	-		extension bit, octet 4.1
rateml	-		not checked
extb5	-		extension bit, octet 5
l1id	-		L1 identity, '01'B, octet 5
uil1	-		user information L1 protocol, octet 5
extb5a	-		extension bit, octet 5a
sb	-		synchronous bit, octet 5a
neg	-		negotiation bit, octet 5a
ur	-		user rate, octet 5a
extb5b1	-		extension bit, octet 5b1
ir	-		intermediate rate, octet 5b1
nictx	-		network independent clock on transmission, octet 5b1
nicrx	-		network independent clock on reception, octet 5b1
fctx	-		flow control on transmission, octet 5b1
fcrx	-		flow control on reception, octet 5b1
spb5b1	-		spare bit, '0'B, octet 5b1
extb5b2	-		extension bit, octet 5b2
hdrb	-		Hdr/no Hdr-bit, octet 5b2
mfs	-		Multi frame support, octet 5b2
mode	-		Mode, octet 5b2
llineg	-		LLI negotiation, octet 5b2
ass	-		Assignor/Assignee, octet 5b2
ibob	-		Inband/outband negotiation, octet 5b2
spb5b2	-		spare bit, '0'B, octet 5b2

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
extb5c	–		extension bit, octet 5c
nsb	–		number of stop bits, octet 5c
ndb	–		number of data bits, octet 5c
pi	–		parity information, octet 5c
extb5d	–		extension bit, '1'B, octet 5d
dplxm	–		duplex mode, octet 5d
modemt	–		modem type, octet 5d
extb6	–		extension bit, octet 6
l2id	–		L2 identity, '10'B, octet 6
uil2	–		not checked
extb6a1	–		not checked
modl2	–		not checked
spb6a1	–		not checked
q933	–		not checked
extb6a2	–		not checked
usl2pi	–		not checked
extb6b	–		not checked
ws	–		not checked
extb7	–		not checked
l3id	–		not checked
uil3	–		not checked
extb7a1	–		not checked
modl3	–		not checked
spb7a1	–		not checked
extb7a2	–		not checked
usl3pi	–		not checked
extb7b	–		not checked
spb7b	–		not checked
dps	–		not checked
extb7c	–		not checked
pws	–		not checked
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS2xOrBS4x_UDI
Structured Type : LLCMP
Derivation Path :
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.2.1 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iei	'01111100'B		'01111100'B
iel	('06'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		at least 6 OCTETs
extb3	'?'B		extension bit , octet 3
cs	'00'B		CCITT standardized coding
itc	'01000'B		unrestricted digital information
extb3a	'1'B IF_PRESENT		extension bit, '1'B, octet 3a
negind	*		negotiation indicator
spb3a	'000000'B IF_PRESENT		spare bits, '000000'B
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb4_1	–		not presented
rateml	–		not presented
extb5	'0'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	'00001'B		V.110/X.30 rate adaption
extb5a	'0'B		extension bit, octet 5a
sb	'1'B		asynchronous
neg	'0'B		negotiation not possible
ur	('00010'B, '00011'B, '00101'B, '01000'B, '10111'B, '11110'B)		1.2, 2.4, 4.8, 9.6, 0.075/1.2, 0.3 kbit/s
extb5b1	'0'B		extension bit, octet 5b1
ir	('01'B, '10'B)		8, 16 kbit/s
nictx	'?'B		not relevant
nicrx	'?'B		not relevant
fctx	'0'B		not required
fcrx	'0'B		cannot accept data with flow control
spb5b1	'0'B		spare bit
extb5b2	–		extension bit, octet 5b2
hdrb	–		Hdr/no Hdr-bit, octet 5b2
mfs	–		Multi frame support, octet 5b2
mode	–		Mode, octet 5b2
llineg	–		LLI negotiation, octet 5b2
ass	–		Assignor/Assignee, octet 5b2
ibob	–		Inband/outband negotiation, octet 5b2
spb5b2	–		spare bit, '0'B, octet 5b2
extb5c	'?'B		extension bit, octet 5c

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Structured Type Constraint Declaration			
Element Name	Element Value	Element Encoding	Comments
nsb	('01'B, '11'B)		1, 2 bits
ndb	('10'B, '11'B)		7, 8 bits
pi	('000'B, '010'B, '011'B, '100'B, '101'B)		odd, even, none, forced to 0, forced to 1
extb5d	'1'B IF_PRESENT		extension bit, octet 5d
dplx	*		half or full duplex
modemt	*		not relevant
extb6	*		extension bit, octet 6
l2id	*		L2 identity, '10'B, octet 6
uil2	*		not checked
extb6a1	*		not checked
modl2	*		not checked
spb6a1	*		not checked
q933	*		not checked
extb6a2	*		not checked
usl2pi	*		not checked
extb6b	*		not checked
ws	*		not checked
extb7	*		not checked
l3id	*		not checked
uil3	*		not checked
extb7a1	*		not checked
modl3	*		not checked
spb7a1	*		not checked
extb7a2	*		not checked
usl3pi	*		not checked
extb7b	*		not checked
spb7b	*		not checked
dps	*		not checked
extb7c	*		not checked
pws	*		not checked
Detailed Comments : Corresponding to the Bearer Services 21 ... 26, 41 ... 46 Unrestrict digital information transfer capability.			

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS2xOrBS61aOrBS81a_3100
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.2.2 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('07'O,'08'O,'09'O,'0A'O,'0B'O,'0C'O,'0D'O,'0E'O)		at least 7 OCTETs
extb3	'?'B		extension bit , octet 3
cs	'00'B		CCITT standardized coding
itc	'10000'B		3.1kHz audio
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'0'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	'00011'B		G.711 A-law
extb5a	'0'B		can not be omitted in order to have 5d
sb	?		not checked
neg	?		not checked
ur	?		not checked
extb5b1	'0'B		can not be omitted in order to have 5d
ir	?		not checked
nictx	?		not checked
nicrx	?		not checked
fctx	?		not checked
fcrx	?		not checked
spb5b1	'0'B		not checked
extb5c	'0'B		can not be omitted in order to have 5d
nsb	?		not checked
ndb	?		not checked
pi	?		not checked
extb5d	'1'B		extension bit, octet 5d
dplxm	?		half or full duplex
modemt	('010001'B,'010010'B,'010011'B,'010100'B,'010111'B,'011100'B)		V.21, V.22, V.22bis, V.23, V.26ter, V.32

Detailed Comments : Corresponding to the Bearer Services 21 ... 26, 61 Asynchronous or 81 Asynchronous 3.1 kHz audio ex-PLMN information transfer capability.

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS3x_UDI
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.3.1 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('05'O,'06'O,'07'O,'08'O,'09'O,'0A'O,'0B'O,'0C'O,'0D'O,'0E'O)		at least 5 OCTETs
extb3	'?'B		extension bit, octet 3
cs	'00'B		CCITT standardized coding
itc	'01000'B		unrestricted digital information
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'0'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	('00001'B,'01001'B)		V.100/X.30 rate adaption or X.31 flag stuffing
extb5a	'0'B		extension bit, octet 5a
sb	'0'B		synchronous
neg	'0'B		negotiation not possible
ur	('00010'B,'00011'B,'00101'B,'01000'B)		1.2, 2.4, 4.8, 9.6 kbit/s
extb5b1	'?'B		extension bit, octet 5b1
ir	('01'B,'10'B)		8, 16 kbit/s
nictx	'?'B		not checked
nicrx	'?'B		not checked
fctx	'?'B		not relevant
fcrx	'?'B		not relevant
spb5b1	'0'B		spare bit
extb5c	'0'B IF_PRESENT		extension bit, octet 5c
nsb	*		any or omit
ndb	*		any or omit
pi	*		any or omit
extb5d	'1'B IF_PRESENT		extension bit, octet 5d
dplx	*		duplex mode
modemt	*		not relevant
extb6	*		extension bit, octet 6
l2id	'10'B IF_PRESENT		L2 identity, '10'B, octet 6
uil2	('00110'B,'00111'B) IF_PRESENT		X.25 link layer or X.25 Multilink
extb7	*		extension bit, octet 7
l3id	'11'B IF_PRESENT		L3 identity, '11'B, octet 7
uil3	('00110'B,'00111'B) IF_PRESENT		X.25 packet layer, or X.25 packet level protocol for data terminal

Detailed Comments : Corresponding to the Bearer Services 31 ... 34 unrestricted digital information transfer capability.

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS3xOrBS61sOrBS81s_3100
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.3.2 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('03'O, '04'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		at least 3 OCTETs
extb3	'?'B		extension bit , octet 3
cs	'00'B		CCITT standardized coding
itc	'10000'B		3.1kHz audio
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'?'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	'00011'B		G.711 A-law
extb5a	'0'B IF_PRESENT		extension bit, octet 5a
sb	*		any or omit
neg	*		any or omit
ur	*		any or omit
extb5b1	*		any or omit
ir	*		any or omit
nictx	*		any or omit
nicrx	*		any or omit
fctx	*		any or omit
fcrx	*		any or omit
spb5b1	*		any or omit
extb5c	'0'B IF_PRESENT		extension bit, octet 5c
nsb	*		any or omit
ndb	*		any or omit
pi	*		any or omit
extb5d	'1'B IF_PRESENT		extension bit, octet 5d
dplx	*		duplex mode
modemt	('010010'B, '010011'B, '010111'B, '011100'B) IF_PRESENT		V.22, V.22bis, V.26ter, V.32
extb6	*		extension bit, octet 6
l2id	'10'B IF_PRESENT		L2 identity, '10'B, octet 6
uil2	('00110'B, '00111'B) IF_PRESENT		X.25 link layer or X.25 Multilink
extb7	*		extension bit, octet 7
l3id	'11'B IF_PRESENT		L3 identity, '11'B, octet 7
uil3	('00110'B, '00111'B) IF_PRESENT		X.25 packet layer, or X.25 packet level protocol for data terminal

Detailed Comments : Corresponding to the Bearer Services 31 ... 34, 61 Synchronous or 81 Synchronous 3.1kHz audio information transfer capability.

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS5x
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.5.1 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('06'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		at least 6 OCTETs
extb3	'?'B		extension bit, octet 3
cs	'00'B		CCITT standardized coding
itc	'01000'B		unrestricted digital information
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'0'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	'01001'B		X.31 flag stuffing
extb5a	'?'B		extension bit, octet 5a
sb	'0'B		synchronous
neg	'0'B		negotiation not possible
ur	('00011'B, '00101'B, '01000'B)		2.4, 4.8, 9.6 kbit/s
extb5b1	*		extension bit, octet 5b1
ir	*		not checked
nictx	*		not checked
nicrx	*		not checked
fctx	*		not checked
fcrx	*		not checked
spb5b1	*		not checked
extb5c	*		not checked
nsb	*		not checked
ndb	*		not checked
pi	*		not checked
extb5d	*		not checked
dplxmx	*		not checked
modemt	*		not checked
extb6	?		extension bit, octet 6
l2id	'10'B		L2 identity, '10'B, octet 6
uil2	('00110'B, '00111'B)		X.25 link layer or X.25 Multilink
extb7	?		extension bit, octet 7
l3id	'11'B		L3 identity, '11'B, octet 7
uil3	('00110'B, '00111'B)		X.25 packet layer, or X.25 packet level protocol for data terminal

Detailed Comments : Corresponding to the Bearer Services 51 ... 53 unrestricted digital information transfer capability.

Structured Type Constraint Declaration			
Constraint Name : LocAreald(mcc, mnc, lac : OCTETSTRING) Structured Type : LAI Derivation Path : Encoding Variation : Comments : Cell A default value for L3 test			
Element Name	Element Value	Element Encoding	Comments
iei	–		not used in SI3
mcc	mcc		mobile country code
mnc	mnc		mobile network code
lac	lac		location area code, Cell A
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : LocUpType(locup : B_2) Structured Type : LUT Derivation Path : Encoding Variation : Comments : location updating type			
Element Name	Element Value	Element Encoding	Comments
foreq	?		
sprb	'0'B		spare bit '0'B
lut	locup		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Ma1_g06 Structured Type : MA Derivation Path : Encoding Variation : Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	'08'O		hopping
mac_8n	'11111111'B		
mac_7n	'10000000'B		
mac_6n	'00000000'B		
mac_5n	'00000000'B		
mac_4n	'00000000'B		
mac_3n	'00000000'B		
mac_2n	'00011111'B		
mac_1n	'00000000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Ma2_g06			
Structured Type : MA			
Derivation Path :			
Encoding Variation :			
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00011010'B		
mac_7n	'10100000'B		
mac_6n	'00000000'B		
mac_5n	'00011100'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Ma3_g06			
Structured Type : MA			
Derivation Path :			
Encoding Variation :			
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001111'B		
mac_7n	'00001011'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Milmsi_01			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : the TSPX_IMSI is the IMSI of the MS under test			
Element Name	Element Value	Element Encoding	Comments
iei	–		IMSI is used
iel	OC_IntToOct(((LENGTH_OF(TSPX_IMSI))/ 2 + 1),1)		
idigit_1	OC_FirstDigi(TSPX_IMSI)		
oei	OC_OeBit(TSPX_IMSI)		
toi	'001'B		
idigits_other	OC_OtherDigi(TSPX_IMSI)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Milmsi_01iei			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : the TSPX_IMSI is the IMSI of the MS under test			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		IMSI is used
iel	OC_IntToOct(((LENGTH_OF(TSPX_IMSI))/ 2 + 1),1)		
idigit_1	OC_FirstDigi(TSPX_IMSI)		
oei	OC_OeBit(TSPX_IMSI)		
toi	'001'B		
idigits_other	OC_OtherDigi(TSPX_IMSI)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Milmsi_02			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : This constraint is used in paging filling message. No mobile is paged (Type of identity is set to '000'B, i.e. no identity).			
Element Name	Element Value	Element Encoding	Comments
iei	–		no identity
iel	'01'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'000'B		
idigits_other	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Milmsi_31iei			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : An another IMSI differing from Milmsi_01for RR testing, which is shorter than the maximum length.			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		odd IMSI is used 4 octets
iel	'05'O		
idigit_1	'0000'B		
oei	'1'B		
toi	'001'B		
idigits_other	'10102143'O		
Detailed Comments : IMSI has 9 digits: '00 10 11 23 4'. The iei appears in the messages, e.g. location updating accept.			

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_01 Structured Type : MI Derivation Path : Encoding Variation : Comments : default TMSI for testing.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'100'B		TMSI is used
idigits_other	TSPX_TMSI		4 octets long
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_01iei Structured Type : MI Derivation Path : Encoding Variation : Comments : default TMSI for testing.			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'100'B		TMSI is used
idigits_other	TSPX_TMSI		4 octets long
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_02iei Structured Type : MI Derivation Path : Encoding Variation : Comments : A new TMSI			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'100'B		TMSI is used
idigits_other	TSPX_TMSI1		new TMSI
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_r01			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : A TMSI differs from MiTmsi_01			
Element Name	Element Value	Element Encoding	Comments
iei	–		TMSI is used 4 octets long
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'100'B		
idigits_other	OC_IncTmsi(TSPX_TMSI, '01'O)		
Detailed Comments : Note: the TSPX_TMSI + '01'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_r02iei			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : default TMSI for testing with toi setting to no id.			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		no identity 4 octets long
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'000'B		
idigits_other	TSPX_TMSI		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MoblAllc_01			
Structured Type : MA			
Derivation Path :			
Encoding Variation :			
Comments : non hopping			
Element Name	Element Value	Element Encoding	Comments
iei	–		non hopping
iel	'00'O		
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MoblAllc_281			
Structured Type : MA			
Derivation Path :			
Encoding Variation :			
Comments : hopping with indicates to the ARFCN_list={73,74,75} of cell allocation A.			
Element Name	Element Value	Element Encoding	Comments
iei	–		MoblAllc_281d
iel	'03'O		
mac_8n	'00000000'B		
mac_7n	'00111000'B		
mac_6n	'00000000'B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MoblAllc_281d Structured Type : MA Derivation Path : Encoding Variation : Comments : hopping with indicates to the ARFCN_list={773,775,779} of cell allocation A.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	'03'O		
mac_8n	'00000000'B		
mac_7n	'00000111'B		
mac_6n	'00000000'B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MoblAllc_omit Structured Type : MA Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : MoblAllc_r01			
Structured Type : MA			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		
iel	'02'O		
mac_8n	'00000011'B		
mac_7n	'11111011'B		
mac_6n	—		
mac_5n	—		
mac_4n	—		
mac_3n	—		
mac_2n	—		
mac_1n	—		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : MsrResult_02

Structured Type : MSRR

Derivation Path :

Encoding Variation :

Comments : A measurement results IE matching any value.

Element Name	Element Value	Element Encoding	Comments
ba_used	?		
dtx_used	'0'B		dtx was not used
rxlev_fsc	?		
spr1	'0'B		spare bit
meas_valid	?		measurement results valid
rxlev_ssc	?		
spr2	'0'B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	?		no result
rxlev_nc1	*		received signal strength on nc1
bcchfrq_nc1	*		bcch frequency position of nc1
bsic_nc1	*		base station identity code of nc1
rxlev_nc2	*		received signal strength on nc2
bcchfrq_nc2	*		bcch frequency position of nc2
bsic_nc2	*		base station identity code of nc2
rxlev_nc3	*		received signal strength on nc3
bcchfrq_nc3	*		bcch frequency position of nc3
bsic_nc3	*		base station identity code of nc3
rxlev_nc4	*		received signal strength on nc4
bcchfrq_nc4	*		bcch frequency position of nc4
bsic_nc4	*		base station identity code of nc4
rxlev_nc5	*		received signal strength on nc5
bcchfrq_nc5	*		bcch frequency position of nc5
bsic_nc5	*		base station identity code nc5
rxlev_nc6	*		received signal strength on nc6
bcchfrq_nc6	*		bcch frequency position of nc6
bsic_nc6	*		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results.

Element Name	Element Value	Element Encoding	Comments
ba_used	'1'B		
dtx_used	'0'B		dtx was not used
rxlev_fsc	?		
spr1	'0'B		spare bit
meas_valid	'0'B		measurement results valid
rxlev_ssc	?		
spr2	'0'B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	'110'B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	?		bcch frequency position of nc1
bsic_nc1	?		base station identity code of nc1
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	?		bcch frequency position of nc2
bsic_nc2	?		base station identity code of nc2
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	?		bcch frequency position of nc3
bsic_nc3	?		base station identity code of nc3
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	?		bcch frequency position of nc4
bsic_nc4	?		base station identity code of nc4
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	?		bcch frequency position of nc5
bsic_nc5	?		base station identity code nc5
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	?		bcch frequency position of nc6
bsic_nc6	?		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : NT_BothT_BothNTorT_BothT_BothNT Structured Type : CE Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
TorBothTorBothNT	('00'B, '10'B, '11'B)		
NTorBothTorBothNT	('01'B, '10'B, '11'B)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : NTRestOctets_01 (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) Structured Type : NTNRO Derivation Path : Encoding Variation : Comments : Notification NCH rest octete with channel decsription			
Element Name	Element Value	Element Encoding	Comments
nlni	'0'B		nln indicator
nln	–		notification list number optional
lgcii1	'1'B		group call information indicator
gci1	GroupCallInfo_01 (gcref, asci_sf , chDescr)		group call information
lgcii2	'0'B		group call information indicator
gci2	–		group call information
lgcii3	–		group call information indicator
gci3	–		group call information
spb	'101'B		spare bits, optional
spd	'2B2B2B2B2B2B2B'O		'2B..2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : NTRestOctets_02 Structured Type : NTNRO Derivation Path : Encoding Variation : Comments : Notification NCH rest octets without channel description			
Element Name	Element Value	Element Encoding	Comments
nlni	'0'B		nln indicator
nln	–		notification list number optional
lgcii1	'0'B		group call information indicator
gci1	–		group call information
lgcii2	–		group call information indicator
gci2	–		group call information
lgcii3	–		group call information indicator
gci3	–		group call information
spb	'01'B		spare bits, optional
spd	'2B2B2B2B2B2B2B2B2B2B2B2B'O		'2B..2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : NTRestOctets_chDescr_nln (gcref : B_27; asci_sf : B_1 ; chDescr : CHD ; nln : B_2) Structured Type : NTNRO Derivation Path : Encoding Variation : Comments : Notification NCH rest octete with channel description			
Element Name	Element Value	Element Encoding	Comments
nlni	'0'B		nln indicator
nln	nln		notification list number optional
lgcii1	'1'B		group call information indicator
gci1	GroupCallInfo_01 (gcref, asci_sf , chDescr)		group call information
lgcii2	'0'B		group call information indicator
gci2	–		group call information
lgcii3	–		group call information indicator
gci3	–		group call information
spb	'1'B		spare bits, optional
spd	'2B2B2B2B2B2B2B2B'O		'2B..2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : OriginatorInd_MS Structured Type : OIND Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spr	'000'B		spare
oi	'1'B		MS Originator of the call
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : OriginatorInd_SS Structured Type : OIND Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
spr	'000'B		spare
oi	'0'B		SS Originator of the call
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : P1RestOctets_GCI (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) Structured Type : P1RO Derivation Path : Encoding Variation : Comments : PAGING REQUEST rest octets containing group call information			
Element Name	Element Value	Element Encoding	Comments
nlni	'0'B		L
nln	–		
nlns	–		
pi1	'0'B		L
priority1	–		
pi2	'1'B		L
priority2	–		
gcii	'1'B		H
gci	GroupCallInfo_03 (gcref, asci_sf , chDescr)		
ppi1	'1'B		L
ppi2	'0'B		L
spb	'1101'B		spare bits, optional
spd	'2B2B2B2B'O		'2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : P1RestOctets_GCI_NoChDescr (gcref : B_27; asci_sf : B_1) Structured Type : P1RO Derivation Path : Encoding Variation : Comments : PAGING REQUEST rest octets containing group call information.			
Element Name	Element Value	Element Encoding	Comments
nlni	'0'B		L
nln	–		
nlns	–		
pi1	'0'B		L
priority1	–		
pi2	'1'B		L
priority2	–		
gcii	'1'B		H
gci	GroupCallInfo_04 (gcref, asci_sf)		
ppi1	'1'B		L
ppi2	'0'B		L
spb	'1101'B		spare bits, optional
spd	'2B2B2B2B2B2B2B'O		'2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : P1RestOctets_PCH (nln : B_2) Structured Type : P1RO Derivation Path : Encoding Variation : Comments : PAGING REQUEST rest octets indicating notification on NCH			
Element Name	Element Value	Element Encoding	Comments
nlni	'1'B		H
nln	nln		NLN VALUE
nlns	'0'B		nln status
pi1	'1'B		L
priority1	–		
pi2	'1'B		L
priority2	–		
gcii	'0'B		L
gci	–		
ppi1	'1'B		L
ppi2	'0'B		L
spb	'0101101'B		spare bits, optional
spd	'2B2B2B2B2B2B2B2B2B'O		'2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : P1RestOctets_eMLP (priority : B_3) Structured Type : P1RO Derivation Path : Encoding Variation : Comments : PAGING REQUEST rest octets indicating priority			
Element Name	Element Value	Element Encoding	Comments
nlni	'0'B		L
nln	–		
nlns	–		
pi1	'1'B		H
priority1	priority		
pi2	'1'B		L
priority2	–		
gcii	'0'B		L
gci	–		
ppi1	'1'B		L
ppi2	'0'B		L
spb	'0101101'B		spare bits, optional
spd	'2B2B2B2B2B2B2B2B2B2B2B'O		'2B'O padding, optional
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : P2RestOctets_PCH (nln : B_2) Structured Type : P2RO Derivation Path : Encoding Variation : Comments : Paging 2 rest octets with the NLN included.			
Element Name	Element Value	Element Encoding	Comments
cn3i	'0'B		L
cn3	–		
nlni	'1'B		H
nln	nln		nln value
nlns	'0'B		
pi1	'1'B		L
priority1	–		
pi2	'0'B		L
priority2	–		
pi3	'1'B		L indicator3
priority3	–		
ppi3	'0'B		L
spb	'0101101'B		
spd	'2B2B2B2B2B2B2B2B2B'O		'2B'O padding, optional
Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position. 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).			

Structured Type Constraint Declaration

Constraint Name : P2RestOctets_PCH_eMLPP (priority : B_3)

Structured Type : P2RO

Derivation Path :

Encoding Variation :

Comments : Paging 2 rest octets with the NLN included.

Element Name	Element Value	Element Encoding	Comments
cn3i	'0'B		L
cn3	–		
nlni	'0'B		L
nlh	–		
nlhs	–		
pi1	'0'B		H
priority1	priority		
pi2	'0'B		L
priority2	–		
pi3	'1'B		L
priority3	–		
ppi3	'0'B		L
spb	'0101101'B		
spd	'2B2B2B2B2B2B2B2B'O		'2B'O padding, optional

Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position.
 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).

Structured Type Constraint Declaration

Constraint Name : P3RestOctets_PCH (nIn : B_2)
Structured Type : P3RO
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
cni	'0'B		L
cn3	–		
cn4	–		
nIni	'1'B		H
nIn	nIn		notification list number, optional
nIns	'0'B		nIn status
pi1	'1'B		L
priority1	–		
pi2	'0'B		L
priority2	–		
pi3	'1'B		L
priority3	–		
pi4	'0'B		L
priority4	–		
spb	'0101101'B		spare bits, optional
spd	'2B'O		'2B2B'O padding, optional

Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position.
 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).

Structured Type Constraint Declaration			
Constraint Name : P3RestOctets_PCH_eMLPP (priority : B_3) Structured Type : P3RO Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
cni	'0'B		L
cn3	–		
cn4	–		
nlni	'0'B		L
nln	–		
nlns	–		
pi1	'0'B		H
priority1	priority		
pi2	'0'B		L
priority2	–		
pi3	'1'B		L
priority3	–		
pi4	'0'B		L
priority4	–		
spb	'0101101'B		spare bits, optional
spd	'2B'O		'2B2B'O padding, optional
Detailed Comments : 1. Spare bits spb are constituted of spare L (GSM 04.07, B.1.2.2). The padding sequence is '0010 1011'B. The bit value is corresponding to the padding spare bit for that position. 2. Spare padding octets are a sequence of '2B'O. The total spare padding consists of the fields spb and spd (GSM 04.07, B.1.3).			

Structured Type Constraint Declaration			
Constraint Name : Pcmd_19(powerlevel:BITSTRING) Structured Type : PCMD Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
sprb	'000'B		spare bits
pl	powerlevel		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Pcmd_20(powerlevel : B_5)			
Structured Type : PCMD			
Derivation Path :			
Encoding Variation :			
Comments : PowerCmd used in synchronized and non synchronized HO cases.			
Element Name	Element Value	Element Encoding	Comments
sprb	'011'B		spare bits
pl	powerlevel		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Pm(pgm : B_2) Structured Type : PM Derivation Path : Encoding Variation : Comments : normal paging mode			
Element Name	Element Value	Element Encoding	Comments
sprb	'00'B		spare bits
pgm	pgm		page mode
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Priority_endlpp (pr : B_3) Structured Type : PRT Derivation Path : Encoding Variation : Comments : Priority			
Element Name	Element Value	Element Encoding	Comments
pliei	'1000'B		priority iei
sp	'0'B		spare
cp	pr		call priority
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : ProgInd_omit Structured Type : PI Derivation Path : Encoding Variation : Comments : Omitted Progress Indicator.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'00011110'B
iel	–		
extb3	–		extension bit ('0'B)
cs	–		coding standard
spb	–		arbitrary spare bit
loc	–		location
extb4	–		extension bit ('0'B)
prd	–		progress description
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : RachCntrlPara(maxtx : B_2; txint : B_4; re : B_1) Structured Type : RACHCP Derivation Path : Encoding Variation : Comments : Default value for L 3 testing.			
Element Name	Element Value	Element Encoding	Comments
maxrx	maxtx		
txint	txint		
cba	'0'B		not barred
re	re		
acc_2	'00000'B		access not barred
ec	'0'B		emergency call allowed
acc_1	'0000000000'B		access not barred
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : RachCntrlPara_r01 Structured Type : RACHCP Derivation Path : Encoding Variation : Comments : Call reestablishment is not allowed in the cell.			
Element Name	Element Value	Element Encoding	Comments
maxrtx	'00'B		Max-retrans = 1
txint	'0010'B		TX-integer=5
cba	'0'B		not barred
re	'1'B		no reestablishment
acc_2	'00000'B		access not barred
ec	'0'B		emergency call allowed
acc_1	'0000000000'B		access not barred
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SI1RestOctetDef Structured Type : SI1RO Derivation Path : Encoding Variation : Comments : Default value for L3 testing.			
Element Name	Element Value	Element Encoding	Comments
nchi	'0'B		
nchp	–		
spb	'0101011'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SI1RestOctet_asciDef (nch_pos : B_5) Structured Type : SI1RO Derivation Path : Encoding Variation : Comments : default value for ASCII testing			
Element Name	Element Value	Element Encoding	Comments
nchi	'1'B		
nchp	nch_pos		
spb	'01'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SI3RestOctetDef Structured Type : SI3RO Derivation Path : Encoding Variation : Comments : Default value for L3 testing.			
Element Name	Element Value	Element Encoding	Comments
pi	'0'B		L
cbq	—		
cro	—		
to	—		
pt	—		
poi	'0'B		L
po	—		
si2ti	'1'B		L
ecsc	'0'B		L
si9i	'1'B		L
where	—		
gprsi	—		
racolour	—		
si13p	—		SI13 position O
spb	'011'B		
spd	'2B2B2B'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SI4RestOctetDef_ascii Structured Type : SI4RO Derivation Path : Encoding Variation : Comments : Default value for L3 testing.			
Element Name	Element Value	Element Encoding	Comments
pi	'1'B		H
cbq	'0'B		O
cro	'000000'B		O
to	'000'B		O
pt	'11111'B		31
poi	'1'B		H
po	'00'B		O
gprsi	'0'B		L
racolour	—		
si13p	—		SI13 position O
spb	'1011'B		
spd	'2B2B2B2B2B2B'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SI4RestOctetDef			
Structured Type : SI4RO			
Derivation Path :			
Encoding Variation :			
Comments : Default value for L3 testing.			
Element Name	Element Value	Element Encoding	Comments
pi	'0'B		SI13 position O
cbq	—		
cro	—		
to	—		
pt	—		
poi	'0'B		
po	—		
gprsi	'1'B		
racolour	—		
si13p	—		
spb	'01011'B		
spd	'2B2B2B2B2B2B2B2B'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : SI4RestOctet_CBMS			
Structured Type : SI4RO			
Derivation Path : SI4RestOctetDef.			
Encoding Variation :			
Comments : Rest octets for SMSCB SysInf4 message.			
Element Name	Element Value	Element Encoding	Comments
spd	'2B2B2B2B2B'O		
Detailed Comments :			

Structured Type Constraint Declaration				
Constraint Name : SI6RestOctetDef				
Structured Type : SI6RO				
Derivation Path :				
Encoding Variation :				
Comments : Default value for L3 testing.				
Element Name	Element Value	Element Encoding	Comments	
pchnchi	'0'B		L	
pchrestr	–			
nln_saccch	–			
cp	'0'B			
call_priority	–			
nlns	–			
vbs_vgcsi	'0'B		H	
inband_notification	'0'B			no inband notification
inband_paging	'0'B			no inband paging
spb	'101'B			
spd	'2B2B2B2B2B2B'O			
Detailed Comments : 7 octets				

Structured Type Constraint Declaration			
Constraint Name : SI6RestOctet_nln (nln_sacch : B_2; nlns:B_1)			
Structured Type : SI6RO			
Derivation Path :			
Encoding Variation :			
Comments : Default value for L3 testing.			
Element Name	Element Value	Element Encoding	Comments
pchnchi	'1'B		H (not restructured) <

Structured Type Constraint Declaration			
Constraint Name : SI6RestOctet_noInbPag			
Structured Type : SI6RO			
Derivation Path :			
Encoding Variation :			
Comments : Indicating no inband paging on FACCH.			
Element Name	Element Value	Element Encoding	Comments
pchnchi	'0'B		L
pchrestr	–		
nIn_saccch	–		
cp	'0'B		
call_priority	–		
nIns	–		
vbs_vgcsi	'0'B		H
inband_notification	'1'B		H
inband_paging	'0'B		no inband paging
spb	'101'B		
spd	'2B2B2B2B2B2B'O		
Detailed Comments : 7 octets			

Structured Type Constraint Declaration

Constraint Name	: SI10RestOctetNoInfo
Structured Type	: SI10RO
Derivation Path	:
Encoding Variation	:
Comments	: Default value for L3 testing.

Element Name	Element Value	Element Encoding	Comments
bai	'0'B		BA indicator M
sni	'0'B		implicit spare or neighbour information indication M
ff	-		first frequency O
bsic	-		bsic O
cpi	-		cell parameters indicator O
cbi	-		cell bared / further cell info indicator O
crhi	-		cell reselect hysteresis indicator O
crh	-		cell reselect hysteresis O
mtmc	-		ms txpwr max cch O
ram	-		rxlev access min O
cro	-		cell reselect offset O
to	-		temporary offset O
pt	-		penalty time O
ifi1	-		info field indicator 1 O
if1	-		information fird 1 O
ifi2	-		info field indicator 2 O
if2	-		information fird 2 O
ifi3	-		info field indicator 3 O
if3	-		information fird 3 O
ifi4	-		info field indicator 4 O
if4	-		information fird 4 O
ifi5	-		info field indicator 5 O
if5	-		information fird 5 O
ifi6	-		info field indicator 6 O
if6	-		information fird 6 O
ifi7	-		info field indicator 7 O
if7	-		information fird 7 O
ifi8	-		info field indicator 8 O
if8	-		information fird 8 O
spb	'101011'B		spare bits, O
spd	'2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'0		'2B..2B'O padding, O

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

Structured Type Constraint Declaration			
Constraint Name : StateAttribute (da, ua, comm, oi : B_1) Structured Type : STA Derivation Path : Encoding Variation : Comments : State attributes GSM 04.68, 9.4.6			
Element Name	Element Value	Element Encoding	Comments
type	'1011'B		i.e. type
da	da		spare bit M BITSTRING[1]
ua	ua		DA M BITSTRING[1]
comm	comm		UA M BITSTRING[1]
oi	oi		OI M BITSTRING[1]
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : RelTmdDif_omit Structured Type : TDIF Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
value	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Rqr2(Rr: BITSTRING; Fn: FN) Structured Type : RQR Derivation Path : Encoding Variation : Comments : To address the MS under test			
Element Name	Element Value	Element Encoding	Comments
ra	Rr		
fn	Fn		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Signal_01 Structured Type : SIGNAL Derivation Path : Encoding Variation : Comments : signal value is arbitrarily selected.			
Element Name	Element Value	Element Encoding	Comments
iei	'00110100'B		
sigv	'00000000'B		dial tone on
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Signal_02 Structured Type : SIGNAL Derivation Path : Encoding Variation : Comments : Signal IE with value #7 "call waiting tone on"			
Element Name	Element Value	Element Encoding	Comments
iei	'00110100'B		
sigv	'00000111'B		call waiting tone on
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Signal_Omit Structured Type : SIGNAL Derivation Path : Encoding Variation : Comments : Omitted Signal IE			
Element Name	Element Value	Element Encoding	Comments
iei	–		
sigv	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : StartingTm_01(fn : FN) Structured Type : STRT Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'01111100'B		
fn	fn		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : StartingTm_omit Structured Type : STRT Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
fn	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Synchi_omit Structured Type : SYNCHI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
nci	–		
rot	–		
si	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Synchi(rot : B_1; si : B_2)			
Structured Type : SYNCHI			
Derivation Path :			
Encoding Variation :			
Comments :			
Element Name	Element Value	Element Encoding	Comments
iei	'1100'B		ignore out of range TA report observed time difference synchronisation type
nci	'0'B		
rot	rot		
si	si		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : TimingAdv(bits : INTEGER)			
Structured Type : TA			
Derivation Path :			
Encoding Variation :			
Comments : Time Advance value is pameterized.			
Element Name	Element Value	Element Encoding	Comments
iei	–		spare bits one unit = 48/13 microseconds (in 1 bit periods)
sprb	'00'B		
value	INT_TO_BIT(bits, 6)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : TimingAdv_omit Structured Type : TA Derivation Path : Encoding Variation : Comments : Time Advance value is pameterized.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	–		
value	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : TI_01			
Structured Type : TI			
Derivation Path :			
Encoding Variation :			
Comments : used by the MS in the transaction initiated by the test system.			
Element Name	Element Value	Element Encoding	Comments
ti_f	'1'B		TI value
ti_v	'000'B		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : TI_02 Structured Type : TI Derivation Path : Encoding Variation : Comments : used in the messages sent to the MS in the transaction initiated by test system.			
Element Name	Element Value	Element Encoding	Comments
ti_f	'0'B		from network to MS
ti_v	'000'B		TI value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : TI_09			
Structured Type : TI			
Derivation Path :			
Encoding Variation :			
Comments : used by the MS in the transaction initiated by the MS.			
Element Name	Element Value	Element Encoding	Comments
ti_f	'0'B		TI value is selected by the MS when it starts the transaction
ti_v	?		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : TI_10 (ti : TI_V) Structured Type : TI Derivation Path : Encoding Variation : Comments : used in the messages sent by the MS			
Element Name	Element Value	Element Encoding	Comments
ti_f ti_v	? ti		TI value is selected by the MS when it starts the transaction
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_01 Structured Type : TMSI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– TSPX_TMSI		default TMSI for testing
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r01 Structured Type : TMSI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '01'O)		not address the MS under test
Detailed Comments : Note: the TSPX_TMSI + '01'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r03 Structured Type : TMSI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '02'O)		
Detailed Comments : Note: the TSPX_TMSI + '02'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r04 Structured Type : TMSI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '03'O)		
Detailed Comments : Note: the TSPX_TMSI + '03'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r05 Structured Type : TMSI Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '04'O)		
Detailed Comments : Note: the TSPX_TMSI + '04'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : UnknownIE_01			
Structured Type : UNKWN			
Derivation Path :			
Encoding Variation :			
Comments : An invalid IE coded as comprehension required .			
Element Name	Element Value	Element Encoding	Comments
iei	'00000000'B		length = 1 arbitrary contents
iel	'01'O		
contents	'54'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : UnknownIE_03			
Structured Type : UNKWN			
Derivation Path :			
Encoding Variation :			
Comments : An invalid FIE coded as unknown IE.			
Element Name	Element Value	Element Encoding	Comments
iei	'11101001'B		length = 1 arbitrary contents
iel	'01'O		
contents	'FF'O		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : UuInfo			
Structured Type : UU			
Derivation Path :			
Encoding Variation :			
Comments : Delete previously submitted short message			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		'01111110'B
iel	OC_IntToOct(1+ LENGTH_OF(TSPX_UuInfo , 1)		
uupd	TSPX_Uupd		
uui	TSPX_UuInfo		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : V22bisOrV26ter Structured Type : MODEMTYPE Derivation Path : Encoding Variation : Comments :			
Element Name	Element Value	Element Encoding	Comments
V22bisOrV26ter	('00011'B, '00101'B)		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Vgcstmi_omit Structured Type : VGCSTMI Derivation Path : Encoding Variation : Comments : Omitted VGCS tmi			
Element Name	Element Value	Element Encoding	Comments
iei	–		
tmod	–		
gckn	–		
spr	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Vgcstmi_01 Structured Type : VGCSTMI Derivation Path : Encoding Variation : Comments : VGCS tmi, Group transmit mode, no ciphering.			
Element Name	Element Value	Element Encoding	Comments
iei	'00000001'B		'01'O
tmod	'01'B		Group transmit mode
gckn	'0000'B		no ciphering
spr	'11'B		Spare bits '11'B
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Vgcstmi_02			
Structured Type : VGCSTMI			
Derivation Path :			
Encoding Variation :			
Comments : VGCS tmi, dedicated mode, no ciphering.			
Element Name	Element Value	Element Encoding	Comments
iei	'00000001'B		'01'O
tmod	'00'B		dedicated mode
gckn	'0000'B		no ciphering
spr	'11'B		Spare bits '11'B
Detailed Comments :			

ASN.1 Type Constraint Declaration	
Constraint Name : ProcessUSSDReq_Inv (ussdString: IA5String)	
ASN1 Type : Component	
Derivation Path :	
Encoding Variation :	
Comments :	
Constraint Value	
<pre>invoke { invokeID ?, operation localValue 59, arg_registerSS OMIT, arg_eraseSS OMIT, arg_activateSS OMIT, arg_deactivateSS OMIT, arg_interrogateSS OMIT, arg_notifySS OMIT, arg_registerPassword OMIT, arg_getPassword OMIT, arg_processUnstructuredSSData OMIT, arg_processUnstructuredSSRequest OMIT, arg_unstructuredSSRequest { ussd_DataCodingScheme 'F0'O, ussd_String OC_CodingOfUssdString(ussdString) }, arg_unstructuredSSNotify OMIT, arg_forwardCUGInfo OMIT, arg_forwardChargeAdvice OMIT }</pre>	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: ProcessUSSDReq_RR (inv_id : InvokeIDType ; ussdString: IA5String)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>rResult { invokeID inv_id, valueAndResult { operation localValue 59, registerSS_rr OMIT, eraseSS_rr OMIT, activateSS_rr OMIT, deactivateSS_rr OMIT, interrogateSS_rr OMIT, registerPassword_rr OMIT, getPassword_rr OMIT, processUnstructuredSSData_rr OMIT, processUnstructuredSSRequest_rr { ussd_DataCodingScheme 'F0'O, ussd_String OC_CodingOfUssdString(ussdString) }, unstructuredSSRequest_rr OMIT } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: Reject_01 (inv_id : InvokeIDType)
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
<pre>reject { invokedID { derivable inv_id , problem { invokeProblem unrecognizedOperation } } }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: Comps_01(comp : Component)
ASN1 Type	: Components
Derivation Path	:
Encoding Variation	:
Comments	: A received FIE may contain several components, but at least contains "comp".
Constraint Value	
SUPERSET({ comp})	
Detailed Comments :	

ASN.1 Type Constraint Declaration	
Constraint Name	: InterrogateSS_eMLPP
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Interrogate eMLPP
Constraint Value	
invoke { invokeID ?, operation localValue 14, arg_registerSS OMIT, arg_eraseSS OMIT, arg_activateSS OMIT, arg_deactivateSS OMIT, arg_interrogateSS { ss_Code 'A1'H }, arg_notifySS OMIT, arg_registerPassword OMIT, arg_getPassword OMIT, arg_processUnstructuredSSData OMIT, arg_processUnstructuredSSRequest OMIT, arg_unstructuredSSRequest OMIT, arg_unstructuredSSNotify OMIT, arg_forwardCUGInfo OMIT, arg_forwardChargeAdvice OMIT }	
Detailed Comments :	

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSSRslt_eMLPP (id : INTEGER)

ASN1 Type : Component

Derivation Path :

Encoding Variation :

Comments : CFB all basic services

Constraint Value

```
rResult
{   invokeID      id ,
    valueAndResult {
        operation      localValue 14,
        registerSS_rr   OMIT,
        eraseSS_rr      OMIT,
        activateSS_rr   OMIT,
        deactivateSS_rr OMIT,
        interrogateSS_rr
            genericServiceInfo
            {
                ss_Status      '07'H ,
                cli_RestrictionInfo OMIT,
                maxEntitledPr 0,
                defaultPr      2,
                ccbs_Feature  OMIT
            },
        registerPassword_rr   OMIT,
        getPassword_rr         OMIT,
        processUnstructuredSSData_rr  OMIT,
        processUnstructuredSSRequest_rr OMIT,
        unstructuredSSRequest_rr      OMIT
    }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RegisterSS_eMLPP
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: Register eMLPP with default priority set to 2
Constraint Value	
<pre>invoke { invokeID ?, operation localValue 10, arg_registerSS { ss_Code 'A1'H, basicService OMIT, forwardedToNumber OMIT, forwardedToSubaddress OMIT, noReplyConditionTime OMIT, defaultPriority 2 }, arg_eraseSS OMIT, arg_activateSS OMIT, arg_deactivateSS OMIT, arg_interrogateSS OMIT, arg_notifySS OMIT, arg_registerPassword OMIT, arg_getPassword OMIT, arg_processUnstructuredSSData OMIT, arg_processUnstructuredSSRequest OMIT, arg_unstructuredSSRequest OMIT, arg_unstructuredSSNotify OMIT, arg_forwardCUGInfo OMIT, arg_forwardChargeAdvice OMIT }</pre>	
Detailed Comments	:

ASN.1 Type Constraint Declaration

Constraint Name : RegisterSSRslt_eMLPP(id : INTEGER)

ASN1 Type : Component

Derivation Path :

Encoding Variation :

Comments : Sent RegisterSS return result

Constraint Value

```
rResult
{  invokeID      id,
  valueAndResult {
    operation    localValue 10,
    registerSS_rr      OMIT,
    eraseSS_rr         OMIT,
    activateSS_rr       OMIT,
    deactivateSS_rr     OMIT,
    interrogateSS_rr    OMIT,
    registerPassword_rr OMIT,
    getPassword_rr      OMIT,
    processUnstructuredSSData_rr  OMIT,
    processUnstructuredSSRequest_rr OMIT,
    unstructuredSSRequest_rr      OMIT
  }
}
```

Detailed Comments :

ASP Constraint Declaration		
Constraint Name : CMSerDatReq(pdu : CMS_RQ_PDU)		
ASP Type : DL_DatInCmsRq		
Derivation Path :		
Comments : To match any received CM SERVICE REQUEST message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HoldAckSnd(ch : LOGICCH; pdu : HOLD_ACK_PDU)		
ASP Type : DL_DatRqHoldAck		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : StartDTMFRcv(msg : START_DTMF_PDU)		
ASP Type : DL_DatInStartDtmf		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : StartDTMFAckSnd(ch : LOGICCH; msg : START_DTMF_ACK_PDU)		
ASP Type : DL_DatRqStartDtmfAck		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : StopDTMFRcv(msg : STOP_DTMF_PDU)		
ASP Type : DL_DatInStopDtmf		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : StopDTMFAckSnd(ch: LOGICCH; msg : STOP_DTMF_ACK_PDU)		
ASP Type : DL_DatRqStopDtmfAck		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AlertRcv(pdu: ALERT_PDU)		
ASP Type : DL_DatInAlert		
Derivation Path :		
Comments : To receive an ALERTING message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AlertSnd(ch : LOGICCH; pdu: ALERT_PDU)		
ASP Type : DL_DatRqAlert		
Derivation Path :		
Comments : To send an ALERTING message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AssCmd(ch : LOGICCH; pdu: ASS_CMD_PDU)		
ASP Type : DL_DatRqAssCmd		
Derivation Path :		
Comments : To send an ASSIGNMENT COMMAND message which is assigned in send statement.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AssCmp(ch : LOGICCH; pdu : ASS_COM_PDU) ASP Type : DL_DatInAssCom Derivation Path : Comments : To match any received ASSIGNMENT COMPLETE message		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch pdu ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AssFI_02(ch : LOGICCH) ASP Type : DL_DatInAssfl Derivation Path : Comments : protocol error undefined		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch AssgnFI_02 ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AssFI_any_cau(ch: LOGICCH) ASP Type : DL_DatInAssfl Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch AssgnFI_01 ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AuthReq(ch: LOGICCH; pdu: AUTH_RQ_PDU) ASP Type : DL_DatRqAuthRq Derivation Path : Comments : To send an AUTHENTICATION REQUEST message with default values.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : AuthRes(pdu: AUTH_RES_PDU) ASP Type : DL_DatInAuthRes Derivation Path : Comments : To match any received AUTHENTICATION RESPONSE message which contains any SRES.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CallCfm(pdu: CALL_CO_PDU) ASP Type : DL_DatInCallCo Derivation Path : Comments : To receive a CC CALL CONFIRMED message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CallProc(ch: LOGICCH; pdu: CALL_PROC_PDU)		
ASP Type : DL_DatRqCallProc		
Derivation Path :		
Comments : To send a CALL PROCEEDING message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CCStRcv(ch: LOGICCH; pdu : CCST_PDU)		
ASP Type : DL_DatInCcst		
Derivation Path :		
Comments : To match any received STATUS message with TI = Ti.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CCStESnd(ch: LOGICCH; pdu: CCST_ENQ_PDU)		
ASP Type : DL_DatRqCcstEnq		
Derivation Path :		
Comments : To send a STATUS ENQUIRY message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ChmmoAckRcv(ch : LOGICCH; msg : CHMMO_ACK_PDU) ASP Type : DL_DatInChmmoAck Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch msg ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ChmmoReqSnd(ch : LOGICCH; msg : CHMMO_PDU) ASP Type : DL_DatRqChmmo Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch msg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ChRel(ch: LOGICCH; pdu: CH_REL_PDU) ASP Type : DL_DatRqChRel Derivation Path : Comments : To send a CHANNEL RELEASE message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ChRel_UI(ch: LOGICCH; pdu: CH_REL_PDU) ASP Type : DL_UDatRqChRel Derivation Path : Comments : To send a CHANNEL RELEASE message (UI format).		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ChReq (pdu: CH_RQ_PDU) ASP Type : DL_RacInChRq Derivation Path : Comments : To receive a primitive containing a CHANNEL REQUEST message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
fn	?	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CMSerAcp(ch : LOGICCH; pdu: CMS_ACP_PDU) ASP Type : DL_DatRqCmsAcp Derivation Path : Comments : To send a CM service accept message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	DCCH
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CMSerRej(ch : LOGICCH; pdu: CMS_REJ_PDU) ASP Type : DL_DatRqCmsRej Derivation Path : Comments : reject cause = "service or option not available, unspecified"		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	0
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CMSerReq(pdu: CMS_RQ_PDU) ASP Type : DL_EstInCmsRq Derivation Path : Comments : To receive a CM SERVICE REQUEST message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch establish_mode msg fn	C_Sap0 ? ? pdu ?	0
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ConnAckRcv(pdu: CONN_ACK_PDU) ASP Type : DL_DatInConnAck Derivation Path : Comments : To receive a CONNECT ACKNOWLEDGE message		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ? pdu ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ConnAckSnd(ch : LOGICCH; pdu: CONN_ACK_PDU)		
ASP Type : DL_DatRqConnAck		
Derivation Path :		
Comments : To send a CONNECT ACKNOWLEDGE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ConnRcv(pdu: CONN_PDU)		
ASP Type : DL_DatInConn		
Derivation Path :		
Comments : To receive a CC CONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ConnSnd(ch: LOGICCH; pdu: CONN_PDU)		
ASP Type : DL_DatRqConn		
Derivation Path :		
Comments : To send a CC CONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ConnSnd_Asci (ch : LOGICCH; pdu : CON_ASCII_PDU)		
ASP Type : DL_DatRqConn_Asci		
Derivation Path :		
Comments : To send a VGCS/VBS CONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ConnSnd_Asci_Err (ch : LOGICCH; pdu : CON_ASCII_PDU_ERR)		
ASP Type : DL_DatRqConn_Asci_Err		
Derivation Path :		
Comments : To send an invalid VGCS/VBS CONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CphCmd(ch: LOGICCH; pdu: CPHM_CMD_PDU)		
ASP Type : DL_DatRqCphmCmd		
Derivation Path :		
Comments : To send a CIPHERING MODE COMMAND message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CphCmd_U (ch: LOGICCH; pdu: CPHM_CMD_PDU)		
ASP Type : DL_UDatRqCphmCmd		
Derivation Path :		
Comments : To send a CIPHERING MODE COMMAND message in UI format.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : CphCom(pdu: CPHM_COM_PDU)		
ASP Type : DL_DatInCphmCom		
Derivation Path :		
Comments : To receive a CIPHERING MODE COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DiscRcv(ch : LOGICCH; pdu: DISC_PDU)		
ASP Type : DL_DatInDisc		
Derivation Path :		
Comments : To match a received DISCONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	any cause, no option IEs
logic_ch	ch	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DiscSnd(ch : LOGICCH; pdu: DISC_PDU) ASP Type : DL_DatRqDisc Derivation Path : Comments : To send a DISCONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLEstInd(ch : LOGICCH) ASP Type : DL_EstIn Derivation Path : Comments : Indication of a layer 2 connection establishment		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
establish_mode	?	Norm
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLEstInd_ImmSetup (pdu: IMM_SETUP_ASCII_PDU) ASP Type : DL_EstInImSt Derivation Path : Comments : Indication of a layer 2 connection establishment		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
establish_mode	?	Norm
msg	pdu	NOTIFICATION RESPONSE
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLEstInd_ImmSetup2 (pdu: IMM_SETUP2_ASCl_PDU) ASP Type : DL_EstInImSt2 Derivation Path : Comments : Indication of a layer 2 connection establishment		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
establish_mode	?	Norm
msg	pdu	NOTIFICATION RESPONSE
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLEstInd_NotifResp (ch : LOGICCH; pdu: NT_RES_PDU) ASP Type : DL_EstInNTResp Derivation Path : Comments : Indication of a layer 2 connection establishment		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
establish_mode	?	Norm
msg	pdu	NOTIFICATION RESPONSE
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLRelInd_01 ASP Type : DL_RelIn Derivation Path : Comments : Layer 2 indication of the layer 2 connection has been released.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
release_mode	?	
outstanding_indicator	?	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLRelInd_02		
ASP Type : DL_RelIn		
Derivation Path :		
Comments : Layer 2 indication of the layer 2 connection has been released.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
release_mode	C_LocEndRel	
outstanding_indicator	?	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : DLUdatInd_01		
ASP Type : DL_UdatIn		
Derivation Path :		
Comments : Detection of any filler frame		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ESetupRcv(pdu: ESETUP_PDU)		
ASP Type : DL_DatInESetup		
Derivation Path :		
Comments : To receive an emergency call SETUP message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : FrqRedfSnd(ch : LOGICCH; pdu : FRQRE_PDU)		
ASP Type : DL_DatRqFrqre		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : GetStatus (ch : LOGICCH; pdu: GST_ASCII_PDU)		
ASP Type : DL_DatRqGetStatus		
Derivation Path :		
Comments : To send a GET STATUS message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HndOvSnd(ch : LOGICCH; msg : HO_CMD_PDU)		
ASP Type : DL_DatRqHoCmd		
Derivation Path :		
Comments : To send a HANDOVER COMMAND indicating a finely synchronised intra cell handover.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HndOvAcc_01		
ASP Type : DL_RacInHoacc		
Derivation Path :		
Comments : To received any HANDOVER ACCESS message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0,
logic_ch	?	
msg	HandOverAcc_01	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HndOvAccRcv(ch: LOGICCH; msg : HOACC_PDU)		
ASP Type : DL_RacInHoacc		
Derivation Path :		
Comments : To received any HANDOVER ACCESS message on channel 'ch'.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0,
logic_ch	ch	
msg	msg	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HndOvFIRcv(ch : LOGICCH; msg :HOFL_PDU)		
ASP Type : DL_DatInHofl		
Derivation Path :		
Comments : To match a received HANDOVER FAILURE message containing any RR cause.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HndOvCmpRcv(ch : LOGICCH; msg : HO_COM_PDU) ASP Type : DL_DatInHoCom Derivation Path : Comments : To receive any HANDOVER COMPLETE message on channel ch.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch msg ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HoldRcv(pdu : HOLD_PDU) ASP Type : DL_DatInHold Derivation Path : Comments : To receive any HOLD message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ? pdu ?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : HoldRjSnd (ch : LOGICCH; pdu : HOLD_REJ_PDU) ASP Type : DL_DatRqHoldRj Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : IDReq(ch : LOGICCH; pdu: ID_RQ_PDU)		
ASP Type : DL_DatRqldRq		
Derivation Path :		
Comments : To send IDENTITY REQUEST message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : IDRes(pdu: ID_RES_PDU)		
ASP Type : DL_DatInIdRes		
Derivation Path :		
Comments : To receive a IDENTITY RESPONSE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ImmAss(ch: LOGICCH; pdu: IMMASS_PDU)		
ASP Type : DL_UdatRqImmss		
Derivation Path :		
Comments : To send an IMMEDIATE ASSIGNMENT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ImmAssX(ch : LOGICCH; pdu : IMMASSX_PDU) ASP Type : DL_UdatRqImmassx Derivation Path : Comments : To send an IMMEDIATE ASSIGNMENT EXTENDED message which assigns the SDCCH/4 channel for the MS		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments : The request reference (Rr, Fn) is used for the MS1, whilst (Rr_9, Fn_9) for MS2.		

ASP Constraint Declaration		
Constraint Name : ImmAssRej(ch : LOGICCH; pdu : IMMASS_REJ_PDU) ASP Type : DL_UdatRqImmassRej Derivation Path : Comments : To send an IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode and wait indication = 0 seconds.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ImsiDet(pdu : IMSID_IN_PDU) ASP Type : DL_EstInImsidIn Derivation Path : Comments : To match a received IMSI DETACH INDICATION message matching any MS classmark1 value and any mobile identity value		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	check not required
establish_mode	?	check not required
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : LocAcp(ch : LOGICCH; pdu : LUP_ACP_PDU)		
ASP Type : DL_DatRqLupAcp		
Derivation Path :		
Comments : To send a LOCATION UPDATING ACCEPT message with a new mobile identity TMSI and location area.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : LocUp(ch: LOGICCH; pdu : LUP_RQ_PDU)		
ASP Type : DL_EstInLupRq		
Derivation Path :		
Comments : To match a received LOCATION UPDATING REQUEST message containing location updating type = IMSI attach.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	no check required
logic_ch	ch	
establish_mode	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : LocRej(ch: LOGICCH; pdu : LUP_REJ_PDU)		
ASP Type : DL_DatRqLupRej		
Derivation Path :		
Comments : To send a LOCATION UPDATING REJECT message containing the reject cause IMSI unknown in HLR. Used var's: ch		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : MDLRelReq(ch : LOGICCH) ASP Type : MDL_RelRq Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
release_mode	C_LocEndRel	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : MsrRept(pdu : MSR_RPT_PDU) ASP Type : DL_UdatInMsrRpt Derivation Path : Comments : To receive a measurement report without measurement results.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	SACCH
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : NotifyFACCH (ch:LOGICCH; msg : NT_FACCH_PDU) ASP Type : DL_UdatRqNtFACCH Derivation Path : Comments : To send a NOTIFY message to the MS.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : NotifyNCH (ch:LOGICCH; msg : NT_NCH_PDU) ASP Type : DL_UdatRqNtNCH Derivation Path : Comments : To send a NOTIFY message to the MS.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch msg	0
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : NotifyNCH_Err (ch:LOGICCH; msg : NT_NCH_PDU_ERR) ASP Type : DL_UdatRqNtNCH_Err Derivation Path : Comments : To send a NOTIFY message to the MS.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch msg	0
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : NotifResp (pdu: NT_RES_PDU) ASP Type : DL_DatInNotifResp Derivation Path : Comments : To receive a NOTIFICATION RESPONSE message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ? pdu ?	0
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : PgReq1(ch : LOGICCH; pgg : PGG; pg1_req_pdu: PG1_RQ_PDU)		
ASP Type : DL_UdatRqPg1Rq		
Derivation Path :		
Comments : To send a PAGING REQUEST TYPE 1 message to the paging group indicated by the parameter pgg which is derived from system parameters. The PAGING REQUEST TYPE1 message requests normal paging mode, any channel and for the MS identity TSPX_TMSI.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	pg1_req_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : PgReq2(ch : LOGICCH; pgg : PGG; pg2_req_pdu: PG2_RQ_PDU) ASP Type : DL_UdatRqPg2Rq Derivation Path : Comments : To send a PAGING REQUEST TYPE 1 message to the paging group indicated by the parameter pgg which is derived from system parameters. The PAGING REQUEST TYPE1 message requests normal paging mode, any channel and for the MS identity TSPX_TMSI.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	pg2_req_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : PgReq3(ch : LOGICCH; pgg : PGG; pg3_req_pdu: PG3_RQ_PDU)		
ASP Type : DL_UdatRqPg3Rq		
Derivation Path :		
Comments : To send a PAGING REQUEST TYPE 1 message to the paging group indicated by the parameter pgg which is derived from system parameters. The PAGING REQUEST TYPE1 message requests normal paging mode, any channel and for the MS identity TSPX_TMSI.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	pg3_req_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : PagingRes(pdu: PG_RES_PDU)		
ASP Type : DL_EstInPgRes		
Derivation Path :		
Comments : To receive a PAGING RESPONSE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	PAGING RESPONSE
logic_ch	?	
establish_mode	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : PhyInfo_01(ch: LOGICCH; ta : TA)		
ASP Type : DL_DatRqPhyinfo		
Derivation Path :		
Comments :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	Phyinfo_01(ta)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Register_03(reg : REGISTER_PDU)		
ASP Type : DL_DatInRegister		
Derivation Path :		
Comments : CFNRy		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0 DCCH
logic_ch	?	
msg	reg	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ReleaseRcv(pdu: REL_PDU)		
ASP Type : DL_DatInRel		
Derivation Path :		
Comments : To receive a CC RELEASE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : ReleaseSnd(ch: LOGICCH; pdu: REL_PDU)		
ASP Type : DL_DatRqRel		
Derivation Path :		
Comments : To send a RELEASE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : RelComRcv (pdu: REL_COM_PDU)		
ASP Type : DL_DatInRelCmp		
Derivation Path :		
Comments : To receive a RELEASE COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : RelComSnd(ch : LOGICCH; pdu: REL_COM_PDU) ASP Type : DL_DatRqRelCmp Derivation Path : Comments : To send a RELEASE COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SetupRcv(pdu: SETUP_MO_PDU) ASP Type : DL_DatInSetup Derivation Path : Comments : To receive a SETUP message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SetupRcv_Asci (pdu: SETUP_ASCII_PDU) ASP Type : DL_DatInSetup_asci Derivation Path : Comments : To receive a SETUP message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SetupSnd(ch: LOGICCH; setup : SETUP_MT_PDU)		
ASP Type : DL_DatRqSetup		
Derivation Path :		
Comments : To send a SETUP message which is the input parameter of this ASP.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	setup	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SetParameter (ch: LOGICCH; pdu : SET_PAR_ASCII_PDU)		
ASP Type : DL_DatRqSetPar		
Derivation Path :		
Comments : To send a SETUP message which is the input parameter of this ASP.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Status (ch:LOGICCH; pdu: STATUS_ASCII_PDU)		
ASP Type : DL_DatInStatus		
Derivation Path :		
Comments : To receive a STATUS message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SyncInfo(ch : LOGICCH; bcc : BCC; ncc : NCC) ASP Type : DL_UdatRqSchinfo Derivation Path : Comments : To send SYNCHRONIZATION INFORMATION message with default parameters.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SyncInfor(bcc, ncc)	SCH
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo1(ch : LOGICCH; cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1) ASP Type : DL_UdatRqSysinfo1 Derivation Path : Comments : To send SYSTEM INFORMATION TYPE 1 in cell A for RR testing of GSM900.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf1(cchd, maxtx, txint, re)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo1_asciDef (ch : LOGICCH; cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1; nch_pos : B_5) ASP Type : DL_UdatRqSysinfo1 Derivation Path : Comments : To send SYSTEM INFORMATION TYPE 1 in cell A for RR testing of GSM900.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf1_asciDef (cchd, maxtx, txint, re, nch_pos)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo1_nh(ch : LOGICCH; ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1) ASP Type : DL_UdatRqSysinfo1_nh Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf3(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo2(ch: LOGICCH; bcchfl: NCD; maxtx : B_2; txint : B_4; re : B_1; nccp : NCCP) ASP Type : DL_UdatRqSysinfo2 Derivation Path : Comments : To send the default SYSTEM INFORMATION TYPE 2 message containing default neighbour cells description in cell B for GSM900.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf2(bcchfl, maxtx, txint, re, nccp)	Default system Information message 2
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo2bis(ch: LOGICCH; bcchflegsm : NCD) ASP Type : DL_UdatRqSysinfo2bis Derivation Path : Comments : SYSTEM INFORMATION 2bis in cell A under EGSM with the ARFCN list = {988, 990, 1003}.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf2bis(bcchflegsm)	0 BCCH
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo3(ch : LOGICCH; ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1) ASP Type : DL_UdatRqSysinfo3 Derivation Path : Comments :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf3(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	Default System Information 3 with CCCH combined with SDCCH
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo4(ch : LOGICCH; mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1) ASP Type : DL_UdatRqSysinfo4 Derivation Path : Comments : To send a default SYSTEM INFORMATION TYPE 4 message		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf4(mcc, mnc, lac, crh, mtmc, neci, maxtx, txint, re)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo4_asci_cell (ch : LOGICCH; mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1) ASP Type : DL_UdatRqSysinfo4 Derivation Path : Comments : To send a default SYSTEM INFORMATION TYPE 4 message		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf4_asci_cell (mcc, mnc, lac, crh, mtmc, neci, maxtx, txint, re)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo4_CBMS(ch : LOGICCH; mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1; cbchd : CHD)		
ASP Type : DL_UdatRqSysinfo4		
Derivation Path :		
Comments : To send a SYSTEM INFORMATION TYPE 4 message for SMSCB with the values or GSM 11.10, 34.3		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf4_CBMS(mcc, mnc, lac, crh, mtmc, neci, maxtx,txint, re, cbchd)	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo5(sacch: LOGICCH; sysinfo5_pdu : SYSINFO5_PDU)		
ASP Type : DL_UdatRqSysinfo5		
Derivation Path :		
Comments : To send a SYSTEM INFORMATION TYPE 5 message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo5_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo5bis(sacch: LOGICCH; sysinfo5bis_pdu : SYSINFO5bis_PDU)		
ASP Type : DL_UdatRqSysinfo5bis		
Derivation Path :		
Comments : To send a SYSTEM INFORMATION TYPE 5bis message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo5bis_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo6(sacch: LOGICCH; sysinfo6_pdu : SYSINFO6_PDU)		
ASP Type : DL_UdatRqSysinfo6		
Derivation Path :		
Comments : To send a SYSTEM INFORMATION TYPE 6 message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo6_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SysInfo10 (sacch: LOGICCH; sysinfo10_pdu : SYSINFO10_PDU)		
ASP Type : DL_UdatRqSysinfo10		
Derivation Path :		
Comments : To send a SYSTEM INFORMATION TYPE 10 message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo10_pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : TalkerIndication (pdu:TK_IND_PDU; ch : LOGICCH)		
ASP Type : DL_EstInTkInd		
Derivation Path :		
Comments : To receive a primitive containing a TALKER INDICATION message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	CoRes
logic_ch	ch	
establish_mode	?	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Termination (ch : LOGICCH; pdu: TERM_ASCI_PDU)		
ASP Type : DL_DatRqTerm		
Derivation Path :		
Comments : To send a TERMINATION message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : TerminationRj (ch : LOGICCH; pdu: TERM_RJ_ASCI_PDU)		
ASP Type : DL_DatRqTermRj		
Derivation Path :		
Comments : To send a TERMINATION message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : TerminationRq (ch:LOGICCH; pdu: TERM_RQ_ASCI_PDU)		
ASP Type : DL_DatInTermRq		
Derivation Path :		
Comments : To receive a TERMINATION REQUEST message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : TmsiReallocCmp(ch : LOGICCH)		
ASP Type : DL_DatInTmsireCom		
Derivation Path :		
Comments : To receive a TMSI REALLOCATION COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	TmsiReallocComp	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : UpAccess (pdu: UP_ACC_PDU)		
ASP Type : DL_RacInUpAcc		
Derivation Path :		
Comments : To receive a primitive containing a CHANNEL REQUEST message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
fn	?	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : UplinkBusy (pdu: UP_BS_PDU ; ch : LOGICCH)		
ASP Type : DL_UDatRqUpBs		
Derivation Path :		
Comments : To send a UPLINK BUSY message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : UplinkFree (ch : LOGICCH ; pdu: UP_FR_PDU)		
ASP Type : DL_UDatRqUpFree		
Derivation Path :		
Comments : To send a UPLINK FREE message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : UplinkRelS (ch:LOGICCH; pdu: UP_RL_PDU)		
ASP Type : DL_DatRqUpRel		
Derivation Path :		
Comments : To match any received UPLINK RELEASE message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : UplinkRel (ch:LOGICCH; pdu: UP_RL_PDU)		
ASP Type : DL_DatInUpRel		
Derivation Path :		
Comments : To match any received UPLINK RELEASE message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : VGCSUplinkGrant (ch : LOGICCH; pdu : VGCS_UP_GR_PDU)		
ASP Type : DL_UdatRqVgcsUpGrant		
Derivation Path :		
Comments : To send a VGCS Uplink Grant message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
Detailed Comments :		

PDU Constraint Declaration			
Constraint Name : Alerting_R_UUS (Ti : TI; cpa_uus : UU) PDU Type : ALERT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match an received ALERTING message			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?000001'B		message type
fie	*		facility
pi	–		progress indicator
uu	cpa_uus		user–user
ssvi	*		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Alerting_S_UUS (Ti :TI; cpa_uu:UU) PDU Type : ALERT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An ALERTING message containing mandatory IE's and User–user IE to be sent to the MS.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000001'B		message type
fie	–		facility
pi	–		progress indicator
uu	cpa_uu		user–user
ssvi	–		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CCStatus_14(Ti : TI; st : INTEGER) PDU Type : CCST_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CC STATUS message to match a received CC STATUS containing CC state = 'st', cause = #30			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		CC protocol discriminator message type #30 auxiliary status
ccpd	'0011'B		
mt	'0?111101'B		
cau	Cause_18		
cst	CallState_01(st)		
acst	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_03 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match the received CHANNEL REQUEST message containing establishment cause = '0001'B, "other procedures which can be completed with an SDCCH".			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'0001????'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_19 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match the received CHANNEL REQUEST message with establishment cause = '111'B or '101'B ---- initiate outgoing call			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	('111?????'B, '101?????'B)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Connect_R_UUS (ti : TI; cpa_uu : UU) PDU Type : CONN_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC CONNECT message matching any received value			
Field Name	Field Value	Field Encoding	Comments
ti	ti		'1000'B
ccpd	'0011'B		CC protocol discriminator
mt	'0?000111'B		
fie	*		
pi	—		
cnn	—		connected number
cns	*		connected subaddress
uu	cpa_uu		
ssvi	*		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Connect_S_UUS (Ti : TI; cpa_uu:UU) PDU Type : CONN_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC CONNECT message containing mandatory IE's only.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000111'B		
fie	—		
pi	—		
cnn	—		connected number
cns	—		connected subaddress
uu	cpa_uu		
ssvi	—		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CServiceReq_04 PDU Type : CMS_RQ_PDU Derivation Path : CServiceReq_01. Encoding Rule Name : Encoding Variation : Comments : To match a received CM SERVICE REQUEST message containing CM service type = "Mobile originating call establishment or packet mode connection establishment" or " emergency call establishment".			
Field Name	Field Value	Field Encoding	Comments
svtype	('0001'B, '0010'B)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : HoldAckpdu_01(Ti : TI) PDU Type : HOLD_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00011001'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : RegisterPdu_04 (fie : FIE) PDU Type : REGISTER_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match a received REGISTER message including an SS version indicator			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
sspd	'1011'B		non call related supplementary services protocol discriminator
mt	'0?111011'B		message type
fie	fie		facility
ssvi	SS_Version_01		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : RegisterPdu_05 (fie : FIE) PDU Type : REGISTER_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match a received REGISTER message without SS version indicator			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
sspd	'1011'B		non call related supplementary services protocol discriminator
mt	'0?111011'B		message type
fie	fie		facility
ssvi	–		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmp_02(ti : TI) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A RELEASE COMPLETE message containing cause value #16. n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
cc_sspd	'0011'B		CC protocol discriminator
mt	'00101010'B		
cau	Cause_26		cause value #16
fie	–		facility
uu	–		user–user information
ssvi	–		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmp_29(ti : TI) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A RELEASE COMPLETE message containing cause value #29 (facility rejected) n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
cc_sspd	'0011'B		CC protocol discriminator
mt	'00101010'B		
cau	Cause_29		cause value #16
fie	–		facility
uu	–		user–user information
ssvi	–		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmp_UUS(ti : TI; cpa_uu:UU) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A RELEASE COMPLETE message containing cause value #16. n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
cc_sspd	'0011'B		CC protocol discriminator
mt	'00101010'B		
cau	Cause_26		cause value #16
fie	–		facility
uu	cpa_uu		user–user information
ssvi	–		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SetupInd_UUS (cpa_uu : UU) PDU Type : SETUP_MO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received SETUP message			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		
ccpd	'0011'B		
mt	'0?000101'B		
bcri	*		BC repeat indicator
bcap1	?		bearer capab.
bcap2	*		bearer capab.
fie	*		facility
cgps	*		calling party subaddr.
cdpn	?		called party BCD number
cdps	*		called party subaddr.
llcri	*		LLC repeat indicator
llcmp1	*		low layer compatib.1
llcmp2	*		low layer compatib.2
hlcri	*		HLC repeat indicator
hlcmp1	*		high layer compat.1
hlcmp2	*		high layer compat.
uu	cpa_uu		user-user information
ssvi	*		SS version
clirsup	*		CLIR suppression
clirinv	*		CLIR invocation
cccap	CallCntrlCap IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : StartDtmf_02 PDU Type : START_DTMF_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?110101'B		message type
kpf	KeyPad_02		keypad facility
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : StartDtmfAck_01(character : IA5String) PDU Type : START_DTMF_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_01		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00110110'B		message type
kpf	KeyPad_01(character)		keypad facility
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : StopDtmf_01 PDU Type : STOP_DTMF_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?110001'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : StopDtmfAck_01 PDU Type : STOP_DTMF_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_01		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00110010'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Alerting_01(Ti:Ti) PDU Type : ALERT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An ALERTING message containing mandatory IE's only to be sent to the MS.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000001'B		message type
fie	—		facility
pi	—		progress indicator
uu	—		user–user
ssvi	—		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AlertingInd_02(Ti : TI) PDU Type : ALERT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match an received ALERTING message			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?000001'B		message type
fie	*		facility
pi	—		progress indicator
uu	*		user–user
ssvi	*		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AsgnCmd_nfh(type : CH_TDMA; slot : SN; tsc : TSC; par_pwlvl, arfcn : INTEGER; cchd : CCHD; chmod : CHMOD; strt : STRT; cphms : CPHMS)			
PDU Type : ASS_CMD_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : An ASSIGNMENT COMMAND message. The channel mode and type are specified as parameters.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00101110'B		
ch1d_at	ChDescrp_nfh(type, slot, tsc, arfcn)		
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	–		
cchd	cchd		
dmsc	–		Phase 2+
ch1mod	chmod		
modchs2	–		Phase 2+
modchs3	–		Phase 2+
modchs4	–		Phase 2+
modchs5	–		Phase 2+
modchs6	–		Phase 2+
modchs7	–		Phase 2+
modchs8	–		Phase 2+
ch2d_at	–		
ch2mod	–		
ma_at	–		
strt	strt		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		
vgcstmi	–		Phase 2+
Detailed Comments : used iin CC testing			

PDU Constraint Declaration

Constraint Name : AsgnCmd_nfh_Asci (type : CH_TDMA; slot : SN; tsc : TSC; par_pwlvl, arfcn : INTEGER; cchd : CCHD; chmod : CHMOD; strt : STRT; cphms : CPHMS; vgcstmi : VGCSTMI)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message. The channel mode and type are specified as parameters.

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00101110'B		
ch1d_at	ChDescrp_nfh(type, slot, tsc, arfcn)		
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	–		
cchd	cchd		
dmisc	–		Phase 2+
ch1mod	chmod		
modchs2	–		Phase 2+
modchs3	–		Phase 2+
modchs4	–		Phase 2+
modchs5	–		Phase 2+
modchs6	–		Phase 2+
modchs7	–		Phase 2+
modchs8	–		Phase 2+
ch2d_at	–		
ch2mod	–		
ma_at	–		
strt	strt		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		
vgcstmi	vgcstmi		Phase 2+

Detailed Comments : used iin CC testing

PDU Constraint Declaration			
Constraint Name : AsgnCmd_tchf_fh_Asci (slot : SN; tsc : TSC; par_pwlvl : INTEGER; maio : MAIO; hsn : HSN; frql : FRQL; cchd : CCHD; chmod : CHMOD; ma : MA; strt : STRT; cphms : CPHMS; vgcstmi : VGCSTMI)			
PDU Type : ASS_CMD_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : An ASSIGNMENT COMMAND message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		TCH/F + ACCHs hopping
rrpd	'0110'B		
mt	'00101110'B		
ch1d_at	ChDescrp_tchf_fh(slot, tsc, maio, hsn)		
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	frql		Phase 2+
cchd	cchd		
dmsc	–		
ch1mod	chmod		
modchs2	–		
modchs3	–		Phase 2+
modchs4	–		Phase 2+
modchs5	–		Phase 2+
modchs6	–		Phase 2+
modchs7	–		Phase 2+
modchs8	–		Phase 2+
ch2d_at	–		
ch2mod	–		
ma_at	ma		
strt	strt		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		
vgcstmi	vgcstmi		Phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AsgnCmp_02 PDU Type : ASS_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An ASSIGNMENT COMPLETE message containing any cause.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00101001'B		message type
rrcau	?		any cause value
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AssgnFI_01 PDU Type : ASSFL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00101111'B		message type
rrcau	?		RR cause
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AssgnFI_02 PDU Type : ASSFL_PDU Derivation Path : AssgnFI_01. Encoding Rule Name : Encoding Variation : Comments : #6F			
Field Name	Field Value	Field Encoding	Comments
rrcau	'01101111'B		protocol error unspecified
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AuthRequest(cksn: B_3; rand : RAND) PDU Type : AUTH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An AUTHENTICATION REQUEST message containing default ciphering key sequence number and default challenge RAND from PIXIT.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'00010010'B		
shoct	'0000'B		
cphksn	CphKeySN_07(cksn)		
rand	rand		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : AuthResponse PDU Type : AUTH_RES_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An AUTHENTICATION RESPONSE message matching any SRES.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?010100'B		
sres	?		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CallConfirm_01(ti : TI) PDU Type : CALL_CO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : a CALL CONFIRMED message with TI parameterized			
Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?001000'B		message type
bcri	*		BC repeat indicator
bcap1	*		bearer capab.
bcap2	*		bearer capab.
cau	—		
cccap	*		cc capabilities O
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CallConfirm_02(Ti : TI) PDU Type : CALL_CO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : a CALL CONFIRMED message with cause #17.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?001000'B		message type
bcri	*		BC repeat indicator
bcap1	*		bearer capab.
bcap2	*		bearer capab.
cau	Cause_17		cause
cccap	*		cc capabilities O
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CallProced_01(Ti : TI) PDU Type : CALL_PROC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An CALL PROCEEDING message with mandatory IE's only.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000010'B		message type
bcri	–		BC repeat indicator
bcap1	–		bearer capab.
bcap2	–		bearer capab.
fie	–		facility
pi	–		progress indicator
pr	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CallProced_03 PDU Type : CALL_PROC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An CALL PROCEEDING message templet used for CallProcGen			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000010'B		message type
bcri	–		BC repeat indicator
bcap1	–		bearer capab.
bcap2	–		bearer capab.
fie	–		facility
pi	–		progress indicator
pr	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CCStatus_01(Ti : TI) PDU Type : CCST_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CC STATUS message to match any received CC STATUS.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?111101'B		message type
cau	?		cause
cst	?		call state
acst	*		auxiliary status
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CCStatusEq_01(Ti : TI) PDU Type : CCST_ENQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A STATUS ENQUIRY message			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		
mt	'00110100'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChmomoAck_08(type : CH_TDMA; chmd : B_8; slot : SN; tsc :TSC; arfcn : INTEGER) PDU Type : CHMMO_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00010111'B		message type
chd	ChDescrp_nfh(type, slot, tsc, arfcn)		channel description
chmod	ChMod(chmd)		channel mode
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChmomoReq_07(type: CH_TDMA; chmd: B_8; slot: SN; tsc: TSC; arfcn: INTEGER) PDU Type : CHMMO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00010000'B		message type
chd	ChDescrp_nfh (type, slot, tsc, arfcn)		channel description
chmod	ChMod(chmd)		channel mode
vgcstmi	–		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRelease_01 PDU Type : CH_REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CHANNEL RELEASE message with RR cause = normal event			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00001101'B		
rrcau	'00000000'B		normal event
barng	–		phase 2+
gchd	–		phase 2+
gckn	–		phase 2+
gprsr	–		phase 2+ GPRS
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRelease_02 (type : CH_TDMA; slot : SN; tsc : TSC; par_arfcn: INTEGER) PDU Type : CH_REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CHANNEL RELEASE message with RR cause = normal event			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00001101'B		
rrcau	'00000000'B		normal event
barng	–		phase 2+
gchd	GroupChannelDescr_02 (type, slot , tsc , par_arfcn)		phase 2+
gckn	–		phase 2+
gprsr	–		phase 2+ GPRS
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_01 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CHANNEL REQUEST message containing establishment cause = answer to paging.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'100?????'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_02 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received CHANNEL REQUEST message			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'????????'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_09 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match the received CHANNEL REQUEST message with establishment cause = '000'B.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'000????'B		location updating
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_15 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match the received CHANNEL REQUEST message with establishment cause = '111'B or '0100'B or '0101'B ---- initiate outgoing call or SDCCH other procedures.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	('111????'B, '0100????'B, '0101????'B, '101????'B, '0001????'B)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_16 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match the received CHANNEL REQUEST message with establishment cause = '101'B for emergency call.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'101????'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_17 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CHANNEL REQUEST message containing establishment cause = 100, 0010, 0011, 0001			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	('100?????'B, '0010????'B, '0011????'B, '0001????'B)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ChRequest_18 PDU Type : CH_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CHANNEL REQUEST message containing establishment cause = 0001 'other procedure which can be completed with an SDCCH'			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'0001????'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CMServiceAcp_01			
PDU Type : CMS_ACP_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : a CM SERVICE ACCEPT message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		mm
mmpd	'0101'B		
mt	'00100001'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CMServiceRej_01 PDU Type : CMS_REJ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : reject cause = 'service or option not available, unspecified"			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
mmpd	'0101'B		MM protocol discriminator
mt	'00100010'B		message type
mmcau	'20'O		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CMServiceReq_01 PDU Type : CMS_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received CM SERVICE REQUEST message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?100100'B		
cphksn	?		
svtype	?		
msclm	?		
mi	?		
pr	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CServiceReq_06(cksn : B_3) PDU Type : CMS_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received CM SERVICE REQUEST message for emergency call with TMSI and correct CKSN.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		default CKSN emergency call.
mmpd	'0101'B		
mt	'0?100100'B		
cphksn	CphKeySN_01(cksn)		
svtype	C_CServiceTypeE		
msclm	?		
mi	MiTmsi_01		
pr	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CServiceReq_08 PDU Type : CMS_RQ_PDU Derivation Path : CServiceReq_01. Encoding Rule Name : Encoding Variation : Comments : To match the received CM SERVICE REQUEST message indicating " supplementary service activation"			
Field Name	Field Value	Field Encoding	Comments
svtype	'1000'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CServiceReq_eMlpp (pr : B_3) PDU Type : CMS_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received CM SERVICE REQUEST message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?100100'B		
cphksn	?		
svtype	?		
msclm	?		
mi	?		
pr	Priority_emlpp (pr)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CServiceReq_eMlppEmg (pr : B_3) PDU Type : CMS_RQ_PDU Derivation Path : CServiceReq_eMlpp. Encoding Rule Name : Encoding Variation : Comments : To match a received CM SERVICE REQUEST message containing the priority level.			
Field Name	Field Value	Field Encoding	Comments
svtype	C_CMSServiceTypeE		emergency call.
pr	Priority_emlpp (pr)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CServiceReq_Noemlpp PDU Type : CMS_RQ_PDU Derivation Path : CServiceReq_01. Encoding Rule Name : Encoding Variation : Comments : To match a received CM SERVICE REQUEST message without priority level.			
Field Name	Field Value	Field Encoding	Comments
pr	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CMServiceReq_NoeMlppEmg PDU Type : CMS_RQ_PDU Derivation Path : CMServiceReq_01. Encoding Rule Name : Encoding Variation : Comments : To match a received CM SERVICE REQUEST message without priority level.			
Field Name	Field Value	Field Encoding	Comments
svtype pr	C_CMServiceTypeE —		emergency call.
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Connect_01(ti : TI) PDU Type : CONN_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC CONNECT message matching any received value			
Field Name	Field Value	Field Encoding	Comments
ti ccpd mt fie pi cn cns uu ssvi	ti '0011'B '0?000111'B * — — * * *		'1000'B CC protocol discriminator connected number connected subaddress SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Connect_02(Ti : TI) PDU Type : CONN_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC CONNECT message containing mandatory IE's only.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000111'B		
fie	—		
pi	—		
cnn	—		connected number
cns	—		connected subaddress
uu	—		
ssvi	—		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAck_01(ti : TI) PDU Type : CONN_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CONNECT ACKNOWLEDGE message n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	ti		'0000'B
ccpd	'0011'B		CC protocol discriminator
mt	'00001111'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAck_02(Ti : TI) PDU Type : CONN_ACK_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CONNECT ACKNOWLEDGE message			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?001111'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAsci_01 (asci_type : B_1; ti :TI ; cref : B_27; oi:OIND) PDU Type : CON_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110011'B		message type
gcr	GroupCallRef_01 (cref)		Group call reference
spb	'0000'B		Spare bits
oind	oi		Originator indication
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAsci_noCref (asci_type : B_1; ti :TI ; oi:OIND) PDU Type : CON_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CONNECT message without call reference			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110011'B		message type
gcr	–		Group call reference
spb	'0000'B		Spare bits
oind	oi		Originator indication
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAsci_Err (asci_type : B_1; ti :TI ; cref : B_27; oi:OIND) PDU Type : CON_ASCII_PDU_ERR Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Including an unknown information element			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110011'B		message type
gcr	GroupCallRef_01 (cref)		Group call reference
unknown	UnknownIE_01		unknown information element
spb	'0000'B		Spare bits
oind	oi		Originator indication
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAsci_Undef (asci_type : B_1; ti :TI ; cref : B_27) PDU Type : CON_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : INVALID message type			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110111'B		INVALID message type
gcr	GroupCallRef_01 (cref)		Group call reference
spb	'0000'B		Spare bits
oind	OriginatorInd_MS		Originator indication
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAsci_TooShort (asci_type : B_1; ti :TI) PDU Type : CON_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : too short message without Call reference and originator indication			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT ((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110011'B		message type
gcr	–		Group call reference
spb	–		Spare bits
oind	–		Originator indication
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ConnectAsci_Vbs_01 (ti :TI ; cref : B_27) PDU Type : CON_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	'0001'B		Group call control protocol discriminator
mt	'00110011'B		message type
gcr	GroupCallRef_01 (cref)		Group call reference
spb	'0000'B		Spare bits
oind	OriginatorInd_MS		Originator indication
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CphModeCmd_01			
PDU Type : CPHM_CMD_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : CIPHERING MODE COMMAND message, the ciphering algorithm is specified by PIXIT.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		IMEISV not included ciphering "on"
rrpd	'0110'B		
mt	'00110101'B		
cph_res	CiphRes_01		
cphms	CphMod_01		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CphModeCmd_02 PDU Type : CPHM_CMD_PDU Derivation Path : CphModeCmd_01. Encoding Rule Name : Encoding Variation : Comments : CIPHERING MODE COMMAND message with no ciphering.			
Field Name	Field Value	Field Encoding	Comments
cphms	CphMod_02		no ciphering
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : CphModeCmp_01 PDU Type : CPHM_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received CIPHERING MODE COMPLETE message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00110010'B		message type
mei	*		mobile equipment identity
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : DisconnS(Ti : TI; cau : CAU; progind : PI; uuinf : UU) PDU Type : DISC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A DISCONNECT message that contains cause = normal clearing and progress indicator = #8.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		
mt	'00100101'B		
cau	cau		
fie	–		
pi	progind		
uu	uuinf		
ssvi	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : DisconnR(Ti : TI; cau : CAU) PDU Type : DISC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A default DISCONNECT message matching parametrised value ms –> n.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		
mt	'0?100101'B		
cau	cau		
fie	*		
pi	*		
uu	*		
ssvi	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : FreqRedef_01(chd : CHD; ma : MA; strt : STRT; cchd : CCHD) PDU Type : FRQRE_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00010100'B		message type
chd	chd		
ma	ma		
strt	strt		
cchd	cchd		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : GetStatus_Def (asci_type : B_1; ti : TI) PDU Type : GST_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT ((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00111001'B		message type
mi	MiTmsi_01iei		Mobile identity
mi2	–		Mobile identity
unknown	–		unknown information element
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : GetStatus_Err (asci_type : B_1; ti : TI) PDU Type : GST_ASCl_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00111001'B		message type
mi	MiTmsi_01iei		Mobile identity
mi2	–		Mobile identity
unknown	UnknownIE_03		unknown information element
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : GetStatus_2mi (asci_type : B_1; ti : TI) PDU Type : GST_ASCl_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : with 2 mobile identity			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00111001'B		message type
mi	MiTmsi_02iei		Mobile identity that does not address MS
mi2	MiTmsi_01iei		Mobile identity
unknown	–		unknown information element
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : HandOverAcc_01 PDU Type : HOACC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received HANDOVER ACCESS message			
Field Name	Field Value	Field Encoding	Comments
horf	?		handover reference
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : HandOverAcc_02(horef : HORF) PDU Type : HOACC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match a received HANDOVER ACCESS message with handover reference ' horef'.			
Field Name	Field Value	Field Encoding	Comments
horf	horef		handover reference
Detailed Comments :			

PDU Constraint Declaration

Constraint Name : HandOverCmd_nfh(type : CH_TDMA; slot : SN; tsc : TSC; ncc, bcc : B_3; sdccharfcn, tcharfcn : INTEGER; horf : HORF; pwlvl : B_5; synchi : SYNCHI; chmod : CHMOD; rtdif : TDIF; ta : TA; cphms : CPHMS)

PDU Type : HO_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A parameterised HANOVER COMMAND for non hopping.

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00101011'B		
cd	CellDescrp(ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_nfh(type, slot, tsc, tcharfcn)		
horf	horf		from PIXIT
pcmd	Pcmd_20(pwlvl)		
synchi	synchi		
frqsl_at	–		
frql_at	–		
cchd	–		
dmsc	–		Phase 2+
ch1mod	chmod		
modchs2	–		Phase 2+
modchs3	–		Phase 2+
modchs4	–		Phase 2+
modchs5	–		Phase 2+
modchs6	–		Phase 2+
modchs7	–		Phase 2+
modchs8	–		Phase 2+
ch2d_at	–		
ch2mod	–		
frqchs_at	–		
ma_at	–		
strt	–		
rtdif	rtdif		
ta	ta		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		
vgcstmi	–		Phase 2+

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : HandOverCmd_nfh_vgcs (type : CH_TDMA; slot : SN; tsc : TSC; ncc, bcc : B_3; sdccharfcn, tcharfcn : INTEGER; horf : HORF; pwlvl : B_5; synchi : SYNCHI; chmod : CHMOD; rtdif : TDIF; ta : TA; vgcs:VGCSTMI) PDU Type : HO_CMD_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A parameterised HANDOVER COMMAND for non hopping.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		from PIXIT
rrpd	'0110'B		
mt	'00101011'B		
cd	CellDescrp(ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_nfh (type, slot, tsc, tcharfcn)		
horf	horf		
pcmd	Pcmd_20(pwlvl)		
synchi	synchi		
frqsl_at	–		
frql_at	–		
cchd	–		Phase 2+
dmsc	–		
ch1mod	chmod		
modchs2	–		
modchs3	–		
modchs4	–		
modchs5	–		
modchs6	–		
modchs7	–		
modchs8	–		
ch2d_at	–		Phase 2+
ch2mod	–		
frqchs_at	–		
ma_at	–		
strt	–		
rtdif	rtdif		
ta	ta		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		Phase 2+
frqchs_bt	–		
ma_bt	–		
cphms	–		
vgcstmi	vgcs		
Detailed Comments :			

PDU Constraint Declaration

Constraint Name : HandOverCmd_fh(type : CH_TDMA; slot : SN; tsc : TSC; ncc, bcc : B_3; sdccharfcn, mod, hsn : INTEGER; horf : HORF; pwlv1 : B_5; synchi : SYNCHI; frql1, frql2 : FRQL; cchd : CCHD; chmod : CHMOD; frqchs : FRQCHS; ma : MA; rtdif : TDIF; ta : TA; cphms : CPHMS)

PDU Type : HO_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A derived HANDOVER COMMAND containing TCH/F_FH in non synchronized new CELL A.

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00101011'B		
cd	CellDescrp(ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_fh(type, slot, tsc, INT_TO_BIT((TSPX_MAIO MOD mod), 6), INT_TO_BIT(hsn, 6))		
horf	horf		Hand over reference
pcmd	Pcmd_20(pwlv1)		power level
synchi	synchi		
frqsl_at	frql1		
frql_at	frql2		
cchd	cchd		
dmsc	–		Phase 2+
ch1mod	chmod		
modchs2	–		Phase 2+
modchs3	–		Phase 2+
modchs4	–		Phase 2+
modchs5	–		Phase 2+
modchs6	–		Phase 2+
modchs7	–		Phase 2+
modchs8	–		Phase 2+
ch2d_at	–		
ch2mod	–		
frqchs_at	frqchs		
ma_at	ma		
strt	–		
rtdif	rtdif		
ta	ta		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		
vgcstmi	–		Phase 2+

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmd_fh_vgcs (type : CH_TDMA; slot : SN; tsc : TSC; ncc, bcc : B_3; sdccharfcn, mod, hsn : INTEGER; horf : HORF; pwlvl : B_5; synchi : SYNCHI; frql1, frql2 : FRQL; cchd : CCHD; chmod : CHMOD; frqchs : FRQCHS; ma : MA; rtdif : TDIF; ta : TA; vgcs:VGCSTMI)

PDU Type : HO_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A derived HANDOVER COMMAND containing TCH/F_FH in non synchronized new CELL A.

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00101011'B		
cd	CellDescrp(ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_fh(type, slot, tsc, INT_TO_BIT((TSPX_MAIO MOD mod), 6), INT_TO_BIT(hsn, 6))		
horf	horf		Hand over reference
pcmd	Pcmd_20(pwlvl)		power level
synchi	synchi		
frqsl_at	frql1		
frql_at	frql2		
cchd	cchd		
dmsc	–		Phase 2+
ch1mod	chmod		
modchs2	–		Phase 2+
modchs3	–		Phase 2+
modchs4	–		Phase 2+
modchs5	–		Phase 2+
modchs6	–		Phase 2+
modchs7	–		Phase 2+
modchs8	–		Phase 2+
ch2d_at	–		
ch2mod	–		
frqchs_at	frqchs		
ma_at	ma		
strt	–		
rtdif	rtdif		
ta	ta		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		
vgcstmi	vgcs		Phase 2+

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : HandOverCmp_20			
PDU Type : HO_COM_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A basic received constraint for HANDOVER COMPLETE message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00101100'B		message type
rrcau	'00000000'B		RR cause: normal event
motdif	*		mobile observed time difference
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : HandOvFail_02			
PDU Type : HOFL_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A HANDOVER FAILURE message matching any abnormal release RR cause.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		abnormal release causes
rrpd	'0110'B		
mt	'00101000'B		
rrcau	('00000001'B, '00000010'B, '00000011'B, '00000100'B, '01101111'B)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Holdpdu_01(Ti : TI)			
PDU Type : HOLD_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?011000'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : HoldReject_01 (Ti : TI) PDU Type : HOLD_REJ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : CC HOLD REJECT n -> ms GSM 04.08, 9.3.12			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00011010'B		message type
cau	Cause_69		cause 69: requested facility not implemented
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : IDResponse_01 PDU Type : ID_RES_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An IDENTITY RESPONSE message which matches any mobile identity			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?011001'B		
mi	?		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : IDRequest_01(type : B_4) PDU Type : ID_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An IDENTITY REQUEST message with specified identity type.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'00011000'B		
shoct	'0000'B		
idtype	type		
Detailed Comments :			

PDU Constraint Declaration

Constraint Name : ImmAsgn_01Def(Rr: BITSTRING; Fn: FN; sub : B_2; slot : SN; tsc : TSC; par_arfcn : INTEGER; ta : TA)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'2D'O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
dm_tbf	Dm_TBF_def		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub)), 5), slot, tsc, par_arfcn)		SDCCH/4 subchannel
pchd	–		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_01		non hopping
strt	–		
iaroct	laRestOct_01		11 octets of '2B'O

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : ImmAsgn_nfh(Rr: BITSTRING; Fn: FN; type: CH_TDMA; slot : SN; tsc : TSC; ta : TA; arfcn: INTEGER; pgm : B_2) PDU Type : IMMASS_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An IMMEDIATE ASSIGNMENT message to assign TCH/F or TCH/H channel.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'2D'O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
dm_tbf	Dm_TBF_def		
pm	Pm(pgm)		paging mode
chd	ChDescrp_nfh(type, slot, tsc, arfcn)		Traffic channel, non hopping
pchd	–		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_01		non hopping
strt	–		
iaroct	laRestOct_01		11 octets of '2B'O
Detailed Comments :			

PDU Constraint Declaration

Constraint Name : ImmAsgn_221(Rr : BITSTRING; Fn : FN; ts_ccch : SN; tsc : TSC; par_chtype : CH_TDMA; maio : MAIO; hsn : HSN; ta : TA; ma : MA; iel : LENGTH)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((11 + OC_OctToInt(iel)) * 4) + 1, 1)		L2 pseudo length = 14 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
dm_tbf	Dm_TBF_def		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_fh(par_chtype, ts_ccch, tsc, maio, hsn)		
pchd	–		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	ma		
strt	–		
iaroct	laRestOct(iel)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name	: ImmAsgn_27(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; par_arfcn: INTEGER; ta : TA)
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PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments	: An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 NonFH channel in any cell.
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Field Name	Field Value	Field Encoding	Comments
l2_pl	'2D'O		L2 pseudo length = 11 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
dm_tbf	Dm_TBF_def		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_nfh(ts_ccch, TSPX_TscDef, TSPX_SDCCH8SubDef, par_arfcn)		SDCCH/8, non hopping,
pchd	–		
rqr	Rqr2(Rr, Fn)		
ta	ta		time advance IE
ma	MoblAllc_01		non hopping
strt	–		
iaroct	laRestOct_01		11 octets of '2B'O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_r01(Rr: BITSTRING; Fn: FN; Rr_9: BITSTRING; Fn_9: FN; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'49'O		L2 pseudo length = 18
ski	'0000'B		
rrpd	'0110'B		
mt	'00111001'B		
shoct	'0000'B		
pm	Pm(C_normal_paging)		normal mode
chd1	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubA)), 5), slot, tsc, arfcn)		SDCCH/4, non hopping, channel number 20
rqr1	Rqr2(Rr, Fn)		
ta1	ta		from PIXIT
chd2	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubB)), 5), slot, tsc, arfcn)		an another SDCCH/4 subchannel
rqr2	Rqr2(Rr_9, Fn_9)		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	'2B2B2B2B'O		

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : ImmAsgnRej_01(Rr: BITSTRING; Fn: FN)			
PDU Type : IMMASS_REJ_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'4D'O		L2 pseudo length = 19 normal mode
ski	'0000'B		
rrpd	'0110'B		
mt	'00111010'B		
shoct	'0000'B		
pm	Pm(C_normal_paging)		
rqr1	Rqr2(Rr, Fn)		
wi1	'00'H		
rqr2	Rqr2(Rr, Fn)		
wi2	'00'H		
rqr3	Rqr2(Rr, Fn)		
wi3	'00'H		
rqr4	Rqr2(Rr, Fn)		
wi4	'00'H		
iarroct	'2B2B2B'O		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : lmsiDetach_30(par:MI)			
PDU Type : IMSID_IN_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : IMSI DETACH INDICATION message matching any MS classmark1 value and given IMSI.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		any mobile station classmark1
mmpd	'0101'B		
mt	'0?000001'B		
msclm	?		
mi	par		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ImmSetupAsci_2 (asci_type : B_1; cksn : B_3) PDU Type : IMM_SETUP2_ASCI_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		spare
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		
mt	'0?110001'B		
cphks	CphKeySN_01 (cksn)		
sprho	'0000'B		
msclmrk2	ClassMark2		
mi	MiTmsi_01		
gi	GroupCallRef_Def		
c_utdi	CompUDTI_R		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ImmSetupAsci_Def (asci_type : B_1; cksn : B_3)			
PDU Type : IMM_SETUP_ASCI_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		spare
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		
mt	'0?110001'B		
cphks	CphKeySN_01 (cksn)		
sprho	'0000'B		
msclmrk2	ClassMark2		
mi	MiTmsi_01		
gi	GroupCallRef_Def		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : LocUpdtAcp(mcc, mnc, lac : OCTETSTRING) PDU Type : LUP_ACP_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A LOCATION UPDATING ACCEPT message without mobile identity and LAI of PLMN2. LAC set in TCV_lac.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		location area identification
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	—		
fop	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : LocUpdtAcp_01(newmi: MI; mcc, mnc, lac : OCTETSTRING)			
PDU Type : LUP_ACP_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : To assign a new TMSI with or without mobile identity.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		location area identification
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	newmi		
fop	–		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : LocUpdtAcp_02(mcc, mnc, lac:OCTETSTRING)			
PDU Type : LUP_ACP_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : To assign a new TMSI.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		location area identification
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	–		
fop	'10100001'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : LocUpdtReq_01(locup : B_2)			
PDU Type : LUP_RQ_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A LOCATION UPDATING REQUEST message containing location updating type.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		no check required
mmpd	'0101'B		
mt	'0?001000'B		
cphksn	?		
lutype	LocUpType(locup)		no check required
lai	?		
msclm	?		
mi	?		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : LocUpdtReq_31(par:MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn: BITSTRING) PDU Type : LUP_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A parameterised LOCATION UPDATING REQUEST message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?001000'B		
cphksn	CphKeySN_07(cksn)		
lutype	LocUpType(locup)		
lai	LocAreaId(mcc, mnc, lac)		
msclm	ClassMark1		
mi	par		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : LocUpdtRej_01(par:REJCAU) PDU Type : LUP_REJ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A LOCATION UPDATING REJECT message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'00000100'B		
rejcau	par		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : MsrReport_02			
PDU Type : MSR_RPT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A measurement report match any received MSR_RPT_PDU.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type containing any value
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_02		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : MsrReport_03			
PDU Type : MSR_RPT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A measurement report containing results for 6 strongest carriers.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type 6 strongest carriers
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_03		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : NotifFACCH_ChDescr (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) PDU Type : NT_FACCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : With channel description			
Field Name	Field Value	Field Encoding	Comments
rrspd	'0'B		RR short PD '0'B
mt	'00001'B		message type '00001'B
sl2h	'00'B		short layer 2 header
gcii	'0'B		group call information
gci	GroupCallInfo_01 (gcref, asci_sf , chDescr)		group call information
mi	–		mobile identity
chf	–		channel first
emlppi	–		eMLPP priority indicator
emlpp	–		eMLPP priority
spb	'1'B		spare bits
spd	'2B2B2B2B2B2B2B2B2B2B 2B'O		
Detailed Comments : The message has a fixed length of 20 octets.			

PDU Constraint Declaration			
Constraint Name : NotifFACCH_NoChDescr (gcref : B_27; asci_sf : B_1) PDU Type : NT_FACCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : without channel description			
Field Name	Field Value	Field Encoding	Comments
rrspd	'0'B		RR short PD '0'B
mt	'00001'B		message type '00001'B
sl2h	'00'B		short layer 2 header
gcii	'0'B		group call information
gci	GroupCallInfo_02 (gcref, asci_sf)		group call information
mi	–		mobile identity
chf	–		channel first
emlppi	–		eMLPP priority indicator
emlpp	–		eMLPP priority
spb	'1'B		spare bits
spd	'2B2B2B2B2B2B2B2B2B2B 2B2B2B2B'O		
Detailed Comments : The message has a fixed length of 20 octets.			

PDU Constraint Declaration			
Constraint Name : NotifFACCH_PagingEmlpp (emlpp: B_3) PDU Type : NT_FACCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : whitout channel description, with paging and emlpp information			
Field Name	Field Value	Field Encoding	Comments
rrspd	'0'B		paging information
mt	'00001'B		
sl2h	'00'B		
gcii	'1'B		
gci	–		
mi	MiTmsi_01		mobile identity allocated to the MS TCH/F
chf	'10'B		
emlppi	'1'B		
emlpp	emlpp		
spb	'1'B		
spd	'2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O		eMLPP priority spare bits
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : NotifNCH_ChDescr (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) PDU Type : NT_NCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Notification with a channel description (non hopping)			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'09'O		L2 pseudo length
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00100000'B		message type
gbcr1	DCR_01 (gcref , asci_sf)		descriptive group or broadcast call reference
ntnroct	NTRestOctets_01 (gcref , asci_sf , chDescr)		ntn rest octets
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : NotifNCH_ChDescr_eMLPP (gcref : B_27; asci_sf : B_1 ; chDescr : CHD; priority:B_3) PDU Type : NT_NCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Notification with a channel description (non hopping)			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'09'O		L2 pseudo length
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00100000'B		message type
gbcr1	DCR_eMLPP (gcref , asci_sf, priority)		descriptive group or broadcast call reference
ntnroct	NTRestOctets_01 (gcref , asci_sf , chDescr)		ntn rest octets
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : NotifNCH_ChDescr_Err (gcref : B_27; asci_sf : B_1 ; chDescr : CHD; unknow : UNKWN) PDU Type : NT_NCH_PDU_ERR Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Notification with a channel description (non hopping) with an unknown information element			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'09'O		L2 pseudo length
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00100000'B		message type
unknown	unknow		unknown
ntnroct	NTRestOctets_01 (gcref , asci_sf , chDescr)		ntn rest octets
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : NotifNCH_ChDescr_Skip (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) PDU Type : NT_NCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Notification with a channel description (non hopping) with an invalid skip identifier			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'09'O		L2 pseudo length
ski	'0001'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00100000'B		message type
gbcr1	DCR_01 (gcref , asci_sf)		descriptive group or broadcast call reference
ntnroct	NTRestOctets_01 (gcref , asci_sf , chDescr)		ntn rest octets
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : NotifNCH_NoChDescr (gcref : B_27; asci_sf : B_1) PDU Type : NT_NCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Notification without channel description			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'09'O		L2 pseudo length
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00100000'B		message type
gbcr1	DCR_01 (gcref , asci_sf)		descriptive group or broadcast call reference
ntnroct	NTRestOctets_02		ntn rest octets O
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : NotifNCH_ChDescr_nln (gcref : B_27; asci_sf : B_1 ; chDescr : CHD ; nln : B_2) PDU Type : NT_NCH_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Notification with a channel description (non hopping)			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'09'O		L2 pseudo length
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00100000'B		message type
gbcr1	DCR_01 (gcref , asci_sf)		descriptive group or broadcast call reference
ntnroct	NTRestOctets_chDescr_nln (gcref , asci_sf , chDescr , nln)		ntn rest octets
Detailed Comments : The message has a fixed length of 23 octets.			

PDU Constraint Declaration			
Constraint Name : NotifResponse_01 PDU Type : NT_RES_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'0?100110'B		message type M BITSTRING [8]
msclm	ClassMark2		mobile station classmark 2 information M OCTETSTRING [4]
mi	Milmsi_01iei		mobility identity M OCTETSTRING [2..9]
gbcr	?		descriptive group or broadcast call reference M OCTETS [4.5]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PagingRes_01 PDU Type : PG_RES_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received PAGING RESPONSE message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00100111'B		
shoct	'0000'B		
cphksn	?		no check requirement
msclm	?		no check requirement
mi	?		no check requirement
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PagingRes_03(cksn : B_3) PDU Type : PG_RES_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match a received PAGING RESPONSE message with default TMSI, CKSN and classmark2.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00100111'B		
shoct	'0000'B		
cphksn	CphKeySN_01(cksn)		TSPX_CKSNDf
msclm	ClassMark2		
mi	MiTmsi_01		TSPX_TMSI
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp1_01 PDU Type : PG1_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the mobile identity is TMSI.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'25'O		L2 pseudo length = 9
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_01		TSPX_TMSI
mi2	–		
p1roct	'2B2B2B2B2B2B2B2B2B2B2B'O		
p1roct2	–		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp1_GCI (gcref : B_27; asci_sf : B_1 ; chDescr : CHD) PDU Type : PG1_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE1 message with group call information in the rest octets, the mobile identity is not allocated to MS			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'25'O		
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_r01		TSPX_TMSI
mi2	–		
p1roct	–		
p1roct2	P1RestOctets_GCI (gcref, asci_sf , chDescr)		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp1_GCI_NoChDescr (gcref : B_27; asci_sf : B_1) PDU Type : PG1_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE1 message with group call information in the rest octets, the mobile identity is not allocated to MS.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'25'O		L2 pseudo length = 9
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_r01		not allocated to MS
mi2	–		
p1roct	–		
p1roct2	P1RestOctets_GCI_NoChDescr (gcref, asci_sf)		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp1_PCH (nln : B_2) PDU Type : PG1_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the mobile identity is not allocated to MS			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'25'O		L2 pseudo length = 9
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_r01		TSPX_TMSI
mi2	–		
p1roct	–		
p1roct2	P1RestOctets_PCH (nln)		phase 2+
Detailed Comments :			

PDU Constraint Declaration

Constraint Name	: PgReqTp1_eMLPP (priority : B_3)
PDU Type	: PG1_RQ_PDU
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: An PAGING REQUEST TYPE1 message with eMLPP priority included, the mobile identity is allocated to MS

Field Name	Field Value	Field Encoding	Comments
l2_pl	'25'O		L2 pseudo length = 9
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_01		TSPX_TMSI
mi2	–		
p1roct	–		
p1roct2	P1RestOctets_eMLP (priority)		phase 2+

Detailed Comments :

PDU Constraint Declaration

Constraint Name	: PgReqTp1Norm
PDU Type	: PG1_RQ_PDU
Derivation Path	: PgReqTp1_01.
Encoding Rule Name	:
Encoding Variation	:
Comments	: PAGING REQUEST TYPE1 message containing normal paging mode, used as paging filling message.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'15'O		L2 pseudo length = 5
mi1	Milmsi_02		
p1roct	'2B2B2B2B2B2B2B2B2B2B2B2B2B'O		no identity

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : PgReqTp1Reorg			
PDU Type : PG1_RQ_PDU			
Derivation Path : PgReqTp1_01.			
Encoding Rule Name :			
Encoding Variation :			
Comments : PAGING REQUEST TYPE1 message containing paging reorganisation mode, used as paging filling message.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(Milmsi_02)) * 4) + 1, 1)		paging reorganisation no identity
pm	Pm(C_reorg_paging)		
mi1	Milmsi_02		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B'0, 19 – OC_LengthOf(Milmsi_02))		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp2_PCH (nln : B_2)			
PDU Type : PG2_RQ_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the mobile identity is not allocated to the IUT.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'2D'O		L2 pseudo length = 11
ski	'0000'B		
rrpd	'0110'B		
mt	'00100010'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_r01		not the IUT
mi2	Tmsi_r03		
mi3	–		
p2roct	–		'2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O
p2roct2	P2RestOctets_PCH (nln)		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp2_PCH_eMLPP (priority : B_3) PDU Type : PG2_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the mobile identity is allocated to the IUT.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'2D'O		L2 pseudo length = 11
ski	'0000'B		
rrpd	'0110'B		
mt	'00100010'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_01		not the IUT
mi2	Tmsi_r03		
mi3	–		
p2roct	–		'2B2B2B2B2B2B2B2B2B'O
p2roct2	P2RestOctets_PCH_eMLP P (priority)		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp3_PCH (nln : B_2) PDU Type : PG3_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode. The 1rst, 2nd, 3rd and 4th one address another MSs. Including NCH information in rest octets.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'4D'O		
ski	'0000'B		
rrpd	'0110'B		
mt	'00100100'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_extended_paging)		extended paging
mi1	Tmsi_r05		the IUT
mi2	Tmsi_r01		an another MS
mi3	Tmsi_r03		an another MS
mi4	Tmsi_r04		an another MS
p3roct	–		
p3roct2	P3RestOctets_PCH (nln)		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PgReqTp3_PCH_eMLPP (priority : B_3) PDU Type : PG3_RQ_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode. The 2nd, 3rd and 4th one address another MSs. Including NCH information in rest octets with priority.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'4D'O		
ski	'0000'B		
rrpd	'0110'B		
mt	'00100100'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_extended_paging)		extended paging
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		an another MS
mi3	Tmsi_r03		an another MS
mi4	Tmsi_r04		an another MS
p3roct	–		
p3roct2	P3RestOctets_PCH_eMLP P (priority)		phase 2+
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Phyinfor_01(ta : TA) PDU Type : PHYINFO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00101101'B		message type
ta	ta		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : RegisterPdu_03(fie : FIE) PDU Type : REGISTER_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match a received REGISTER message			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
sspd	'1011'B		non call related supplementary services protocol discriminator
mt	'0?111011'B		message type
fie	fie		facility
ssvi	*		SS version indicator
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Release_03 (Ti : TI) PDU Type : REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CC RELEASE message containing cause #31 to be sent to the MS.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00101101'B		message type
cau	Cause_11		#31 normal unspecified
cau2	–		second cause
fie	–		facility
uu	–		user–use
ssvi	–		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Release_10(Ti : TI) PDU Type : REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A CC RELEASE message used to match any received CC RELEASE message with a controllable TI.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?101101'B		message type
cau	*		cause
cau2	*		second cause
fie	*		facility
uu	*		user–use
ssvi	*		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmpRcv (Ti :TI; cau : CAU) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A RELEASE COMPLETE message containing cause value = #81. ms -> n			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	'0011'B		CC protocol discriminator
mt	'0?101010'B		
cau	cau		cause value #81
fie	*		facility
uu	*		user–user information
ssvi	*		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmp_03(Ti : TI) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received RELEASE message.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		CC protocol discriminator
cc_sspd	'0011'B		
mt	'0?101010'B		
cau	*		
fie	*		
uu	*		
ssvi	*		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmp_08(Ti :TI) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A RELEASE COMPLETE message containing mandatory IEs only. n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		CC protocol discriminator
cc_sspd	'0011'B		
mt	'00101010'B		
cau	—		
fie	—		
uu	—		
ssvi	—		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseCmp_09(Ti :Ti; fie : FIE) PDU Type : REL_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A RELEASE COMPLETE message containing facility IE. n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		SS protocol discriminator
cc_sspd	'1011'B		
mt	'00101010'B		
cau	-		facility
fie	fie		
uu	-		
ssvi	-		SS version
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ReleaseReq_inv_01(Ti : TI) PDU Type : REL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : An invalid RELEASE message containing unknown optional IE.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00101101'B		message type
cau	Cause_09		unknown optional IEI, length =1, arbitrary contents
cau2	-		
fie	-		
uu	-		
ssvi	-		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_01(ti : TI) PDU Type : SETUP_MT_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SETUP message containing speech bearer capability. n -> ms.			
Field Name	Field Value	Field Encoding	Comments
ti	ti		'0000'B
ccpd	'0011'B		
mt	'00000101'B		message type
bcrl	-		
bcap1	Bcap_Speech_MT		speech
bcap2	-		
fiel	-		
pi	-		
sig	-		
cgpn	-		
cgps	-		
cdpn	-		
cdps	-		
llcri	-		
llcmp1	-		
llcmp2	-		
hlcri	-		
hlcmp1	-		
hlcmp2	-		
uu	-		
pr	-		priority
alert	-		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_02(bcap: BCAP) PDU Type : SETUP_MO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SETUP message containing speech bearer capability. ms -> n			
Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	'0011'B		
mt	'0?000101'B		message type
bcri	—		
bcap1	bcap		speech full rate only or dual rate
bcap2	—		
fie	*		
cgps	*		
cdpn	?		
cdps	*		
llcri	*		
llcmp1	*		
llcmp2	*		
hlcri	*		
hlcmp1	*		
hlcmp2	*		
uu	*		
ssvi	*		SS version ms -> n
clirsup	*		CLIR suppression ms -> n
clirinv	*		CLIR invocation ms -> n
cccap	*		call control capabilities ms->n
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_04(bcap: BCAP) PDU Type : ESETUP_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A Emergency call SETUP message with/without speech bearer capability. ms -> n.			
Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	'0011'B		
mt	'0?001110'B		message type
bcap	bcap IF_PRESENT		full rate emergency call if not present
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_10_UDI(bcap: BCAP; llc1 : LLCMP; hlc1 : HLCMP) PDU Type : SETUP_MO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SETUP message containing bearer capability supported by the mobile station, used for Unrestricted digital information transfer capability. ms -> n.			
Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	'0011'B		
mt	'0?000101'B		message type
bcricri	—		
bcap1	bcap		
bcap2	—		
fi	*		
cgps	*		calling party subaddr. O OCTETSTRING [2..23]
cdpn	?		called party BCD number ms -> n M OCTETSTRING[2..23]
cdps	*		called party subaddr. O OCTETSTRING [2..23]
llcri	—		LLC repeat indicator O OCTETSTRING [1]
llcmp1	llc1		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	—		low layer compatib.2 n -> ms C; ms -> n O
hlcri	—		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	hlc1 IF_PRESENT		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	—		high layer compat. 2 n -> ms C; ms -> n O
uu	*		user-user information O OCTETSTRING [3..35]
ssvi	*		SS version ms -> n O OCTETSTRING [2..3]
clirsup	*		CLIR suppression ms -> n C
clirinv	*		CLIR invocation ms -> n O
cccap	CallCntrlCap IF_PRESENT		call control capabilities ms->n O
Detailed Comments :			

PDU Constraint Declaration

Constraint Name : Setup_10_3100(bcap: BCAP; llc1 : LLCMP; hlc1 : HLCMP)
PDU Type : SETUP_MO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message containing bearer capability supported by the mobile station. used for 3.1 kHz audio information transfer capability. ms -> n.

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	'0011'B		
mt	'0?000101'B		message type
bcricri	—		
bcap1	bcap		
bcap2	—		
fiel	*		
cgps	*		calling party subaddr. O OCTETSTRING [2..23]
cdpn	?		called party BCD number ms -> n M OCTETSTRING[2..23]
cdps	*		called party subaddr. O OCTETSTRING [2..23]
llcri	—		LLC repeat indicator O OCTETSTRING [1]
llcmp1	llc1 IF_PRESENT		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	—		low layer compatib.2 n -> ms C; ms -> n O
hlcri	—		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	hlc1 IF_PRESENT		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	—		high layer compat. 2 n -> ms C; ms -> n O
uu	*		user-user information O OCTETSTRING [3..35]
ssvi	*		SS version ms -> n O OCTETSTRING [2..3]
clirsup	*		CLIR suppression ms -> n C
clirinv	*		CLIR invocation ms -> n O
cccap	CallCntrlCap IF_PRESENT		call control capabilities ms->n O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_11_3100(bcri1: RPI; bcap, bcap2nd: BCAP; llc1, llc2 : LLCMP; llcri1, hlcri1 : RPI ; hlc1, hlc2 : HLCMP)

PDU Type : SETUP_MO_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A SETUP message containing two bearer capabilities supported by the mobile station, used for 3.1 kHz audio information transfer capability. ms -> n.

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	'0011'B		
mt	'0?000101'B		message type
bcri	bcri1		
bcap1	bcap		
bcap2	bcap2nd		
fie	*		
cgps	*		calling party subaddr. O OCTETSTRING [2..23]
cdpn	?		called party BCD number ms -> n M OCTETSTRING[2..23]
cdps	*		called party subaddr. O OCTETSTRING [2..23]
llcri	llcri1 IF_PRESENT		LLC repeat indicator O OCTETSTRING [1]
llcmp1	llc1 IF_PRESENT		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	llc2 IF_PRESENT		low layer compatib.2 n -> ms C; ms -> n O
hlcri	hlcri1 IF_PRESENT		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	hlc1 IF_PRESENT		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	hlc2 IF_PRESENT		high layer compat. 2 n -> ms C; ms -> n O
uu	*		user-user information O OCTETSTRING [3..35]
ssvi	*		SS version ms -> n O OCTETSTRING [2..3]
clirsup	*		CLIR suppression ms -> n C
clirinv	*		CLIR invocation ms -> n O
cccap	CallCntrlCap IF_PRESENT		call control capabilities ms->n O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_20(par: BCAP; ti : TI)

PDU Type : SETUP_MT_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A SETUP message containing bearer capability supported by the mobile station.

Field Name	Field Value	Field Encoding	Comments
ti	ti		'0000'B
ccpd	'0011'B		
mt	'00000101'B		message type
bcrl	—		
bcap1	par		
bcap2	—		
fi	—		
pi	—		
sig	—		
cgpn	—		
cgps	—		
cdpn	—		
cdps	—		
llcri	—		
llcmp1	—		
llcmp2	—		
hlcri	—		
hlcmp1	—		
hlcmp2	—		
uu	—		
pr	—		priority
alert	—		

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : Setup_21(par1 : RPI; par2, par3 : BCAP; ti : TI)			
PDU Type : SETUP_MT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A SETUP message containing two bearer capabilities supported by the mobile station.			
Field Name	Field Value	Field Encoding	Comments
ti	ti		'0000'B
ccpd	'0011'B		
mt	'00000101'B		message type
bcri	par1		
bcap1	par2		
bcap2	par3		
fie	—		
pi	—		
sig	—		
cgpn	—		
cgps	—		
cdpn	—		
cdps	—		
llcri	—		
llcmp1	—		
llcmp2	—		
hlcri	—		
hlcmp1	—		
hlcmp2	—		
uu	—		
pr	—		priority
alert	—		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SetupInd_01 PDU Type : SETUP_MO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : To match any received SETUP message			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		
ccpd	'0011'B		
mt	'0?000101'B		
bcric	*		BC repeat indicator
bcap1	?		bearer capab.
bcap2	*		bearer capab.
fi	*		facility
cgps	*		calling party subaddr.
cdpn	?		called party BCD number
cdps	*		called party subaddr.
llcri	*		LLC repeat indicator
llcmp1	*		low layer compatib.1
llcmp2	*		low layer compatib.2
hlcri	*		HLC repeat indicator
hlcmp1	*		high layer compat.1
hlcmp2	*		high layer compat.
uu	*		user-user information
ssvi	*		SS version
clirsup	*		CLIR suppression
clirinv	*		CLIR invocation
cccap	CallCntrlCap IF_PRESENT		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_Asci_01 (asci_type : B_1) PDU Type : SETUP_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'0?110010'B		message type
gcr	GroupCallRef_Def		Group call reference
utd	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_VBS_01 PDU Type : SETUP_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier
gcpd	'0001'B		Group call control protocol discriminator
mt	'0?110010'B		message type
gcr	GroupCallRef_Def		Group call reference
utd	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_Asci_UUS (asci_type : B_1; cpa_uu : UU) PDU Type : SETUP_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'0?110010'B		message type
gcr	GroupCallRef_Def		Group call reference
utd	cpa_uu		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SetupInd_GCorVB			
PDU Type : SETUP_ASCII_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : To match any received SETUP message for mobile originating VBS or VGCS call.			
Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier
gcpd	'000?'B		Group call control protocol discriminator
mt	'0?110010'B		message type
gcr	?		Group call reference
utd	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SetParameter_vgcs (ti:TI ; da, ua, comm, oi : B_1) PDU Type : SET_PAR_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : VGCS SET PARAMETER , n -> ms GSM 04.68 GSM 04.69, 8.4			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	'0000'B		Group call control protocol discriminator
mt	'00111010'B		message type
sprho	'0000'B		spare half octet
sta	StateAttribute (da, ua, comm, oi)		state attributes
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_cause (asci_type : B_1; ti:TI ; causev : INTEGER) PDU Type : STATUS_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Satus message containing the state attribute information element.			
Field Name	Field Value	Field Encoding	Comments
ti	ti		
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		
mt	'0?111000'B		message type
cause	Cause_Asci (INT_TO_BIT(causev,7))		Cause
cst	*		Call state 'A--'
sta	*		state attributes
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_Def (asci_type : B_1; ti:TI ; state:B_4) PDU Type : STATUS_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		
mt	'0?111000'B		message type
cause	?		Cause
cst	CS_asci_01 (state)		Call state 'A--'
sta	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_SA (ti:TI ; asci_type : B_1; state:B_4; da, ua, comm, oi : B_1) PDU Type : STATUS_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Satus message containing the state attribute information element.			
Field Name	Field Value	Field Encoding	Comments
ti	ti		
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		
mt	'0?111000'B		message type
cause	?		Cause
cst	CS_asci_01 (state)		Call state 'A-'
sta	StateAttribute (da, ua, comm, oi)		state attributes
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SyncInfor(bcc : BCC; ncc : NCC) PDU Type : SCHINFO_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ncc	ncc		PLMN colour code
bcc	bcc		BS colour code
t1	?		
t2	?		
t3_	?		
Detailed Comments : 1. The values of t1, t2 and t3_ shall be correctly set by the L2 simulation module when this message is sent to air on the synchronization channel. It is assumed that there is a set of timebase counters in the L2 module, these counters run continuously and keep the correct timeslot number SN and TDMA frame number FN as long as the test system is poweron , the T1, T2, T3' (values for t1, t2 and t3_) can be derived from these counters.			

PDU Constraint Declaration			
Constraint Name : SysInf1(cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1) PDU Type : SYSINFO1_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Default parameters for cell A in RR testing of GSM 900			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'55'O		L2 pseudo length = 21
ski	'0000'B		
rrpd	'0110'B		
mt	'00011001'B		ARFCNs: 20, 30, 50, 70 rach control parameters
cchd	cchd		
rachcp	RachCntrlPara(maxtx, txint, re)		
si1roct	SI1RestOctetDef		'2B'O
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf1_asciDef (cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1; nch_pos : B_5) PDU Type : SYSINFO1_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Default parameters for cell A in ASCII testing			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'55'O		L2 pseudo length = 21
ski	'0000'B		
rrpd	'0110'B		
mt	'00011001'B		rach control parameters
cchd	cchd		
rachcp	RachCntrlPara(maxtx, txint, re)		
si1roct	SI1RestOctet_asciDef (nch_pos)		NCH
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf2(bcchfl: NCD; maxtx : B_2; txint : B_4; re : B_1; nccp : NCCP)			
PDU Type : SYSINFO2_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : SYSTEM INFORMATION TYPE2 containing default neighbour cells description			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'59'O		L2 pseudo length = 22
ski	'0000'B		
rrpd	'0110'B		
mt	'00011010'B		
bcchfl	bcchfl		
nccp	nccp		NCC to be monitored
rachcp	RachCntrlPara(maxtx, txint, re)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf2bis(bcchflegsm : NCD)			
PDU Type : SYSINFO2bis_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : SYSTEM INFORMATION 2bis in cell A for EGSM testing			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'55'O		L2 pseudo length
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00000010'B		message type
xbcchfl	bcchflegsm		
rachcp	RachCntrlPara_r01		rach control parameters
si2bisroct	'2B'O		SI2bis rest octet
Detailed Comments :			

PDU Constraint Declaration

Constraint Name	: SysInI3(ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)
------------------------	--

PDU Type : SYSINFO3_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : CCCH combined or not with SDCCH

Field Name	Field Value	Field Encoding	Comments
l2_pl	'49'O		L2 pseudo length = 18
ski	'0000'B		
rrpd	'0110'B		
mt	'00011011'B		
ci	ci		
lai	LocAreald(mcc, mnc, lac)		MCC= 001, MNC= 01, LAC= 0001
ccd	ccd		
co	co		DTX not allowed
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
si3roct	SI3RestOctetDef		'2B2B2B2B'O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf4(mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)

PDU Type : SYSINFO4_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments	: A SYSTEM INFORMATION TYPE 4 message containing default values
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Field Name	Field Value	Field Encoding	Comments
l2_pl	'31'O		L2 pseudo length = 12
ski	'0000'B		
rrpd	'0110'B		
mt	'00011100'B		
lai	LocAreaId(mcc, mnc, lac)		
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
cbchd	–		
cbchma	–		
si4roct	SI4RestOctetDef		'2B2B2B2B2B2B2B2B2B2B 'O

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : SysInf4_asci_cell (mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)			
PDU Type : SYSINFO4_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : A SYSTEM INFORMATION TYPE 4 message containing default values			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'31'O		L2 pseudo length = 12
ski	'0000'B		
rrpd	'0110'B		
mt	'00011100'B		
lai	LocAreaId(mcc, mnc, lac)		
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
cbchd	–		
cbchma	–		
si4roct	SI4RestOctetDef_asci		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf4_CBMS(mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1; cbchd : CHD)			
PDU Type : SYSINFO4_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : To send a SYSTEM INFORMATION TYPE 4 message for SMSCB with the values or GSM 11.10, 34.3			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'41'O		L2 pseudo length = 16
ski	'0000'B		
rrpd	'0110'B		
mt	'00011100'B		
lai	LocAreald(mcc, mnc, lac)		
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
cbchd	cbchd		
cbchma	–		
si4roct	SI4RestOctet_CBMS		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf5(bcchfl: NCD) PDU Type : SYSINFO5_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : SYSTEM INFORMATION TYPE 5 containing default neighbour cells description for GSM900			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00011101'B		
bcchfl	bcchfl		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf5bis(bcchfl: NCD) PDU Type : SYSINFO5bis_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : SYSTEM INFORMATION TYPE 5bis containing partial neighbour cells description			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00000101'B		message type
xbcchfl	bcchfl		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf6(ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; nccp : NCCP) PDU Type : SYSINFO6_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SYSTEM INFORMATION TYPE 6 message containing default parameters for RR testing.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00011110'B		message type
ci	ci		cell identity
lai	LocAreald(mcc, mnc, lac)		
co	co		DTX not allowed, RadioTimeout = 8
nccp	nccp		ncc permitted
si6roct	SI6RestOctetDef		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf6_nolnbPag (ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; nccp : NCCP) PDU Type : SYSINFO6_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SYSTEM INFORMATION TYPE 6 message containing default parameters for RR testing.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00011110'B		message type
ci	ci		cell identity
lai	LocAreald (mcc, mnc, lac)		
co	co		DTX not allowed, RadioTimeout = 8
nccp	nccp		ncc permitted
si6roct	SI6RestOctet_nolnbPag		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf6_nln (ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; nccp : NCCP; nln : B_2; nlns : B_1) PDU Type : SYSINFO6_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SYSTEM INFORMATION TYPE 6 message containing default parameters for RR testing.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00011110'B		message type
ci	ci		cell identity
lai	LocAreaId (mcc, mnc, lac)		
co	co		DTX not allowed, RadioTimeout = 8
nccp	nccp		ncc permitted
si6roct	SI6RestOctet_nln (nln , nlns)		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SysInf10Def PDU Type : SYSINFO10_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : A SYSTEM INFORMATION TYPE 10 message containing no information in SI10 rest octets.			
Field Name	Field Value	Field Encoding	Comments
rrpd	'0'B		RR short protocol discriminator
mt	'00000'B		message type
sl2h	'00'B		short layer 2 header
si10roct	SI10RestOctetNoInfo		SI10 rest octets – no information
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : TalkerInd_01 PDU Type : TK_IND_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00010001'B		message type
msc	ClassMark2		Mobile station classmark 2
mi	MiTmsi_01		Mobile identity
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Termination_Def (ti:TI; asci_type : B_1; causev:B_7) PDU Type : TERM_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110100'B		message type
cause	Cause_Asci (causev)		Cause M LV OCTETSTRING [2–248]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : TerminationReject_Def (ti:TI; asci_type : B_1; causev:INTEGER) PDU Type : TERM_RJ_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator
mt	'00110110'B		message type
cause	Cause_Asci (INT_TO_BIT(causev,7))		Cause
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : TerminationRq_Def (ti:TI; asci_type : B_1; callRef:B_27) PDU Type : TERM_RQ_ASCII_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M BITSTRING [4]
gcpd	INT_TO_BIT (((BIT_TO_INT (asci_type)) +1) MOD 2 , 4)		Group call control protocol discriminator M BITSTRING [4]
mt	'0?110101'B		message type M BITSTRING [8]
gcr	GroupCallRef_02 (callRef)		Group call reference M OCTETSTRING [4]
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : TmsiReallocComp PDU Type : TMSIRE_COM_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : TMSI REALLOCATION COMPLETE message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?011011'B		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkAccess_Def PDU Type : UP_ACC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Subsequent talker uplink access.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'110?????'B		Subsequent talker uplink request
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkAccess_Reply PDU Type : UP_ACC_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : Reply on uplink access request			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'00100101'B		Reply on uplink access request
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkBusy_01			
PDU Type : UP_BS_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00101010'B		message type
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkFree_Err (uic_par : B_6; uar : B_1)			
PDU Type : UP_FR_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Invalid message type			
Field Name	Field Value	Field Encoding	Comments
rrpd	'0'B		RR protocol discriminator
mt	'11010'B		message type
sl2h	'00'B		short layer 2 header
uar	uar		uplink access request
uici	'1'B		uplink identity code indicator
uic	uic_par		uplink identity code
sp	–		spare bits
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkFree_noUic (uar : B_1)			
PDU Type : UP_FR_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : UIC indication set to L			
Field Name	Field Value	Field Encoding	Comments
rrpd	'0'B		RR protocol discriminator
mt	'00010'B		message type
sl2h	'00'B		short layer 2 header
uar	uar		
uici	'0'B		L
uic	–		
sp	'101101'B		spare bits
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkFree_Uic (uic_par : B_6; uar : B_1)			
PDU Type : UP_FR_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Invalid message type			
Field Name	Field Value	Field Encoding	Comments
rrpd	'0'B		RR protocol discriminator
mt	'00010'B		message type
sl2h	'00'B		short layer 2 header
uar	uar		uplink access request
uici	'1'B		uplink identity code indicator
uic	uic_par		uplink identity code
sp	–		spare bits
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : UplinkRelease_01 PDU Type : UP_RL_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : cause 'Normal event'			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00001110'B		
rrcau	'00000000'B		normal event
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : VGCS_UplinkGrant_01 (Rr: BITSTRING; Fn: FN) PDU Type : VGCS_UP_GR_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00001001'B		message type
rqr	Rqr2 (Rr , Fn)		request reference
ta	TimingAdv (30)		timing advance
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : VGCS_UplinkGrant_NoTA(Rr: BITSTRING; Fn: FN) PDU Type : VGCS_UP_GR_PDU Derivation Path : Encoding Rule Name : Encoding Variation : Comments : No timing advance included			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00001001'B		message type
rqr	Rqr2 (Rr , Fn)		request reference
ta	–		timing advance
Detailed Comments :			

IV

Dynamic Part

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_1

Group : VGCS_VBS/

Purpose :

1. To verify that the MS indicates correctly the notified group/broadcast call reference(s) after receiving a NOTIFICATION/NCH or NOTIFICATION/FACCH message which contains group call reference(s) that are active in the MS.
2. To verify that the MS, on request to respond to a call notification, joins the VGCS/VBS call on the correct channel if a description for the VGCS/VBS channel is included in the NOTIFICATION message.
3. To verify that the MS, on request to respond to a call notification, establishes an RR connection to respond to the notification if no description for the VGCS/VBS channel is included in the NOTIFICATION message.
4. To verify that the MS ignores any NOTIFICATION/NCH or NOTIFICATION/FACCH which contains group call reference(s) that are not active in the MS.
5. To verify that there is no uplink transmission from the MS on TCH after the MS join the call.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (750)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+CCCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
6		+ltree_Notif_Nch			
7		+ltree_Notif_Facch			
8		ltree_Notif_Nch (TCV_Notif1 := NotifNCH_ChDescr (TSPX_VCallref_NotActive, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype, TSPX_TmSlitDef, TSPX_TscDef, TCV_arfcn_asci1)))			1.
9		+Send_NotifNch (C_No, TCV_Notif1, TSPX_VCallref_NotActive, TCV_chTch1)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10		(TCV_Notif1 := NotifNCH_ChDescr (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1)))			2.
11		+Send_NotifNch (C_Yes, TCV_Notif1 , TSPX_VCallref_Active1, TCV_chTch1)			
12		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type))			4.
13		+ltree_JoinCall_withChDescr (TCV_chTch1, TSPX_VCallref_Active1)			
14		+ltree_QuitCall (TCV_chTch1)			
15		(TCV_Notif1 := NotifNCH_NoChDescr (TSPX_VCallref_Active2, TCV_VGCS_VBS_Type))			3.
16		+Send_NotifNch (C_Yes, TCV_Notif1 , TSPX_VCallref_Active2, TCV_chTch1)			
17		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active2 , TCV_VGCS_VBS_Type))			4.
18		+JoinCall_Asci (TCV_chTch1, TCV_arfcn_asci1, TSPX_VCallref_Active2)			
19		+ltree_QuitCall (TCV_chTch1)			
20		ltree_JoinCall_withChDescr (ch : LOGICCH; callref : B_27)			
21		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , ch))			5.
22		+Check_Result			
23		ltree_QuitCall (ch : LOGICCH)			
24		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		6.
25		+ PostMainLinkRel_Asci (ch, C_CallMT, C_GroupReceive)			
26		ltree_Notif_Facch			
27		+ CCCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci2 , C_arfcn_tchAsci2d)			
28		(TCV_chTch2 := TCV_chTch, TCV_arfcn_asci2 := TCV_tch_arfcn)			
29		+ltree_k1 (C_No)			
30		+ltree_k1 (C_Yes)			
31		+ltree_k2 (C_No)			
32		+ltree_k2 (C_Yes)			
33		+ltree_k3 (C_No)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	AC_0 01	+ltree_k3 (C_Yes)			
32		[TSPC_VGCS_Talking OR TSPC_VBS_Originating]			
33		+ltree_k4 (C_No)			
34		+ltree_k4 (C_Yes)			
35		ltree_k1 (chdescr_present : BOOLEAN) +Enter_Asci_GroupReceiveMode (TCV_chTch1, TSPX_VCallref_Active1, TCV_arfcn_asci1)			7 k=1
36		+ltree_SendNotif_Facch (chdescr_present)			
37		+ltree_JoinCall (chdescr_present , TCV_chTch2, TSPX_VCallref_Active1)			
38		+ltree_QuitCall (TCV_chTch2)			
39		ltree_k2 (chdescr_present : BOOLEAN) (TCV_AsciTest := FALSE)			18 k=2
40		+BasicServiceMT (C_Telephony, TSPX_MTChRateA)			
41		+CCConfigTCH (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
42		+PreEnterCCstateU10_r01 (TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			8
43		(TCV_AsciTest := TRUE)			
44		+ltree_SendNotif_Facch (chdescr_present)			
45		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type))			19
46		L?DL_DatInDisc			
47		L!DL_DatRqRel			
48		L?DL_DatInRelCmp			
49		+ChanRel_asci_cipher (TCV_chTch)			4.
50		+ltree_JoinCall (chdescr_present , TCV_chTch2, TSPX_VCallref_Active1)			
51		+ ltrees_QuitCall (TCV_chTch2)			
52		ltree_k3 (chdescr_present : BOOLEAN) (TCV_AsciTest := FALSE)			9
53		+PreEstRRConn_Asci (TCV_chtype, TCV_slot, TCV_tsc, TCV_chdescr_arfcn)			
54		(TCV_AsciTest := TRUE)			
					(P)
					10
					18
					11 k=3
					19

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
55	AC_0 02	+ltree_SendNotif_Facch (chdescr_present)	DLRelInd_01	(P)	4. 13
56		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type))			
57		L?DL_Relln			
58		+ltree_JoinCall (chdescr_present , TCV_chTch2, TSPX_VCallref_Active1)			
59		+ltree_QuitCall (TCV_chTch2)			
60	AC_0 03	ltree_k4 (chdescr_present : BOOLEAN) +Enter_Asci_GroupTransmitMode (C_asciService_default, TCV_chTch1, TSPX_VCallref_Active2, TCV_arfcn_asci1, NotifNCH_ChDescr (TSPX_VCallref_Active2 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef , TSPX_TscDef , TCV_arfcn_asci1)))	UplinkRel (TCV_chTch1, UplinkRelease_01)	(P)	12 k=4 14
61		+ltree_SendNotif_Facch (chdescr_present)			
62		(TCV_Null := OO_Join_AsciCall (TCV_crAsci, TCV_VGCS_VBS_Type))			
63		[TCV_VGCS_VBS_Type = C_VGCSType]			
64		L?DL_DatInUpRel			
65	AC_0 04	+ltree_JoinCall (chdescr_present, TCV_chTch2, TCV_crAsci)	TerminationRq (TCV_chTch1, TerminationRq_Def (TCV_TI0, TCV_VGCS_VBS_Type, TCV_crAsci))	(P)	15
66		+ltree_QuitCall (TCV_chTch2)			
67		[TCV_VGCS_VBS_Type = C_VBSType]			
68		L?DL_DatInTermRq			
69		L!DL_DatRqTerm			
70		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMO, C_GroupTransmit)	Termination (TCV_chTch1, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT(112,7)))		
71		+ltree_JoinCall (chdescr_present, TCV_chTch2, TCV_crAsci)			
72		+ltree_QuitCall (TCV_chTch2)			
73		ltree_SendNotif_Facch (chdescr_present : BOOLEAN)			
74		[chdescr_present = C_No] (TCV_Notif_Facch1 := NotifFACCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type) , TCV_Notif1 := NotifNCH_NoChDescr (TSPX_VCallref_NotActive, TCV_VGCS_VBS_Type))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
75		+Send_NotifFacch (C_No, TCV_chTch2, TCV_Notif1, TCV_Notif_Facch1, TSPX_VCallref_NotActive)			16
76		(TCV_Notif_Facch1 := NotifFACCH_NoChDescr (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type) , TCV_Notif1 := NotifNCH_NoChDescr (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type))			
77		+ Send_NotifFacch (C_Yes, TCV_chTch2, TCV_Notif1, TCV_Notif_Facch1 , TSPX_VCallref_Active1)			17
78		[chdescr_present = C_Yes]			
79		(TCV_Notif_Facch1 := NotifFACCH_ChDescr (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlDef, TSPX_TscDef, TCV_arfcn_asci2)), TCV_Notif1 := NotifNCH_ChDescr (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlDef, TSPX_TscDef, TCV_arfcn_asci2)))			
80		+Send_NotifFacch (C_Yes, TCV_chTch2, TCV_Notif1, TCV_Notif_Facch1 , TSPX_VCallref_Active1)			
		ltree_JoinCall (chdescr_present : BOOLEAN; ch:LOGICCH; callRef:B_27)			
81		[chdescr_present = C_No]			
82		+JoinCall_Asci (ch, TCV_arfcn_asci2, callRef)			
83		[chdescr_present = C_Yes]			
84		+ltree_JoinCall_withChDescr (ch, callRef)			
Detailed Comments : <ol style="list-style-type: none"> 1. NOTIFICATION/NCH with a call reference not active in the IUT and a description of VBS/VGCS channel. 2. NOTIFICATION/NCH with a call reference active in the IUT and a description of VBS/VGCS channel. 3. NOTIFICATION/NCH with a call reference active in the IUT and without description of VBS/VGCS channel. 4. MMI action requested to joint the VGCS/VBS call. 5. check that the channel is through connected and there is no uplink trnsmission for 10 seconds. 6. sends a NOTIFICATION/NCH witout channel description and with a call reference not active in the MS. 7. MS is brought into group receive mode. 8. MS is brought into CC state U10. 9. release the CC call. 10. release the RR connection on the channel ch and bring the MS back to Idle state. 11. MS is brought into dedicated mode with a signalling connection. 12. MS is brought into group transmit mode. 13. release the original dedicated signalling link. 14. release the original uplink link. 15. NOTIFICATION/FACCH with a call reference not active in the MS and without group channel description. 16. NOTIFICATION/FACCH with a call reference active in the MS and without a group channel description. 17. NOTIFICATION/FACCH with a call reference active in the MS and with a group channel description. 					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_1_2

Group : VGCS_VBS/

Purpose : 1. To verify that the MS recognises correctly different NCH positions of first block and number of blocks.
2. To verify that the MS behaves as if the NCH position field was not present when the CCCH configuration is not compatible with the NCH position.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			1
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_5, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlTA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1nonComb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn, TCV_Notif1 := NotifNCH_ChDescr (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype, TSPX_TmSlTDef, TSPX_TscDef, TCV_arfcn_asci1)))			
6		+ ltree_CheckB3			
7		+ ltree_CheckB2			
8		+ ltree_CheckCombined			
9		ltree_CheckB3			
10		+ VarlInit_NCH (C_CellA, C_cch_1nonComb, C_BABR_5, C_NchFB_3, C_NchUsed_B3, C_NchNB_1)			
	LIDL_UdatRqSysinfo1	SysInfo1_asciDef (C_BCCH_A_1, CellChDes_Omit, TCV_Max, TCV_Tx, C_noRestablishment, TCV_Nch_Pos)		2	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		+ Wait (C_T_Wait)			Wait 5s
12		(TCV_Nch := C_NCH_A_1)			3
13		+ Send_NotifNch (C_No, TCV_Notif1 , TSPX_VCallref_Active1, TCV_chTch1)			
14		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		5
15		(TCV_Nch := C_NCH_A_3)			6
16		+ ltree_NotifAccepted			
		ltree_CheckB2			
17		+ VarInit_NCH (C_CellA, C_cch_1nonComb, C_BABR_5, C_NchFB_1, C_NchUsed_B2, C_NchNB_2)			7
18		LIDL_UdatRqSysinfo1	SysInfo1_asciDef (C_BCCH_A_1, CellChDes_Omit, TCV_Max, TCV_Tx, C_noRestablishment, TCV_Nch_Pos)		
19		+ Wait (C_T_Wait1stChReq)			Wait 35s
20		+ ltree_NotifAccepted			
		ltree_NotifAccepted			
21		+ Send_NotifNch (C_Yes, TCV_Notif1 , TSPX_VCallref_Active1, TCV_chTch1)			
22		(TCV_Null := OO_Reject_AsciCall (TCV_VGCS_VBS_Type))			
23		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		
		ltree_CheckCombined			
24		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_5, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			8
25		+ Wait (C_T_Wait1stChReq)			Wait 35s
26		(TCV_Nch := C_NCH_A_2)			
27		+ Send_NotifNch (C_No, TCV_Notif1 , TSPX_VCallref_Active1, TCV_chTch1)			
Detailed Comments : 1. 1 cell , CCCH non-combined, BS_AG_BLKs_RES=5 2. configure NCH channel : first block=3 block used=3 nb of blocks =1					

Test Case Dynamic Behaviour

Detailed Comments : ...

3. NCH channel configure on block B1
4. NOTIFICATION/NCH with a valid call reference and a group channel description.
5. send a NOTIFICATION/NCH with an invalid call reference on block B1
6. NCH channel configure on block B3
7. configure NCH channel : first block=1 block used=2 nb of blocks =2
8. 1 cell, combined configuration.

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_1_3

Group : VGCS_VBS/

Purpose : To verify that:

1. when the MS in idle mode on a cell where a reduced monitoring is activated, it reads the NCH until it has received at least two NLN (NCH) being identical. Then it stops reading the NCH until it receives a PAGING REQUEST message of any TYPE containing an NLN (PCH) different from the last previously received NLN.
2. after the MS entered in group receive mode or group transmit mode it continues the reduced monitoring until it receives SI6 containing an NLN (SACCH) different from the last previously received NLN (SACCH).
3. when the MS in group receive mode or group transmit mode enters a new cell, it reads the NCH until it has received at least two messages on the NCH indicating NLN, with the two last received NLN being identical. Then it stops reading the NCH until it receives SI6 on the SACCH an NLN(SACCH) different from the last previously received NLN.
4. the MS understands the change of the NLN status field.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (600)			
2		+ IdleUpdated_Asci (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Cell)			
3		+ StartCellB_Asci (C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Sys4ro_Default)			1.
4		+ BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
5		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
6	body	+ ltree_CheckPaging (1, '01'B)			
7		+ ltree_CheckPaging (2, '10'B)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8		+ Switchcell_Asci (C_CellA, C_CellB, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI, C_cch_1nonComb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			
9		+ ltree_CheckPaging (3, '11'B)			
10		+ ltree_CheckSysInfo6			
11		[TSPC_VGCS_Talking OR TSPC_VBS_Originating]			
12		+ ltree_CheckGroupTransmitMode			
13		+ ltree_Handover			
14		ltree_CheckPaging (k : INTEGER ; nln : B_2)			
15		+ ltree_Check_NotifNln (nln)			Cell A
16		+ ltree_SendPaging (k, nln)			
17		+ Wait (C_T_Wait1)			
18		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active1))			
19		+Check_Result			
20		[(k=1) OR (k=2)]			2
21		(TCV_Null := OO_Reject_AsciCall (TCV_VGCS_VBS_Type))			
22		[k=3]			4
23		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type))			
24		ltree_SendPaging (k : INTEGER ; nln : B_2)			
25		[k =1]			
26		LIDL_UdatRqPg1Rq	PgReq1 (TCV_PgCh, TCV_Pgg, PgReqTp1_PCH (nln))		5
27		[k =2]			
28		LIDL_UdatRqPg2Rq	PgReq2 (TCV_PgCh, TCV_Pgg, PgReqTp2_PCH (nln))		6
29		[k =3]			
30		LIDL_UdatRqPg3Rq	PgReq3 (TCV_PgCh, TCV_Pgg, PgReqTp3_PCH (nln))		7
31		ltree_Check_NotifNln (nlnValue : B_2)			
32		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_nln (TSPX_VCallref_NotActive, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1), '00'B))		8
33		+ Wait (C_T_Wait1)			Wait 1s

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_nln (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_arfcn_asci1) , nlnValue))		9
32		ltree_CheckSysInfo6 +Varinit_fix (C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0B, TSPX_IMSI)			
33		+ VarInit_NCH (C_CellA, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			Cell B
34		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_nln (TSPX_VCallref_Active1, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_arfcn_asci1) , '11'B))		9
35		(TCV_Null := OM_ChangeRFOf2Cells (C_CellA, C_E_default, C_CellB, C_E_suitable))			10
36		+ Wait (C_T_Wait1stChReq)			Wait 35s
37		+ ltree_NotifSys6 (TCV_sacch , '01'B, '0'B, TSPX_VCallref_Active2)			
38		ltree_NotifSys6 (sacch_ch :LOGICCH; nln : B_2; nlns:B_1; callRef : B_27) LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_nln (callRef, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_arfcn_asci1) , nln))		9
39		LIDL_UdatRqSysinfo6	SysInfo6 (sacch_ch , SysInf6_nln (C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2, nln, nlns))		
40		+ Wait (C_T_Wait)			Wait 5s
41		(TCV_Res := OO_CheckNotifInd (callRef))			
42		+ Check_Result			
43		(TCV_Null := OO_Reject_AsciCall (TCV_VGCS_VBS_Type))			
		ltree_CheckGroupTransmitMode			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		(TCV_Null := OO_VGCS_RequestUplinkAccess (TCV_crAsci))			
45		L ? DL_RacInUpAcc (TCV_Rr := DL_RacInUpAcc.msg.ecau_rrf, TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
46		L ? DL_RacInUpAcc	UpAccess (UplinkAccess_Def)		
47		L ! DL_UDatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch)		Broadca sted on the main DCCH
48		L ! DL_UDatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch , VGCS_UplinkGrant_01 (TCV_Rr, TCV_Fn))		
49		L ? DL_EstInTkInd	TalkerIndication (TalkerInd_01, TCV_chTch)		
50		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
51		+ Check_Result			
52		+ ltree_NotifSys6 (TCV_sacch , '01'B, '0'B, TCV_crAsci)			
		ltree_Handover			
53		(TCV_chTch1 := TCV_chTch)			
54		+local_ch_config			
55		L!DL_DatRqHoCmd (DL_DatRqHoCmd.msg.strt:= TCV_Strt)	HndOvSnd (TCV_chTch1, TCV_HoCMD)		
56		+RR_hocomp3_hoacc_opt (500, TCV_chTch)			
57		+ltree_NotifSys6 (TCV_sacch_B, '00'B, '0'B, TCV_crAsci)			
58		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupTransmit)			
		local_ch_config			
59		(TCV_n := 500, TCV_Horf:= TSPX_HoRefB, TCV_ts := TSPX_TmSlitB, TCV_tsc := TSPX_TscB, TCV_chtype := '00001'B, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlB, 5))			
60		+FullRateCh_B_1_nociph_Asci (C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, 19, 15)			
61		+local_set_arfcn_B			
62		(TCV_HoCMD := HandOverCmd_nfh_vgcs (TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, Vgcstmi_01))			
63		+ VarInit_NCH (C_CellB, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			Cell B

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
64		local_set_arfcn_B			
65		[TSPC_PGSM OR TSPC_EGSM]			
66		(TCV_chdescr_arfcn := TSPX_TCHcarrierB, TCV_tch_arfcn := C_arfcn_tchAsci3)			
67		[TSPC_DCS]			
		(TCV_chdescr_arfcn := TSPX_TCHcarrierBd, TCV_tch_arfcn := C_arfcn_tchAsci3d)			
Detailed Comments : 1. To setup a physical channel as BCCH, CCCH, SDCCH4 and a traffic channel for cell B. 2. MMI action to reject the call. 4. MMI action to join the VGCS/VBS call. 5. Send a PAGING REQUEST TYPE 1 with the NLN included. 6. Send a PAGING REQUEST TYPE 2 with the NLN included. 7. Send a PAGING REQUEST TYPE 3 with the NLN included. 8. Send a NOTIFICATION/NCH with a group channel description, an invalid call reference and with the NLN included in the rest octets information element. 9. Send a NOTIFICATION/NCH with a group channel description, a valid call reference and with the NLN included in the rest octets information element.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_1_4

Group : VGCS_VBS/

Purpose : To verify that while in state MM IDLE and service state LIMITED SERVICE:
 1.The MS rejects requests from user to respond to notifications for which no channel description has been received in the notification by the RR sub-layer.
 2.The MS indicates notifications for which a channel description has been received in the notification.
 3.The MS accepts user requests to respond to notifications for which channel description has been received in the notification and goes to the service state RECEIVING GROUP CALL (LIMITED SERVICE).

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)	LocRej (TCV_ch, LocUpdtRej_01(C_rc_LAnotallowed))		1
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_5, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_Restablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0 , C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ MM_PwrOrSimOn (C_SIMneedRmv)			
6		+ MM_LuplNit5 (C_normal_updating, TimingAdv(30))			
7		LIDL_DatRqLupRej			
8		+ ChanRel(TCV_ch)			
9		+ ltree_withoutChDescr			
10		+ ltree_withChDescr			
11		+ ltree_callOriginating			
12		ltree_withoutChDescr LIDL_UdatRqNtNCH			2
13		+ Wait (C_T_Wait1stChReq)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type))			
15		(TCV_Res := OO_CheckAsciReject (TCV_VGCS_VBS_Type))			3
16		+Check_Result			
17		+Wait (C_T_Wait)			wait 5 s
		ltree_withChDescr			
18		(TCV_Notif1 := NotifNCH_ChDescr (TSPX_VCallref_Active2, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1)))			
19		+ Send_NotifNch (C_Yes, TCV_Notif1 , TSPX_VCallref_Active2, TCV_chTch)			4
20		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active2 , TCV_VGCS_VBS_Type))			
21		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
22		+Check_Result			
23		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		5
24		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
		ltree_callOriginating			
25		[TSPC_VGCS_Talking OR TSPC_VBS_Originating]			
26		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
27		(TCV_Res := OO_CheckAsciReject (TCV_VGCS_VBS_Type))			3
28		+Check_Result			
29		+Wait (C_T_Wait)			wait 5 s
Detailed Comments : 1. MS enter MM idle mode limited service state, because LA is not allowed. 2. NOTIFICATION/NCH without group channel description. 3. check that the MS rejects the ASCII request. 4. send a NOTIFICATION NCH PDU with a group channel description and check if the notification is accepted or not accepted. 5. send a NOTIFICATION/NCH with an invalid call reference.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_2_1

Group : VGCS_VBS/

Purpose : It is checked that:

1. When the MS in group receive mode receives a NOTIFICATION/FACCH message on the voice group call channel containing in-band paging information, the MS provides an indication with the correct priority if applicable.
2. When the MS in group receive mode receives a paging message with the own mobile station identity on PCH, it provides an indication with the correct priority.
3. When the MS in group transmit mode receives a NOTIFICATION/FACCH message on the voice group call channel containing in-band paging information, the MS provides an indication with the correct priority.
4. If the MS in group transmit mode receives a paging message with the own mobile station identity on PCH, it provides an indication with the correct priority.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlta, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
6	body	+ ltree_CheckGroupReceive			
7		[TSPC_VGCS_Talking OR TSPC_VBS_Originating]			
8		+ ltree_CheckGroupTransmit			
9		ltree_CheckGroupReceive			
10		+ Enter_Asci_GroupReceiveMode (TCV_chTch1, TSPX_VCallref_Active1, TCV_arfcn_asci1)			k=1
11		+ ltree_CheckFacch			
12		+ ltree_CheckPaging			
		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		ltree_CheckGroupTransmit + Enter_Asci_GroupTransmitMode (C_asciService_default , TCV_chTch1 , TSPX_VCallref_Active1, TCV_arfcn_asci1, NotifNCH_ChDescr (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef , TSPX_TscDef , TCV_arfcn_asci1)))			k=2
14		+ ltree_CheckFacch			
15		[TSPC_MonitorPCH_GroupTransmitMode]			
16		+ ltree_CheckPaging			
17		+ PostMainLinkRel_Asci (TCV_chTch1, TCV_CallDirection, C_GroupTransmit)			
18		[NOT (TSPC_MonitorPCH_GroupTransmitMode)]			
19		+ PostMainLinkRel_Asci (TCV_chTch1, TCV_CallDirection, C_GroupTransmit)			
20		ltree_CheckFacch LIDL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch1, NotifFACCH_PagingEmIpp ('100'B))		2
21		LIDL_UdatRqPg1Rq	PgReq1 (TCV_PgCh, TCV_Pgg, PgReqTp1_eMLPP ('100'B))		
22		+ Wait (C_T_Wait1stChReq)			wait 30 s
23		(TCV_Res := OO_CheckPagingInfoInd (TSPC_Serv_SS_eMLPP , '100'B))			
24		+ Check_Result			
25		(TCV_Null := OO_RejectMTCall())			
26		ltree_CheckPaging LIDL_UdatRqSysinfo6	SysInfo6 (TCV_sacch , SysInf6_nolnbPag (C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2))		1
27		+ Wait (C_T_Wait)			wait 5s
28		+ ltree_CheckPaging1 (1, '011'B)			
29		+ ltree_CheckPaging1 (2, '110'B)			
30		+ ltree_CheckPaging1 (3, '000'B)			
31		ltree_CheckPaging1 (count : INTEGER ; emIpp : B_3)			
32		+ ltree_SendPagingRequest (count , emIpp)			
33		[count <> 3]			
34		(TCV_Res := OO_CheckPagingInfoInd (TSPC_Serv_SS_eMLPP , emIpp))			
35		+ Check_Result			
36		(TCV_Null := OO_RejectMTCall())			
37		+ Wait (C_T_Wait)			wait 5s
		[count = 3]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		(TCV_Res := OO_CheckNotif_NoPriority (
39		TSPC_Serv_SS_eMLPP))			
40		+ Check_Result			
		(TCV_Null := OO_RejectMTCall())			
		ltree_SendPagingRequest (count : INTEGER ;			
		emlpp : B_3)			
41		[count =1]			
42		L!DL_UdatRqPg1Rq	PgReq1 (TCV_PgCh,		
			TCV_Pgg,		
			PgReqTp1_eMLPP (emlpp		
))		
43		[count =2]			
44		L!DL_UdatRqPg2Rq	PgReq2 (TCV_PgCh,		
			TCV_Pgg,		
			PgReqTp2_PCH_eMLPP (
			emlpp))		
45		[count =3]			
46		L!DL_UdatRqPg3Rq	PgReq3 (TCV_PgCh,		
			TCV_Pgg,		
			PgReqTp3_PCH_eMLPP (
			emlpp))		without priority
Detailed Comments : 1. SYSINFO 6 message indicating no in-band paging on FACCH. 2. NOTIFICATION/FACCH with in-band paging information addresses to MS.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_2_2

Group : VGCS_VBS/

Purpose : To verify that
 1.the MS in idle mode indicates correctly an incoming broadcast or group call when having received a PAGING REQUEST TYPE 1 message whose P1 rest octets information element contains group call information addressing the MS.
 2.the MS in group receive mode indicates correctly an incoming broadcast or group call when having received a PAGING REQUEST TYPE 1 message whose P1 rest octets information element contains group call information addressing the MS.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_ImmAsgn, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci2, C_arfcn_tchAsci2d)			
5		(TCV_chTch2 := TCV_chTch, TCV_arfcn_asci2 := TCV_tch_arfcn)			
6	body	+ ltree_CheckIdle			
7		+ ltree_CheckGroupReceive			
8		ltree_CheckIdle (TCV_Null := OM_ImmAsgnFill_NCH (TCV_Nch, C_CellA, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(0))))			
9		+ ltree_CheckWithDescr			
10		+ PostMainLinkRel_Asci (TCV_chTch2, C_CallMT, C_GroupReceive)			
11		+ ltree_CheckWithoutDescr (TSPX_VCallref_Active2)			
12		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active2, TCV_VGCS_VBS_Type))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		+ JoinCall_Asci (TCV_chTch2, TCV_arfcn_asci1, TSPX_VCallref_Active2)			
14		+ PostMainLinkRel_Asci (TCV_chTch2, C_CallMT , C_GroupReceive)			
15		ltree_CheckGroupReceive + IdleUpdated_ASCi (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
16		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci2, C_arfcn_tchAsci2d)			
17		(TCV_chTch2 := TCV_chTch, TCV_arfcn_asci2 := TCV_tch_arfcn)			
18		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
19		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
20		(TCV_Null:=OM_ImmAsgnFill_NCH (TCV_Nch, C_CellA, ImmAsgn_01Def (TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(0))))			
21		+ ltree_CheckWithDescr			
22		+ ltree_CheckWithoutDescr (TSPX_VCallref_Active1)			
23		(TCV_Null := OO_Reject_AsciCall (TCV_VGCS_VBS_Type))			
24		+ PostMainLinkRel_Asci (TCV_chTch2 , C_CallMT, C_GroupReceive)			
		ltree_CheckWithDescr			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		L!DL_UdatRqPg1Rq	PgReq1 (TCV_PgCh, TCV_Pgg, PgReqTp1_GCI (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci2)))		1
26		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_NotActive))			
27		+Check_NoResult			
28		(TCV_Res := OM_NoUplinkTransmission_Asci (TCV_chTch2))			
29		+Check_Result			
30		L!DL_UdatRqPg1Rq	PgReq1 (TCV_PgCh, TCV_Pgg, PgReqTp1_GCI (TSPX_VCallref_Active2, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci2)))		2
31		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active2))			
32		+Check_Result			
33		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active2 , TCV_VGCS_VBS_Type))			
34		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch2))			
35		+Check_Result			
		Itree_CheckWithoutDescr (callref : B_27)			
36		L!DL_UdatRqPg1Rq	PgReq1 (TCV_PgCh, TCV_Pgg, PgReqTp1_GCI_NoChDescr (callref , TCV_VGCS_VBS_Type))		3
37		(TCV_Res := OO_CheckNotifInd (callref))			
38		+Check_Result			
Detailed Comments : 1. PAGING REQUEST TYPE 1 message with a description of the VGCS/VBS channel and a call reference not active in the MS. 2. PAGING REQUEST TYPE 1 message with a description of the group call channel and a valid call reference 3. PAGING REQUEST TYPE 1 message without channel description and with a valid call reference					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_1

Group : VGCS_VBS/

Purpose : To verify that after receiving a FREQUENCY REDEFINITION message in group transmit mode, the MS starts using the new frequencies and hopping sequence at the time indicated in the message.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (700)			
2		(TCV_CAgsm := Ca1_g01, TCV_freq := Freq_rg23, TCV_CAgsm.rfl := TCV_freq.flst.fl, TCV_CAdcs := Ca1_g01, TCV_freq := Freq_rd23, TCV_CAdcs.rfl := TCV_freq.flst.fl)			
3		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, TCV_CAgsm, TCV_CAdcs, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			1.
4		+ PreEnter_Asci_GTM (C_Full , C_asciService_default , TSPX_VCallref_Active4 , TSPX_SDCCH4SubDef , TSPX_TCHHSubDef , C_Ass , TSPX_TmSlitF , TSPX_TscF , TimingAdv(30) , C_BABR_1 , C_cch_1Comb , C_BPM_3 , Freq_rg23 , Freq_rd23 , C_arfcn_tchAsci1 , C_arfcn_tchAsci1d , 19 , 15)			
5		[TSPC_PGSM OR TSPC_EGSM]			
6		(TCV_cchd1 := TCV_CAgsm, TCV_CAgsm := Ca2_g06, TCV_CAdcs := Ca3_g06)			2.
7		+test(TCV_CAgsm, TCV_CAdcs, Ma1_g06, Ma2_g06, Ma3_g06, 6, 4, 15000, ChDescrp_tchf_fh(TSPX_TmSlitF, TSPX_TscF, '001000'B, '000000'B))			
8		[TSPC_DCS]			
9		(TCV_cchd1 := TCV_CAdcs, TCV_CAgsm := Ca2_d06, TCV_CAdcs := Ca3_d06)			3.
10		+test(TCV_CAgsm, TCV_CAdcs, Ma1_g06, Ma2_g06, Ma3_g06, 6, 4, 15000, ChDescrp_tchf_fh(TSPX_TmSlitF, TSPX_TscF, '001000'B, '000000'B))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		test(Ca2, Ca3 : CCHD; Ma1, Ma2, Ma3 : MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
12		+Check(TCV_cchd1, Ma1, tm, Chd)			
13		+ltree_freqRedef(Ca2, Ma2, Maio2, tm , Chd)			
14		+ltree_freqRedef(Ca3, Ma3, Maio3, tm, Chd)			
		+ltree_release			
		ltree_freqRedef(ca: CCHD; ma: MA; maio, tm : INTEGER; chd: CHD)			
15		[NOT TCV_Res]			
16		[TCV_Res]			
17		(TCV_Fn := OM_ComingFn(TCV_chTch, TCV_chd1 := chd, TCV_chd1.maio := INT_TO_BIT(maio, 6), TCV_Strt := OC_StartTime(TCV_Fn, tm, 0), TCV_Null := OM_SendNextOn(TCV_chTch, TCV_Fn), TCV_Null := OM_FreqDef(TCV_Strt, ma, TCV_chTch, TCV_chd1, ca, TCV_Fn))			
18		LIDL_DatRqFrqre	FrqRedfSnd(TCV_chTch, FreqRedef_01(TCV_chd1, ma, TCV_Strt, ca))		
19		+Check(ca, ma, tm, chd)			
		ltree_release			
20		[NOT TCV_Res]			
21		(TCV_Null := OM_StopCell(C_CellA))			
22		[TCV_Res]			
23		+PostMainLinkRel_Asci (TCV_chTch, TCV_CallDirection, C_GroupTransmit)			
24		(TCV_Null := OM_StopCell(C_CellA))			
		Check(ca: CCHD; ma: MA; tm : INTEGER; chd: CHD)			
25		(TCV_Res := OM_FHCHK(TCV_sacchTch, ca, ma, chd, tm, TCV_Fn))			
26		[NOT TCV_Res]		(F)	
27		+PostMainLinkRel_Asci (TCV_chTch, TCV_CallDirection, C_GroupTransmit)			
28		[TCV_Res]		(P)	
Detailed Comments : 1. To perform test on TCH/FS channel. 2. TCV_CAgsm, TCV_CAdcs contain two cell allocation values for GSM. 3. TCV_CAgsm, TCV_CAdcs contain two cell allocation values for DCS.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_2

Group : VGCS_VBS/

Purpose : 1. To verify that upon receipt of an ASSIGNMENT COMMAND in group transmit mode, the MS switches to the channel defined in the ASSIGNMENT COMMAND, establishes the link and sends an ASSIGNMENT COMPLETE message.

1.1 from non-hopping TCH/F to hopping TCH/F using a different timeslot;

1.2 from hopping TCH/F to non-hopping TCH/F using a different timeslot;

2. To verify that the MS, supporting TCH, having sent an MM- or CM message which was not acknowledged on L2 before the channel assignment procedure was initiated and before the MS has left the old channel, repeats that message after completion of the assignment procedure without incrementing N(SD). This is tested in the special case of MM message AUTHENTICATION RESPONSE.

3. To verify that, if the MS has received an ASSIGNMENT COMMAND message which contains only the description of a channel to be used after the starting time, and if the starting time has not already elapsed, the mobile station waits up to the starting time before accessing the channel.

4. To verify that the MS having received an ASSIGNMENT COMMAND, correctly decodes the Mobile Allocation and Frequency List IEs for frequency hopping and applies the specified frequencies using the correct Cell Allocation.

5. To verify that after receipt of the ASSIGNMENT COMMAND the MS returns an ASSIGNMENT COMPLETE without undue delay.

6. To test that, when the MS fails to seize the new channel, the MS reactivates the old channel.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_15, CellChDes_15d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ PreEnter_Asci_GTM (C_Full , C_asciService_default , TSPX_VCallref_Active5 , TSPX_SDCCH4SubDef , TSPX_TCHHSubDef , C_Ass , TSPX_TmSltA , TSPX_TscA , TimingAdv(30) , C_BABR_1 , C_cch_1Comb , C_BPM_3 , FreqTCH_omit , FreqTCH_omit , C_arfcn_tchAsci1 , C_arfcn_tchAsci1d , 19 , 15)			
4	body	+ltree_Asgn1			
5		+ltree_AssCh_complete (TCV_ch, TCV_chTch, TCV_AssCmd)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		(TCV_Null := OM_NoL2Ack(1, TCV_chTch))			
7		L!DL_DatRqAuthRq	AuthReq(TCV_chTch, AuthRequest(TSPX_CKSNDDef, TSPX_RANDDef))		
8		L?DL_DatInAuthRes (TCV_Mt := DL_DatInAuthRes.msg.mt)	AuthRes(AuthResponse)		
9		+ltree_Asgn2			
10		+ltree_AssCh_complete1 (TCV_chTch, TCV_chTch1, TCV_AssCmd)			
11		L?DL_DatInAuthRes (TCV_Mt1 := DL_DatInAuthRes.msg.mt)	AuthRes(AuthResponse)		
12		+SendSeqNo_chk			
13		+ltree_Asgn3			
14		+AssCh_failure (TCV_chTch1, TCV_AssCmd, FALSE)			
15		+PostMainLinkRel_Asci (TCV_chTch1, TCV_CallDirection, C_GroupTransmit)			
		ltree_AssCh_complete1 (oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU)			
16		L!DL_DatRqAssCmd	AssCmd(oldch,pdu_ass)		
17		(TCV_Fn := OM_ReturnFn(oldch))			
18		L?DL_EstIn	DLEstInd(newch)		
19		L?DL_DatInAssCom (TCV_Fn1 := DL_DatInAssCom.fn)	AssCmp(newch, AsgnCmp_02)		
20		L!MDL_RelRq	MDLRelReq(oldch)		
21		+Check_Time (C_T_AssCmd, TCV_Fn, TCV_Fn1)			
		ltree_AssCh_complete (oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU)			
22		L!DL_DatRqAssCmd	AssCmd(oldch,pdu_ass)		
23		(TCV_L1Head := OM_GetL1Hd(TCV_sacchTch), TCV_Fn := OM_ReturnFn(oldch))			
24		L?DL_EstIn	DLEstInd(newch)		
25		L?DL_DatInAssCom (TCV_Fn1 := DL_DatInAssCom.fn)	AssCmp(newch, AsgnCmp_02)		
26		L!MDL_RelRq	MDLRelReq(oldch)		
27		+Check_Time (C_T_AssCmd, TCV_Fn, TCV_Fn1)			
28		[TCV_L1Head.mspwrIvl <> '00111'B]		(F)	
29		[TCV_L1Head.mspwrIvl = '00111'B]		(P)	
		ltree_Asgn1			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_sl2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSl2Def) + 1) MOD 8), 3), TCV_Fn := OM_ComingFn(TCV_ch), TCV_Fn1 := OC_FnInc(TCV_Fn, 100), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn), TCV_Fn:=TCV_Fn1)			
31		[TSPC_PGSM OR TSPC_EGSM]			
32		+Config_FACCHF_A_1(C_E_default, 7, ChMod_iei(TSPX_modF), C_Ass, TCV_sl2, TSPX_TscDef, FreqTCHa3, C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3)			
33		+SysInfo_SacchSending_asci (TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
34		(TCV_AssCmd := AsgnCmd_tchf_fh_Asci (TCV_sl2, TSPX_TscDef, 7, '000001'B, '000001'B, Frql_omit, CellChDes_Omit, ChMod(TSPX_modF), MobilAllc_r01, StartingTm_01(TCV_Fn1), CphMod_omit, Vgcstmi_01))			
35		[TSPC_DCS]			
36		+Config_FACCHF_A_1(C_E_default, 7, ChMod_iei(TSPX_modF), C_Ass, TCV_sl2, TSPX_TscDef, FreqTCHa8, C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3)			
37		+SysInfo_SacchSending_asci (TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
38		(TCV_AssCmd := AsgnCmd_tchf_fh_Asci (TCV_sl2, TSPX_TscDef, 7, '000001'B, '000001'B, Frql_omit, CellChDes_Omit, ChMod(TSPX_modF), MobilAllc_r01, StartingTm_01(TCV_Fn1), CphMod_omit, Vgcstmi_01))			
		ltree_Asgn2			
39		(TCV_chTch1 := C_FACCHF_A_2, TCV_sacchTch1 := C_SACCHF_A_2, TCV_sl2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSl2Def) + 3) MOD 8), 3))			
40		[TSPC_PGSM OR TSPC_EGSM]			
41		+Config_FACCHF_A_2(C_E_default, 16, ChMod_iei(TSPX_modF), C_Ass, TCV_sl2, TSPX_TscDef, FreqTCH(C_arfcnA), C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3)			
42		+SysInfo_SacchSending_asci (TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
43		(TCV_AssCmd := AsgnCmd_nfh_Asci ('00001'B, TCV_sl2, TSPX_TscDef, 16, C_arfcnA, CellChDes_r03, ChMod(TSPX_modF), StartingTm_omit, CphMod_omit, Vgcstmi_omit))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44		[TSPC_DCS]			
45		+Config_FACCHF_A_2(C_E_default, 12, ChMod_iei(TSPX_modF), C_Ass, TCV_sl2, TSPX_TscDef, FreqTCH(C_arfcnAd_4), C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3)			
46		+SysInfo_SacchSending_asci (TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
47		(TCV_AssCmd := AsgnCmd_nfh_Asci ('00001'B, TCV_sl2, TSPX_TscDef, 12, C_arfcnAd_4, CellChDes_r01, ChMod(TSPX_modF), StartingTm_omit, CphMod_omit, Vgcstmi_omit))			
48		ltree_Asgn3 (TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_sl2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSl2Def) + 2) MOD 8), 3))			
49		[TSPC_PGSM OR TSPC_EGSM]			
50		+Config_FACCHF_A_1 (C_E_default, 14, ChMod_iei(TSPX_modF), C_Ass, TCV_sl2, TSPX_TscDef, FreqTCH(C_arfcnA), C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3)			
51		+SysInfo_SacchSending_asci (TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
52		(TCV_AssCmd := AsgnCmd_nfh_Asci ('00001'B, TCV_sl2, TSPX_TscDef, 12, C_arfcnA, CellChDes_Omit, ChMod(TSPX_modF), StartingTm_omit, CphMod_omit, Vgcstmi_01))			
53		[TSPC_DCS]			
54		+Config_FACCHF_A_1 (C_E_default, 9, ChMod_iei(TSPX_modF), C_Ass, TCV_sl2, TSPX_TscDef, FreqTCH(C_arfcnAd_4), C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3)			
55		+SysInfo_SacchSending_asci (TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
56		(TCV_AssCmd := AsgnCmd_nfh_Asci ('00001'B, TCV_sl2, TSPX_TscDef, 12, C_arfcnAd_4, CellChDes_Omit, ChMod(TSPX_modF), StartingTm_omit, CphMod_omit, Vgcstmi_01))			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_3

Group : VGCS_VBS/

Purpose : 1. To verify that, when the MS is ordered to make a non-synchronised handover it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION message from the SS.

2. To verify that the MS correctly handles the values of any Starting Time IE in the HANDOVER COMMAND message in the case when none of the information elements referring to before the starting time are present.

3. To verify that the MS correctly handles the Timing Advance IE in the PHYSICAL INFORMATION message.

4. To verify that the MS activates the new channel correctly and transmits the HANDOVER COMPLETE message without undue delay.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(3000)			5 mn.
2		(TCV_asscmd_ts := TSPX_TmSlitA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
3		+IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(20), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_201_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
4		+StartCellB_ho_Asci (C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 100, C_Sys4ro_Default)			frame number in cell B is 100 in advance of frame number in cell A.

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Test Case Dynamic Behaviour							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
5	body	+ PreEnter_Asci_GTM (C_Full , C_asciService_default , TSPX_VCallref_Active1 , TSPX_SDCCH4SubDef , TSPX_TCHHSubDef , C_Ass , TCV_asscmd_ts , TCV_tsc , TimingAdv(20) , C_BABR_1 , C_cch_1Comb , C_BPM_3 , FreqTCH_omit , FreqTCH_omit , TSPX_TCHcarrierA_ho , TSPX_TCHcarrierA_hod , C_MaxPwrLvIG, C_MaxPwrLvID)			starting time is set to 1.1 s pluse 100 frames		
6		(TCV_M := 1, TCV_ch := TCV_chTch)					
7		REPEAT local_handover UNTIL [TCV_M = 4]					
8		+PostMainLinkRel_Asci (TCV_ch, TCV_CallIDirection, C_GroupTransmit)					
		local_handover					
9		(TCV_chTch1 := TCV_ch)					
10		+local_channel_config					
11		+local_send_hoCMD					
12		+RR_hocomp1(TCV_n, TimingAdv(TCV_T), TCV_chTch1)					
13		+local_firstburst_ontime_CHK					
14		(TCV_M := TCV_M + 1)					
		local_send_hoCMD					
15		[TCV_M = 3]					
16		(TCV_Fn := OM_ComingFn(TCV_chTch1), TCV_Null:= OM_SendNextOn(TCV_chTch1, TCV_Fn), TCV_Strt := OC_StartTime(TCV_Fn, (C_StartingTimeHO + 100), 1))					
17		LIDL_DatRqHoCmd (HndOvSnd(TCV_chTch1, TCV_HoCMD)	
18		DL_DatRqHoCmd.msg.strt:= TCV_Strt)					
19		[C_Yes] LIDL_DatRqHoCmd				HndOvSnd(TCV_chTch1, TCV_HoCMD)	
		local_channel_config					
20		+local_ch_config					
21		(TCV_ch := TCV_chTch, TCV_Null:= OM_SendNextOnHO(TCV_ch, TCV_Cntref))					
		local_ch_config					
22		[TCV_M = 1]					1.
23		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccA, TCV_T := 20, TCV_Horf:= TSPX_HoRefA, TCV_ts := TSPX_TmSltB, TCV_tsc := TSPX_TscB, TCV_chtype := '00001'B)					

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24		+FullRateCh_B_1_Asci (C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(TCV_T), C_BABR_1, C_cch_1Comb, C_BPM_3, 19, 15)			
25		+local_set_arfcn_B			
26		(TCV_HoCMD := HandOverCmd_nfh_vgcs (TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, Vgcstmi_01))			
27		[TCV_M = 2]			2.
28		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccB, TCV_T := TSPX_TimadvA, TCV_ts := TSPX_TmSltNotZero, TCV_Horf := TSPX_HoRefB, TCV_tsc := TSPX_TscC, TCV_chtype := '00001'B)			
29		+FullRateCh_A_1_Asci (C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHa_hof1, FreqTCHa_hof1d, C_Noarfcn, C_Noarfcn, TimingAdv(TCV_T), C_BABR_1, C_cch_1Comb, C_BPM_3, 19, 15)			
30		+local_handover2			
31		[TCV_M = 3]			3.
32		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccC, TCV_T := 20, TCV_ts := TSPX_TmSltC, TCV_Horf := TSPX_HoRefC, TCV_tsc := TSPX_TscC, TCV_chtype := '00001'B)			
33		+FullRateCh_B_1_Asci (C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(TCV_T), C_BABR_1, C_cch_1Comb, C_BPM_3, 19, 15)			
34		+local_set_arfcn_B			
35		(TCV_HoCMD := HandOverCmd_nfh_vgcs(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), TCV_ChMod, RelTmdDif_omit, TimingAdv_omit, Vgcstmi_02))			
		local_set_arfcn_B			
36		[TSPC_PGSM OR TSPC_EGSM]			
37		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho, TCV_tch_arfcn := TSPX_TCHcarrierB_ho)			
38		[TSPC_DCS]			
39		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod, TCV_tch_arfcn := TSPX_TCHcarrierB_hod)			
		local_firstburst_ontime_CHK			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
40		[TCV_M = 3]			
41		+FnArith(TCV_FnBurst, TCV_Strt.fn)			
42		[(TCV_Time > 5) OR (TCV_Time < 0)]		(F)	4.
43		[(TCV_Time >= 0) AND (TCV_Time <= 5)]		(P)	
44		[C_Yes]			
		local_handover2			
45		[TSPC_PGSM OR TSPC_EGSM]			
46		(TCV_HoCMD := HandOverCmd_fh_vgcs (TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_arfcnA, 12, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_Omit, ChMod_omit, Freqchseq_22, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, Vgcstmi_01))			
47		[TSPC_DCS]			
48		(TCV_HoCMD := HandOverCmd_fh_vgcs (TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_arfcnAd_4, 9, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frqls_20_Ad, Frql_omit, CellChDes_Omit, ChMod_omit, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, Vgcstmi_01))			
Detailed Comments : 1. HO from TCH/F_nonFH of cell A to TCH/F_nonFH in CELL B 2. HO from TCH/F_nonFH of cell B to TCH/F_FH in CELL A 3. HO from TCH/F_FH of cell A to TCH/F_nonFH in CELL B 4. Starting time check. The first handover access burst starts too late or too early. (10ms means 2 frames tolerance for TCH/H channel, 5ms means 1 frame tolerance for TCH/F channel)					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_4_1

Group : VGCS_VBS/

Purpose : 1. To verify that the mobile correctly applies the handover procedures from non frequency hopping SDCCH/4 to TCH/F with or without frequency hopping in the non-synchronized case during group or broadcast call establishment.

2. To verify that, if during call establishment a Layer 3 MM or CC message just sent by the MS is not Layer 2 acknowledged before the channel change caused by the HANDOVER COMMAND message, the MS sends the Layer 3 message to the new cell, using the same value in the N(SD) field, after the handover procedure.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(3000)			5 mn.
2		+ BasicServiceMO_Asci (C_Full, C_asciService_default)			
3		(TCV_ts:= C_S0, TCV_Cntref:= TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
5		+StartCellB_ho_Asci (C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_1, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0, C_Sys4ro_Default)			The time slots of Cells A and B are not coincident at the antenna connector.
6		+FullRateCh_B_1_Asci (C_Asynho, TCV_ts, TSPX_TscA, TCV_ChMod, FreqTCHb_hof3, FreqTCHb_hof3d, TimingAdv(20), C_BABR_1, C_cch_1Comb, C_BPM_3, 19, 15)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
7	body	+Est_MO_Call_init_Asci (C_CHSDCCH4_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), C_BCC, C_one, C_one)	SetupRcv_Asci (SetupInd_GCorVB)		1.
8		+local_varinit			
9		+ltree_sendHoCMD			
10		+RR_hocomp1 (500, TimingAdv(20), TCV_chTch1)			
11	post	L?DL_DatInSetup_asci (TCV_Mt := DL_DatInSetup_asci.msg.mt)			3.
12		+SendSeqNo_chk			
13		+PostMainLinkRel_Asci (TCV_ch, TCV_CallDirection, C_GroupTransmit)			
14		ltree_sendHoCMD			
15		[TSPC_PGSM OR TSPC_EGSM] L!DL_DatRqHoCmd	HandOvSnd(TCV_chTch1, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscA, C_NCC_3, C_BCC_0, TCV_chdescr_arfcn, 15, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_06, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
16		[TSPC_DCS]			
17		L!DL_DatRqHoCmd	HandOvSnd(TCV_chTch1, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscA, C_NCC_3, C_BCC_0, TCV_chdescr_arfcn, 11, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_20_B5d, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
18		local_varinit (TCV_chTch1 := TCV_ch, TCV_ch := TCV_chTch, TCV_Tchtype := '00001'B, TCV_Null:= OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
19		[TSPC_PGSM OR TSPC_EGSM]			
20		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		[TSPC_DCS]			
22		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod)			
Detailed Comments : 1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2. 2. HO from SDCCH/4_nonFH to TCH/F_FH. 3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg. 4. Check of the sequence number.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_4_2

Group : VGCS_VBS/

Purpose : 1. To verify that the MS correctly applies the handover procedure from SDCCH/8 with or without frequency hopping to TCH/F with or without frequency hopping in the non-synchronized case during group or broadcast call establishment.

2. To verify that, if during call establishment a Layer 3 MM or CC message just sent by the MS is not Layer 2 acknowledged before the channel change caused by the HANDOVER COMMAND message, the MS sends the Layer 3 message to the new cell, using the same value in the N(SD) field, after the handover procedure.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(3000)			5mn.
2		+ BasicServiceMO_Asci (C_Full, C_asciService_default)			
3		(TCV_ts:= C_S0, TCV_Cntref:= TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefH, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlID, 5))			
4		+IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
5		(TCV_ia_ts:= TSPX_TmSlitNotZero)			
6		+SDCCH8_A_1_nociph_Asci (TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscA, ChMod_sign, FreqSDCCHa_hof1, FreqSDCCHa_hof1d, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
7	body	+StartCellB_ho_Asci (C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0, C_Sys4ro_Default)			The time slots of Cells A and B are not coincident at the antenna connector.
8		+FullRateCh_B_1_Asci (C_Asynho, TCV_ts, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(20), C_BABR_1, C_cch_1Comb, C_BPM_3, 19, 15)			
9		+Est_MO_Call_init_Asci (C_CHSDCCH8_FH, MoblAllc_281, MoblAllc_281d, TimingAdv(30), TSPX_TscA, 3, 3)			1.
10		+local_varinit			
11		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch1, HandOverCmd_nfh(TCV_Tchtype, TCV_ts, TSPX_TscC, C_NCC_3, C_BCC_0, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
12	post	+RR_hocomp1 (500, TimingAdv(20), TCV_chTch1)			
13		L?DL_DatInSetup_asci (TCV_Mt := DL_DatInSetup_asci.msg.mt)	SetupRcv_Asci (SetupInd_GCorVB)		3.
14		+SendSeqNo_chk			4.
15		+PostMainLinkRel_Asci (TCV_chTch1, TCV_CallDirection, C_GroupTransmit)			
16		local_varinit (TCV_chTch1 := TCV_ch, TCV_ch := TCV_chTch, TCV_Tchtype := '00001'B, TCV_Null:= OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
17		[TSPC_PGSM OR TSPC_EGSM]			
18		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho, TCV_tch_arfcn:= TSPX_TCHcarrierB_ho)			
19		[TSPC_DCS]			
20		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod, TCV_tch_arfcn:= TSPX_TCHcarrierB_hod)			

Test Case Dynamic Behaviour

Detailed Comments : 1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH8_FH to TCH/F_NFH
3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.
4. To check whether the sending sequence number is matched with the last unacknowledged one.

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_5

Group : VGCS_VBS/

Purpose : To verify that after a HANDOVER COMMAND message and subsequent handover failure in group transmit mode, the MS returns to the old channel.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Pwrlvl_ho:= '01000'B)			
3		+IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubC, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd , TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			1.
4		+StartCellB_Asci (C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noReestablishment, C_BCC, C_NCC, C_Sys4ro_Default)			2.
5		+FullRateCh_B_1_Asci (C_Ass, TSPX_TmSltC, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TSPX_PwrlvlA, TSPX_PwrlvlA)			
6		+ PreEnter_Asci_GTM (C_Full , C_asciService_default , TSPX_VCallref_Active3 , TSPX_SDCCH4SubC , TSPX_TCHHSubDef , C_Ass , TSPX_TmSltDef , TSPX_TscDef , TimingAdv(30) , C_BABR_1 , C_cch_1Comb , C_BPM_3 , FreqTCH_omit , FreqTCH_omit , C_arfcn_tchAsci1 , C_arfcn_tchAsci1d , TSPX_MSTxpwrMax, TSPX_MSTxpwrMax)			

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Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
7	body	(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chTch1 := C_FACCHF_B_1, TCV_sacchTch1 := C_SACCHF_B_1, TCV_L1Head0 := OM_GetL1Hd(TCV_sacchTch), TCV_Fn1 := OM_ComingFn(TCV_chTch), TCV_Null := OM_SendNextOn(TCV_chTch, TCV_Fn1))				
8		+I_hoCMD				
9		ACTIVATE(RcvHdOvAcc, OtherEventsFail_01)				
10		+I_hofl				
		I_hofl				
11		L?DL_RacInHoacc				HndOvAccRcv(TCV_chTch1, HandOverAcc_02(TSPX_HoRefC))
12		L?DL_EstIn				DLEstInd(TCV_chTch)
13		(TCV_HoaccPara := OM_GetHoaccPara(TCV_chTch1), TCV_L1Head := OM_GetL1Hd(TCV_sacchTch))				
14		L?DL_DatInHofl (TCV_Fn := DL_DatInHofl.fn)				HndOvFIRcv(TCV_chTch, HandOvFail_02)
15		+Check_Time(3000, TCV_Fn1, TCV_Fn)				
16		+Check_HoaccPara(0, TCV_Pwrlvl_ho, TCV_HoaccPara)				
17		+PostMainLinkRel_Asci (TCV_chTch1, TCV_CallDirection, C_GroupTransmit)				
18		[TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]				(P)
19		[TCV_L1Head.mspwrlvl <> TCV_L1Head0.mspwrlvl]				(F)
		I_hoCMD				
20		(TCV_Tchtype := '00001'B)				
21		[TSPC_PGSM OR TSPC_EGSM]				
22	L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSlitC, TSPX_TscC, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefC, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))				
23		[TSPC_DCS]				

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSlitC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefC, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
Detailed Comments : 1. To setup BCCH, CCCH, SDCCH4 for cell A. 2. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell B. 3. Non-synchronised handover, power level = 8. 4. On old channel. 5. Power level is the old one (TSPX_MSTxpwrMax)					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_3_6

Group : VGCS_VBS/

Purpose : To verify that, when the SS gives information of more than 6 neighbouring cells, the MS in group transmit mode reports measurement results for the 6 strongest BCCH carriers with known and allowed NCC part of BSIC.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(3000)			5 mn
2		+IdleUpdated_ASCI (C_E_neighbourdefault, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_21, BcchFreqLst_Omit, BcchFreqLst_27, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_2, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+StartMultiCells_02_asci (BcchFreqLst_21, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_Sys4ro_Default)			
4		+local_execution(1, 1, 2)			
5		+local_execution(2, 1, 3)			
6		local_execution(k , indx1, indx2 : INTEGER) + PreEnter_Asci_GTM (C_Full , C_asciService_default , TSPX_VCallref_Active3 , TSPX_SDCCH4SubA , TSPX_TCHHSubDef , C_Ass , TSPX_TmSlTDef , TSPX_TscDef , TimingAdv(30) , C_BABR_1 , C_cch_1Comb , C_BPM_3 , FreqTCH_omit , FreqTCH_omit , C_arfcn_tchAsci1 , C_arfcn_tchAsci1d, 7, 3)			
7		+local_SendSyInfo5and6 (k)			
8		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
9		L ? DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
10		+ChkMsrmntRpt (indx1, indx2)			
11		START T_dly1(960)			
12		?TIMEOUT T_dly1			
13		+PostMainLinkRel_Asci (TCV_chTch, TCV_CallDirection, C_GroupTransmit)			
				(F)	960 ms 1.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03)		
15		+ChkMsrmntRpt (indx1, indx2)			
16		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
17		+PostMainLinkRel_Asci (TCV_chTch, TCV_CallIDirection, C_GroupTransmit)			
		local_SendSyInfo5and6 (k : INTEGER)			
18		[k <> 2]			
19		[k = 2]			
20		+Wait (C_T_Wait1)			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacchTch , SysInf5(BcchFreqLst_28))		
23		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacchTch , SysInf5bis (BcchFreqLst_30))		
24		L!DL_UdatRqSysinfo6	SysInfo6(TCV_sacchTch , SysInf6(C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2))		
25		L!DL_UdatRqSysinfo10	SysInfo10 (TCV_sacchTch , SysInf10Def)		
26		[TSPC_DCS]			
27		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacchTch , SysInf5(BcchFreqLst_29))		
28		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacchTch , SysInf5bis (BcchFreqLst_31))		
29		L!DL_UdatRqSysinfo6 (DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)	SysInfo6(TCV_sacchTch , SysInf6(C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2))		
30		L!DL_UdatRqSysinfo10	SysInfo10 (TCV_sacchTch , SysInf10Def)		
Detailed Comments : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_4_1

Group : VGCS_VBS/

Purpose : To verify that:

- 1.The MS starts the uplink access procedure on receipt of a request from the user to access the uplink and the uplink is free.
- 2.The MS remains in group receive mode and indicates a reject of the uplink request to the user till Timer T3128 expiring.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_vgcs, TSPX_VCallref_Active5, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
4		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
5		+ ltree_CheckFreeBusy			
6		+ ltree_CheckBusy			
7		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			
8		ltree_CheckFreeBusy L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch1, UplinkFree_Uic (TSPX_UIC, '0'B))		1
9		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active5))			
10		L ? DL_RacInUpAcc (TCV_Rr := DL_RacInUpAcc. msg.ecau_rrf)	UpAccess (UplinkAccess_Def)		
11		L ? DL_RacInUpAcc (TCV_Rr1 := DL_RacInUpAcc. msg.ecau_rrf, TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
12		+ ltree_CalculateOtherRr			2
13		L ! DL_UDatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch1)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		L ! DL_UdatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch1 , VGCS_UplinkGrant_01 (TCV_Rr2, TCV_Fn))		3
15		(TCV_Res := OO_CheckAsciReject (TCV_VGCS_VBS_Type))			
16		+Check_Result			
17		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch1))			
18		+Check_Result			
		ltree_CheckBusy			
19		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active5))			
20		START T_dly (2000)			
21		L ? DL_RacInUpAcc CANCEL T_dly	UpAccess (UplinkAccess_Def)	(F)	Wait 2s
22		?TIMEOUT T_dly		(P)	
23		(TCV_Res := OO_CheckAsciReject (TCV_VGCS_VBS_Type))			
24		+Check_Result			
		ltree_CalculateOtherRr			
25		(TCV_Rr2 := OC_BinAdd (TCV_Rr, TCV_Rr1))			
Detailed Comments : 1. UPLINK FREE message with UIC and with uplink access request set to 'L'. 2. Generate a request reference different from TCV_Rr and TCV_Rr1. 3. VGCS UPLINK GRANT with a request reference different from those received in UPLINK ACCESS messages.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_4_2

Group : VGCS_VBS/

Purpose : To verify that:

1. When a request to talk is made by the user and the uplink has been free the MS in group receive mode sends UPLINK ACCESS messages on the voice group call channel with the appropriate establishment cause.
2. The first UPLINK ACCESS message is transmitted by the MS with a random delay between 0 and 20ms. The UPLINK ACCESS messages is repeated after a further period of 100ms plus a random delay between 0 and 20ms.
3. At expiration of timer T3130, the MS repeats the uplink access procedure if the uplink is free and maximum of attempts is three. After three failed attempts a rejection of the uplink request is indicated.
4. The MS stops sending UPLINK ACCESS message and remains in group receive mode and indicates a rejection of the uplink request when receiving a UPLINK BUSY or a VGCS UPLINK GRANT message aimed to another mobile station (i.e., not corresponding to one of its UPLINK ACCESS messages).
5. On receipt of an VGCS UPLINK GRANT message corresponding to one of its UPLINK ACCESS messages, the MS stops T3130, stops sending UPLINK ACCESS messages, and establishes the main signalling link with an SABM containing the TALKER INDICATION message in the information field. Controlled early classmark sending is performed. If a UA is received containing the message sent, the MS enters group transmit mode and indicates the successful uplink seizure.
6. If an uplink identity code (UIC) of the current cell has been provided by the network in the UPLINK FREE message, the mobile station shall use this UIC IE for the coding of the UPLINK ACCESS messages. If no UIC is provided, the mobile station shall use the BSIC received from the current cell, for instance from the initial synchronisation.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_vgcs, TSPX_VCallref_Active4, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
4		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
5	body	+ ltree_CheckNoUIC			
6		+ ltree_CheckUIC			
7		+ ltree_CheckBusy			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8		+ ltree_UplinkGrant			
9		ltree_CheckNoUIC			
10		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch1, UplinkFree_noUic ('0'B))		1
11		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active4))			
12		L ? DL_RacInUpAcc (TCV_Fn := DL_RacInUpAcc.fn , TCV_Res := OM_CheckAccessBurst_Asci (TRUE , DL_RacInUpAcc))	UpAccess (UplinkAccess_Def)		2
13		+Check_Result			
14		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
15		+ ltree_CheckTime (100 , 120)			
16		(TCV_Time1 := TCV_Time)			
17		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
18		+ ltree_CheckTime (5000, 5020)			
19		(TCV_Time2 := TCV_Time)			
20		(TCV_Fn := TCV_Fn1)			
21		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
22		+ ltree_CheckTime (100, 120)			
23		+ltree_CheckTimeDiff (TCV_Time1 , TCV_Time)			
24		(TCV_Time3 := TCV_Time)			
25		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
26		+ ltree_CheckTime (5000, 5020)			
27		+ltree_CheckTimeDiff (TCV_Time2 , TCV_Time)			
28		+ltree_Continue			
29		ltree_Continue			
30		(TCV_Fn := TCV_Fn1)			
31		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
32		+ ltree_CheckTime (100, 120)			
33		+ltree_CheckTimeDiff (TCV_Time , TCV_Time1)			
34		+ltree_CheckTimeDiff (TCV_Time , TCV_Time3)			
35		+ ltree_NoUplinkAccessReject			
36		ltree_CheckUIC			
37		+ltree_UplinkFreeAccess			
38		(TCV_Rr2 := OC_BinAdd (TCV_Rr, TCV_Rr1))			4

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		L ! DL_UdatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch1 , VGCS_UplinkGrant_01 (TCV_Rr2, TCV_Fn))		5
37		(TCV_Null := OM_SendNextOn(TCV_chTch1, OC_FnInc(OM_ReturnFn(TCV_chTch1) , 900* 26 / 120)))			
38		L ! DL_UdatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch1)		6
39		+ Wait (1000)			7
40		+ ltree_Reject			
		ltree_CheckBusy			
41		+ltree_UplinkFreeAccess			
42		L ! DL_UdatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch1)		
43		+ ltree_NoUplinkAccessReject			
		ltree_UplinkGrant			
44		+ltree_UplinkFreeAccess			
45		L ! DL_UdatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch1)		
46		L ! DL_UdatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch1 , VGCS_UplinkGrant_01 (TCV_Rr, TCV_Fn))		
47		L ? DL_EstInTkInd	TalkerIndication (TalkerInd_01, TCV_chTch1)	(P)	
48		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDDef, TSPX_RANDDef))		
49		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
50		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		8
51		L?DL_DatInCphmCom	CphCom(CphModeCmp_01)		
52		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch1))			
53		+Check_Result			
54		L!DL_DatRqRel START T_release	ReleaseSnd (TCV_chTch, Release_03(TI_02))		
55		L?DL_RelIn CANCEL T_release	DLRelInd_01		
56		L?DL_RelIn	DLRelInd_01	(P)	
57		+ Wait (2000)			Wait 2s
58		START T_dly (3000)			Start timer 3s
59	L2	L?DL_RelIn	DLRelInd_01	(F)	
60		GOTO L2			
61		?TIMEOUT T_dly			
62		?TIMEOUT T_release			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
63		ltree_NoUplinkAccessReject			3
64		+Wait (2000)			
		+ltree_Reject			
		ltree_Reject			
65		(TCV_Res := OO_CheckAsciReject (TCV_VGCS_VBS_Type))			
66		+Check_Result			
67		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch1))			
68		+Check_Result			
		ltree_CheckTime (vmin , vmax : INTEGER)			
69		+ FnArith(TCV_Fn, TCV_Fn1)			
70		[(TCV_Time >= vmin) AND (TCV_Time <= vmax)]		(P)	
71		[(TCV_Time < vmin) OR (TCV_Time > vmax)]		(F)	
		ltree_CheckTimeDiff (t1, t2 : INTEGER)			
72		[t1 <> t2]		(P)	
73		[t1 = t2]		(F)	
		ltree_UplinkFreeAccess			
74		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch1, UplinkFree_Uic (TSPX_UIC, '0'B))		
75		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active4))			
76		L ? DL_RacInUpAcc (TCV_Rr := DL_RacInUpAcc.msg.ecau_rrf , TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
77		L ? DL_RacInUpAcc (TCV_Rr1 := DL_RacInUpAcc.msg.ecau_rrf)	UpAccess (UplinkAccess_Def)		
Detailed Comments : 1. UPLINK FREE message without UIC and with uplink access request set to 'L'. 2. UPLINK ACCESS message with a establishment cause set to "subsequent talker uplink request" 3. Check that there is no more UPLINK ACCESS for 2 s. 4. Generate a request reference different from TCV_Rr and TCV_Rr1. 5. VGCS UPLINK GRANT with a request reference different from those received in UPLINK ACCESS messages. 6. Send UPLINK BUSY message 0.9 s after VGCS UPLINK ACCESS GRANT. 7. Check that there is no UPLINK ACCESS for 1 s. 8. Ciphering mode setting = "no ciphering".					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_4_3

Group : VGCS_VBS/

Purpose : To verify that when the MS is in group receive mode:

1. On receipt of an UPLINK FREE message with an uplink access request indication from the network on the voice group call channel downlink, the MS sends two UPLINK ACCESS messages on the voice group call channel with the appropriate establishment cause and then stops immediately transmitting on the uplink.
2. The first UPLINK ACCESS message is transmitted by the MS with a random delay between 0 and 20 ms. The second UPLINK ACCESS messages is repeated after a further period of 100 ms plus a random delay between 0 and 20 ms.
3. If an uplink identity code (UIC) of the current cell has been provided by the network in the UPLINK FREE message, the MS uses this UIC for the coding of the UPLINK ACCESS messages. If no UIC is provided, the MS uses the BSIC received of the serving cell, for instance as received from the initial synchronisation.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_vgcs, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
4		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
5		+ltree_CheckWithoutUIC			
6		+ltree_CheckWithUIC			
7		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			
8		ltree_CheckWithoutUIC			
9		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch1, UplinkFree_noUic ('1'B))		1
10		L ? DL_RacInUpAcc (TCV_Fn := DL_RacInUpAcc.fn, TCV_Res := OM_CheckAccessBurst_Asci (TRUE, DL_RacInUpAcc))	UpAccess (UplinkAccess_Reply)		2
		+Check_Result			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn, TCV_Res := OM_CheckAccessBurst_Asci (TRUE, DL_RacInUpAcc))	UpAccess (UplinkAccess_Reply)		
12		+Check_Result			
13		+ ltree_CheckTime (100 , 120)			
14		(TCV_Time1 := TCV_Time)			
		ltree_CheckWithUIC			
15		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch1, UplinkFree_Uic (TSPX_UIC, '1'B))		3
16		L ? DL_RacInUpAcc (TCV_Fn := DL_RacInUpAcc.fn, TCV_Res := OM_CheckAccessBurst_Asci (FALSE, DL_RacInUpAcc))	UpAccess (UplinkAccess_Reply)		4
17		+Check_Result			
18		L ? DL_RacInUpAcc (TCV_Fn1 := DL_RacInUpAcc.fn, TCV_Res := OM_CheckAccessBurst_Asci (FALSE, DL_RacInUpAcc))	UpAccess (UplinkAccess_Reply)		
19		+Check_Result			
20		+ ltree_CheckTime (100 , 120)			
21		+ ltree_CheckTimeDiff (TCV_Time, TCV_Time1)			
		ltree_CheckTime (vmin , vmax : INTEGER)			
22		+ FnArith(TCV_Fn, TCV_Fn1)			
23		[(TCV_Time >= vmin) AND (TCV_Time <= vmax)]		(P)	
24		[(TCV_Time < vmin) OR (TCV_Time > vmax)]		(F)	
		ltree_CheckTimeDiff (t1, t2 : INTEGER)			
25		[t1 <> t2]		(P)	
26		[t1 = t2]		(F)	
Detailed Comments : 1. UPLINK FREE message with uplink access request set to 'H' and without UIC. 2. UPLINK ACCESS message indicating the establishmnet cause "Reply on uplink access request" and with L1 coding using BSIC. 3. UPLINK FREE message with uplink access request set to 'H' and with UIC. 4. UPLINK ACCESS message indicating the establishmnet cause "Reply on uplink access request" and L1 coding is with UIC.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_5_1

Group : VGCS_VBS/

Purpose : To verify that in group receive mode:
 1. The MS enters idle mode when it received a CHANNEL RELEASE message of UI format.
 2. On users request to abort group receive mode, the MS returns to idle mode.
 3. In sub-state NO CHANNEL, when Tno channel expires the MS aborts resources and enters the idle mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ltree_CheckChnlRelease			
4		+ ltree_CheckNotif1 (TSPX_VCallref_Active2)			
5		+ ltree_CheckNotif2 (TSPX_VCallref_Active3)			
		ltree_CheckChnlRelease			
6		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_vgcs, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
7		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
8		+ Check_Idle_Asci			
9		+ Wait (C_T_Wait)			Wait 5s
		ltree_CheckNotif1 (callRef : B_27)			
10		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (callRef, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn)))		2

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		(TCV_Null := OO_Join_AsciCall (callRef , TCV_VGCS_VBS_Type))			
12		(TCV_Null := OO_StopAsciListening (callRef , TCV_VGCS_VBS_Type))			3
13		+ Wait (C_T_Wait)			
14		+ Check_Idle_Asci			
15		+ Wait (C_T_Wait)			Wait 5s
16		ltree_CheckNotif2 (callRef : B_27) LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (callRef, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_tch_arfcn)))		2
17		(TCV_Null := OO_Join_AsciCall (callRef , TCV_VGCS_VBS_Type))			
18		(TCV_Null := OM_StopAllBCCH (C_Cella, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", "dummy"))			
19		+ Wait (4000)			Wait 4s
20		+ Check_Idle_Asci			
Detailed Comments : 1. CHANNEL REQUEST message with establishment cause set to "answer to paging". 2. NOTIFICATION/NCH with a group channel description and a call reference active in the MS. 3. MMI action to stop the VGCS/VBS listening.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_5_2

Group : VGCS_VBS/

Purpose : To verify that in group transmit mode (VGCS):

1. When uplink release is requested by the user the mobile station sends an UPLINK RELEASE message on the voice group call channel uplink, performs a release of the main signalling link and goes back to group receive mode.
2. When the UPLINK RELEASE message is received from the network on the voice group call channel downlink, the MS performs a release of the main signalling link and goes back to group receive mode.
3. When a radio link failure is detected by the MS the MS shall return to idle mode and, when possible, to group receive mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ PreEnter_Asci_GTM (TSPX_MTChRateA, C_asciService_vgcs, TSPX_VCallref_Active5, TSPX_SDCCH4SubDef, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d, 19, 15)			
4	body	+ ltree_CheckMSUplinkrel			
5		+ ltree_CheckNTUplinkRel			
6		+ ltree_CheckLinkFail			
7		ltree_CheckMSUplinkrel (TCV_Null := OO_VGCS_QuitUplinkAccess (TSPX_VCallref_Active5))			1
8	AC_0 10	L?DL_DatInUpRel	UplinkRel (TCV_chTch, UplinkRelease_01)	(P)	
9		+ ltree_CheckLink			
10		ltree_CheckNTUplinkRel			
11		L ! DL_UDatRqUpFree (TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active5))	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		2

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		+ UplinkAccess_Vgcs (TCV_chTch)	UplinkRelS (TCV_chTch, UplinkRelease_01)		Wait 5s
13		L!DL_DatRqUpRel			
14		+ Wait (C_T_Wait)			
15		+ ltree_CheckLink			
		ltree_CheckLinkFail	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		3
16		L ! DL_UDatRqUpFree			
17		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active5))			
18		+ UplinkAccess_Vgcs (TCV_chTch)			
19		+ Wait (C_T_Wait)			
20		(TCV_Null := OM_Deactivate ("dummy", TCV_sacch))			
21		+ ltree_CheckLink			
22		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
		ltree_CheckLink			
23		(TCV_Res := OM_TCHThroConnNoUplink_Asci (C_VGCSType , TCV_chTch))			
24		+Check_Result			
25		(TCV_Res := OM_NoUplinkTransmission_Asci (TCV_chTch))			
26		+Check_Result			
Detailed Comments : 1. MMI action to quit VGCS transmit mode 2. MMI action to request access uplink 3. UPLINK FREE message including UIC 4. Deactivate downlink SACCH transmissions, but keep TCH active, wait until there is no uplink SACCH frames received					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_1

Group : VGCS_VBS/

Purpose : To verify that in idle updated mode:

1. The MS initiates a VGCS/VBS call correctly using IMMEDIATE SETUP procedure on request.
2. The MS initiates a VGCS/VBS call correctly using SETUP procedure on request.
3. After establishment of VGCS call, the MS indicates that an user action is required if he wants to speak. If such user action is not made within a certain time, the MS sends an UPLINK RELEASE.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3	body	+ ltree_ImmSetup			
4		+ ltree_Setup			
		ltree_ImmSetup			
5		[NOT TSPC_Serv_SS_eMLPP]			
6		[TSPC_Serv_SS_eMLPP]			
7		+ PreEnter_Asci_ImmGTM_MO (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			1
8		(TCV_Res := OM_TCHThroConn_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
9		+Check_Result			
10		[TCV_VGCS_VBS_Type = C_VGCSType]			
11		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '1010'B)			4
12		+ ltree_CheckVgcsIndication			
13	AC_0 11	L?DL_DatInUpRel	UplinkRel (TCV_chTch, UplinkRelease_01)	(P)	
14		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupReceive)			
16		[TCV_VGCS_VBS_Type = C_VBSType]			
17		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '0010'B)			5
18		+ ltree_QuitCall (TCV_chTch, C_CallMO, C_GroupTransmit)			
		ltree_Setup			
19		(TCV_Null := OO_SelectPriorityLevel (4))			
20		+ PreEnter_Asci_GTM_MO (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef, C_Ass, TSPX_TmSttA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			2
21		(TCV_Res := OM_TCHThroConn_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
22		+Check_Result			
23		[TCV_VGCS_VBS_Type = C_VGCSType]			
24		+ltree_CheckVgcsIndication			
25		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '1010'B)			4
26		+ ltree_QuitCall (TCV_chTch, C_CallMO, C_GroupTransmit)			
27		[TCV_VGCS_VBS_Type = C_VBSType]			
28		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '0010'B)			5
29		+ ltree_QuitCall (TCV_chTch, C_CallMO, C_GroupTransmit)			
		ltree_CheckVgcsIndication			
30		(TCV_Res := OO_CheckAsciUserTalkInd ())			6
31		+Check_Result			
		ltree_QuitCall (ch:LOGICCH; type:INTEGER; mode : INTEGER)			
32		LIDL_DatRqTerm	Termination (ch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type , INT_TO_BIT(17,7)))		7
33		+ PostMainLinkRel_Asci (ch, type, mode)			
Detailed Comments : 1. Enter group transmit mode with immediate SETUP procedure and very early assignment. 2. Enter group transmit mode with "normL" SETUP procedure and very early assignment. 4. Check MS is in U2sr state (for VGCS) 5. Check MS is in U2 state (for VBS) 6. Check that MS indicates a user action needed for a desire of speaking. 7. TERMINATION message sent with the cause "Network failure"					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_2

Group : VGCS_VBS/

Purpose : 1. To verify that The originator of the GCC or BCC transaction chooses the Transaction Identifier (TI).
2. To verify that when the MS (not originator) goes to group transmit mode, if the MS sends GCC or BCC message to network to respond to messages from network, it uses the TI value which is used in the messages received from network.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)	ChReq (ChRequest_02)		To match ChReq retrans.
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+BasicServiceMO_Asci (TSPX_MTChRateA, C_asciService_vbs)			
4		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ltree_CheckVbs			
6		+ltree_CheckVgcs			
7		ltree_CheckVbs			
8		[TSPC_VBS_Originating]			
9		(TCV_Null := OO_InitCall_Asci (C_VGCSType))			
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)			
11		L!DL_UdatRqImmass			
			ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		L?DL_EstInCmsRq	CMSerReq (CMSerReq_01)	(P)	Restore Normal default 1
13		LIDL_DatRqCmsAcp	CMSerAcp (TCV_ch, CMSerReq_01)		
14		ACTIVATE (OtherEventsFail_01)			
15		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))		
16		+ ltree_Check_TI			
17		LIDL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef))		
18		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
19		+ CCModifyTCH (TSPX_TmSlDef , TSPX_TscDef)			
20		LIDL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci , OriginatorInd_MS))		
21		+ CheckStatus_Asci (TCV_chTch, TCV_TI, C_Dummy4)			
22		LIDL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT (17,4)))		
23		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
24		[NOT (TSPC_VBS_Originating)]			
25		ltree_CheckVgcs			
26		[TSPC_VGCS_Talking]			
27		+BasicServiceMO_Asci (TSPX_MTChRateA, C_asciService_vgcs)			
28		+ Enter_Asci_GroupTransmitMode (C_asciService_vgcs , TCV_chTch , TSPX_VCallref_Active4, TCV_arfcn_asci1, NotifNCH_ChDescr (TSPX_VCallref_Active4 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlDef , TSPX_TscDef , TCV_arfcn_asci1)))			3
29		(TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '001'B, TCV_TI0 := TCV_TI, TCV_TI0.ti_f := '1'B)			
29		+ CheckStatus_Asci (TCV_chTch, TCV_TI, C_Dummy4)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupTransmit)			
31		[NOT (TSPC_VGCS_Talking)]			
		ltree_Check_TI			
32		[((BIT_TO_INT(TCV_TI.ti_v)) >= 0) AND ((BIT_TO_INT(TCV_TI.ti_v)) <= 6)]		(P)	2
33		[((BIT_TO_INT(TCV_TI.ti_v)) < 0) OR ((BIT_TO_INT(TCV_TI.ti_v)) > 6)]		(F)	
Detailed Comments : 1. SETUP message received. Check that the flag of the TI is set to '0'B 2. Check that the value of TI is within '000'B and '110'B 3. MS is brought into group transmit mode for VGCS, MS is not the originator of the call.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_3

Group : VGCS_VBS/

Purpose : To verify that when in group transmit mode, on request of the user, the MS which is the originator of the VGCS/VBS call initiates the termination procedure by sending a TERMINATION REQUEST message to its peer entity in the network and setting timer Tterm, entering state U5. If the termination is accepted or on Tterm is expired, the MS returns to idle mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMO_Asci (TSPX_MTChRateA, C_asciService_default)			
4		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_k1			
6		+ ltree_k2			
7		ltree_k1			
8		+ltree_EnterTerminationState (8000)			
9		?TIMEOUT T_dly L!DL_DatRqTerm			1
10		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
11		+ CheckNotifNCH (TCV_chTch, TSPX_VCallref_Active1, TCV_tch_arfcn)			2
12		ltree_k2			
13		+ltree_EnterTerminationState (TSPX_T_Term)			
14		?TIMEOUT T_dly [TCV_VGCS_VBS_Type = C_VGCSType]			
15		L?DL_DatInUpRel	UplinkRel (TCV_chTch, UplinkRelease_01)	(P)	3

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupReceive)			
17		+ CheckNotifNCH (TCV_chTch, TSPX_VCallref_Active1, TCV_tch_arfcn)			2
18		[TCV_VGCS_VBS_Type = C_VBSType]			
19		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupReceive)			
20		+ CheckNotifNCH (TCV_chTch, TSPX_VCallref_Active1, TCV_tch_arfcn)			2
		ltree_EnterTerminationState (time : INTEGER)			
21		+ Enter_Asci_GTM_IR_MO (TCV_chTch, TCV_tch_arfcn)			4
22		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
23		+Check_Result			
24		(TCV_Null := OO_TermCall ())			5
25		L?DL_DatInTermRq START T_dly (time)	TerminationRq (TCV_chTch, TerminationRq_Def (TCV_TI0, TCV_VGCS_VBS_Type, TCV_crAsci))		
Detailed Comments : 1. TERMINATION message (with cause 112 'protocol error unspecified' sent 8 second after the receipt of teh TERMINATION REQUEST message 2. Initiate a call using NOTIFICATION/NCH. Check that the call can be completely established. 3. Receipt of an UPLINK RELEASE message if MS supports VGCS. 4. MS is brought in group transmit mode with identity request 5. MMI action to terminate the call.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_4

Group : VGCS_VBS/

Purpose : To verify that when in group receive mode, on request of the user, the MS which is the originator of the VGCS call enters sub-state U2ws and asks RR to enter group transmit mode. As soon as COMM = T, it sends a TERMINATION REQUEST message to its peer entity in the network, set timer Tterm , and enters state U5.
The network accepts the termination or on Tterm expiration, the MS returns to idle mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			TCH/F
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ ltree_CheckFull			
4		+ ltree_CheckHalf			
5		ltree_CheckFull			
6		+ ltree_InitiateCall			
7		+ BasicServiceMO_Asci (C_Full, C_asciService_vgcs)			
8		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
9		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
10		(TCV_AssCmd := AsgnCmd_nfh (TCV_Tchtype, TCV_slot, TCV_tsc, 9, TCV_chdescr_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_04iei(TSPX_CphAlgB)))			
11		+ AssCh_complete (TCV_ch, TCV_chTch1, TCV_AssCmd)			
12		+ ltree_CompleteCall (TCV_chTch1, 8000)			
	? TIMEOUT T_dly				

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13	AC_0 16	L!DL_DatRqTerm	Termination (TCV_chTch1, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT(112,7)))	(P)	TCH/H
14		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMO, C_GroupTransmit)			
15		+ CheckNotifNCH (TCV_chTch1, TSPX_VCallref_Active1, TCV_arfcn_asci1)			
16		ltree_CheckHalf			
17		+ ltree_InitiateCall			
18		+ BasicServiceMO_Asci (C_Half, C_asciService_vgcs)			
19		+ CCCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
20		(TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
21		(TCV_AssCmd := AsgnCmd_nfh (TCV_Tchtype, TCV_slot, TCV_tsc, 9, TCV_chdescr_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_04iei(TSPX_CphAlgB)))			
22		+AssCh_complete(TCV_ch, TCV_chTch1 , TCV_AssCmd)			
23		+ ltree_CompleteCall (TCV_chTch1, TSPX_T_Term)			
24		?TIMEOUT T_dly			
25		[TCV_VGCS_VBS_Type = C_VGCSType]			
26		L?DL_DatInUpRel			
27		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			
28		+ CheckNotifNCH (TCV_chTch1, TSPX_VCallref_Active1, TCV_arfcn_asci1)			
29		[TCV_VGCS_VBS_Type = C_VBSType]			
30		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			
31		+ CheckNotifNCH (TCV_chTch1, TSPX_VCallref_Active1, TCV_arfcn_asci1)			
		ltree_InitiateCall			
	(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))				

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32	AC_0 14	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)	(P)	To match ChReq retrans.
33		ACTIVATE (OtherEventsFail_02)			
34		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_arfcn_asci1, TimingAdv(30)))		
35		L?DL_EstInCmsRq	CMSerReq (CMSerReq_01)		Restore Normal default
36		ACTIVATE (OtherEventsFail_01)			
37		L!DL_DatRqCphmCmd	CphCmd (TCV_ch, CphModeCmd_02)		
38		L?DL_DatInCphmCom	CphCom (CphModeCmp_01)		
39		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))		
40		L!DL_DatRqAuthRq	AuthReq (TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef))		
41		L?DL_DatInAuthRes ltree_CompleteCall (ch : LOGICCH; time : INTEGER)	AuthRes (AuthResponse)		
42		L!DL_DatRqConn_Asci	ConnSnd_Asci (ch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci , OriginatorInd_MS))		
43		(TCV_Res := OM_TCHThroConn_Asci (C_VGCSType , ch))			
44		+Check_Result			
45		(TCV_Null := OO_VGCS_QuitUplinkAccess (TCV_crAsci))			
46		L?DL_DatInUpRel	UplinkRel (ch, UplinkRelease_01)		
47		(TCV_Res := OM_TCHThroConnNoUplink_Asci (C_VGCSType , ch))			
48		+Check_Result			
49		L!DL_UDatRqUpFree	UplinkFree (ch, UplinkFree_Uic (TSPX_UIC, '0'B))		
50		(TCV_Null := OO_TermCall ())			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51	AC_015	+ UplinkAccess_Vgcs (ch)	TerminationRq (ch, TerminationRq_Def (TCV_TI0, TCV_VGCS_VBS_Type, TCV_crAsci))	(P)	
52		L?DL_DatInTermRq START T_dly (time)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_5

Group : VGCS_VBS/

Purpose : To verify that when the MS is not the originator of the VGCS/VBS call, on request of the user, the MS does not attempt to terminate the call.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (120)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ Enter_Asci_GroupReceiveMode (TCV_chTch, TSPX_VCallref_Active1, TCV_tch_arfcn)			
6		(TCV_Null := OO_TermCall ())			1
7		(TCV_Res := OM_NoUplinkTransmission_Asci (TCV_chTch))			2
8		+Check_Result			
9		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			

Detailed Comments : 1. MMI action to terminate the call.

2. Check that there is no uplink transmission from the MS for 10 seconds.

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_6

Group : VGCS_VBS/

Purpose : 1.To verify that the GCC states and parameters of the MS are consistent as defined.
2. To verify that the MS in group transmit mode mutes the downlink speech if downlink SET STATUS message is received setting DA bit. The mobile station no longer mutes the downlink speech after a SET STATUS message is received.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		[TSPC_VGCS_Originating]			
4		+ ltree_CheckCallEstablish			
5		+ ltree_CheckMuted			
6		+ ltree_CheckUplinkAccess			
7		+ ltree_CheckTermination			
8		+ ltree_CheckCallReceived			
9		+ ltree_CheckUplinkRequest			
10		[TSPC_VGCS_Talking]			
11		+ ltree_CheckCallReceived			
12		+ ltree_CheckUplinkRequest			
13		[C_Yes]			
14		ltree_CheckCallEstablish + PreEnter_Asci_EstablishMO (TSPX_MTChRateA, C_asciService_vgcs, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
15		LIDL_DatRqCmsAcp	CMSErAcp (TCV_ch, CMServiceAcp_01)		
16		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (C_VGCSType))	(P)	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		+ CheckStatus_SA_Asci (TCV_ch, C_VGCSType, INT_TO_BIT(1,4), '0'B, '0'B, '1'B, '1'B)			2
18		+ CCMModifyTCH (TSPX_TmSlitDef , TSPX_TscDef)			3
19		+ CheckStatus_SA_Asci (TCV_chTch, C_VGCSType, INT_TO_BIT(10,4), '1'B, '1'B, '1'B, '1'B)			
20		(TCV_Res := OO_CheckAsciUserTalkInd ())			
21		+Check_Result			
22		(TCV_Null := OO_AsciUserDesireTalking ())			
23		Itree_CheckMuted L!DL_DatRqSetPar	SetParameter (TCV_chTch, SetParameter_vgcs (TCV_TI, '0'B, '1'B, '1'B, '1'B))		
24		(TCV_Res := OO_DownlinkMuted ())			
25		+ Check_Result			
26		L!DL_DatRqSetPar	SetParameter (TCV_chTch, SetParameter_vgcs (TCV_TI, '1'B, '1'B, '1'B, '1'B))		
27		(TCV_Res := OO_DownlinkMuted())			
28		+ Check_NoResult			(P)
29		(TCV_Null := OO_VGCS_QuitUplinkAccess (TCV_crAsci))			
30		L?DL_DatInUpRel	UplinkRel (TCV_chTch, UplinkRelease_01)		
31		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch1, UplinkFree_Uic (TSPX_UIC, '0'B))		
32		Itree_CheckUplinkAccess (TCV_Null := OO_VGCS_RequestUplinkAccess (TCV_crAsci))			
33		+ UplinkAccess_Vgcs (TCV_chTch)			
34		+ CheckStatus_SA_Asci (TCV_chTch, C_VGCSType, INT_TO_BIT(10,4), '1'B, '1'B, '1'B, '1'B)			
35		Itree_CheckTermination (TCV_Null := OO_TermCall ())			
36		L?DL_DatInTermRq	TerminationRq (TCV_chTch, TerminationRq_Def (TCV_TI0, TCV_VGCS_VBS_Type, TCV_crAsci))		
37		+ CheckStatus_SA_Asci (TCV_chTch, C_VGCSType, INT_TO_BIT(5,4), '1'B, '1'B, '1'B, '1'B)			4

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT(17,7)))		
39		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
40		ltree_CheckCallReceived L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_Active2 , C_VGCSType))		
41		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active2 , C_VGCSType))			
42		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)		
43		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
44		L!DL_UdatRqImmss	ImmAss (C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype,TCV_slot, TCV_tsc,TimingAdv(30), TCV_chdescr_arfcn, C_normal_paging))		Use SDCCCH /4
45		L?DL_EstInNTResp	DLEstInd_NotifResp (TCV_ch, NotifResponse_01)		
46		ACTIVATE (OtherEventsFail_01)			Restore Normal default
47		+ CheckStatus_SA_Asci (TCV_ch, C_VGCSType, INT_TO_BIT(10,4), '0'B, '0'B, '1'B, '0'B)			6
48		L!DL_DatRqChRel START T_release	ChRel (TCV_ch, ChRelease_02 (TCV_Tchtype ,TSPX_TmSlTDef, TSPX_TscDef, TCV_tch_arfcn))		
49		L?DL_RelIn CANCEL T_release	DLRelInd_01		
50		ltree_CheckUplinkRequest L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		
51		(TCV_Null := OO_VGCS_RequestUplinkAccess (TCV_crAsci))			
52		+ UplinkAccess_Vgcs (TCV_chTch)			
53		+ CheckStatus_SA_Asci (TCV_chTch, C_VGCSType, INT_TO_BIT(10,4), '1'B, '1'B, '1'B, '1'B)			
54		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupTransmit)			

Test Case Dynamic Behaviour

Detailed Comments : 1. State U0.p, DA=0, UA=0, COMM=0, ORIG=1
2. Statte U1, DA=0, UA=0, COMM=1, ORIG=1
3. Statte U2sr, DA=1, UA=1, COMM=1, ORIG=1
4. Statte U5, DA=1, UA=1, COMM=1, ORIG=1
5. Statte U2rw, DA=0, UA=0, COMM=1, ORIG=0
6. Statte U2sr, DA=1, UA=1, COMM=1, ORIG=0

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_6_7
Group : VGCS_VBS/
Purpose : VGCS-VBS / GCC-BCC Procedures / BCC states
Configuration :
Default : OtherEventsFail_01
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ ltree_CheckMOCall			
4		+ ltree_CheckTermCall			
		ltree_CheckMOCall			
5		+PreEnter_Asci_EstablishMO (TSPX_MTChRateA, C_asciService_vbs, TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
6		L!DL_DatRqCmsAcp	CMSErAcp (TCV_ch, CMServiceAcp_01)		
7		+ CheckStatus_SA_Asci (TCV_ch, C_VBStype, INT_TO_BIT(6,4), '0'B, '0'B, '0'B, '1'B)			1
8		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_VBS_01)		
9		+ CheckStatus_SA_Asci (TCV_ch, C_VBStype, INT_TO_BIT(1,4), '0'B, '0'B, '1'B, '1'B)			2
10		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_ch, ConnectAsci_Vbs_01 (TCV_TI, TCV_crAsci))		
11		+ CheckStatus_SA_Asci (TCV_ch, C_VBStype, INT_TO_BIT(2,4), '1'B, '1'B, '1'B, '1'B)			3
12	+ CCMModifyTCH (TSPX_TmSlitDef, TSPX_TscDef)				

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		ltree_CheckTermCall			
14		(TCV_Null := OO_TermCall ())			
		L?DL_DatInTermRq	TerminationRq (TCV_chTch, TerminationRq_Def (TCV_TI0, C_VBStype, TCV_crAsci))		
15		+ CheckStatus_SA_Asci (TCV_chTch, C_VBStype, INT_TO_BIT(5,4), '1'B, '1'B, '1'B, '1'B)			4
16		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, C_VBStype, INT_TO_BIT(17,7)))		1
17		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
Detailed Comments : 1. State U0.p, DA=0, UA=0, COMM=0, ORIG=1 2. State U1, DA=0, UA=0, COMM=1, ORIG=1 3. State U2, DA=1, UA=1, COMM=0, ORIG=1 4. State U5, DA=1, UA=1, COMM=1, ORIG=1					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_7_1

Group : VGCS_VBS/

Purpose :

To verify that:

1. Whenever a message is received specifying a transaction identifier which is not recognised as relating to an active transaction, if COMM = T, the MS sends a STATUS message with cause #81 "invalid transaction identifier value" using the received transaction identifier value and including, if possible, as diagnostics the complete message received (this may not be possible, e.g., due to length restrictions).
2. If COMM = T, the MS answers to a message received with TI value "111" by sending a STATUS message with same TI value, cause "invalid transaction identifier value", and including, if possible, as diagnostics the complete message received (this may not be possible, e.g., due to length restrictions).
3. When a message is received that is too short to contain a complete message type information element, that message is ignored.
4. If the GCC or BCC in the MS receives a message with message type not defined for the PD or not implemented by the receiver, the MS ignores the message. In addition, if COMM = T, it returns a STATUS message with cause message type non-existent or not implemented and including as diagnostics the message type of the message received.
5. If the GCC or BCC in the MS receives a message not compatible with the protocol state, the MS ignores the message. In addition, if COMM = T, it returns a STATUS message with cause message type not compatible with protocol state and including as diagnostic the message type of the message received.
6. When a message containing semantically incorrect contents is received and no reactions are specified in the procedural part, the MS ignores the message. In addition, if COMM = T, the MS returns a STATUS message with cause value semantically incorrect message and as diagnostics, including the complete message received, if possible (this may not be possible).

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3	body	+ ltree_CheckMOCall			
4		[TSPC_VGCS_Talking]			
5		+ ltree_CheckVgcsMT			
		ltree_CheckMOCall			
6		+ PreEnter_Asci_EstablishMO (C_Full, C_asciService_default, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
7		L!DL_DatRqCmsAcp	CMSerAcp (TCV_ch, CMSerServiceAcp_01)		
8		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))		
9		+ ltree_Connect (TCV_TI0)			1
10		+ ltree_CountNewTI			2
11		+ ltree_Connect (TCV_TI1)			3
12		+ ltree_Connect (TCV_TI2)			4
13		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_ch, ConnectAsci_TooShort (TCV_VGCS_VBS_Type, TCV_TI))		6
14		+ CheckStatus_SA_Asci (TCV_ch, TCV_VGCS_VBS_Type, '0001'B, '0'B, '0'B, '1'B, '1'B)			
15		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_ch, ConnectAsci_Undef (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci))		7
16		L?DL_DatInStatus	Status (TCV_ch, Status_cause (TCV_VGCS_VBS_Type, TCV_TI0, 97))	(P)	
17		L!DL_DatRqTermRj	TerminationRj (TCV_ch, TerminationReject_Def (TCV_TI, TCV_VGCS_VBS_Type, 17))		
18		L?DL_DatInStatus	Status (TCV_ch, Status_cause (TCV_VGCS_VBS_Type, TCV_TI0, 98))	(P)	
19		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_ch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_SS))		
20		L?DL_DatInStatus	Status (TCV_ch, Status_cause (TCV_VGCS_VBS_Type, TCV_TI0, 95))	(P)	
21		L!DL_DatRqTerm	Termination (TCV_ch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT(112,7)))		
22		+ PostMainLinkRel_Asci (TCV_ch, C_CallMO, C_GroupTransmit)			
		ltree_Connect (ti:TI)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_ch, ConnectAsci_01 (TCV_VGCS_VBS_Type, ti, TCV_crAsci, OriginatorInd_MS))		
24		(TCV_TI3 := ti)			
25		L?DL_DatInStatus	Status (TCV_ch, Status_cause (TCV_VGCS_VBS_Type, TI_10(TCV_TI3.ti_v), 81))	(P)	5
		ltree_CountNewTI			
26		[TCV_TI.ti_v <> '110'B]			
27		(TCV_TI1:= TCV_TI, TCV_TI1.ti_v := OC_BinAdd(TCV_TI1.ti_v, '001'B), TCV_TI2:= TCV_TI, TCV_TI2.ti_v :='111'B)			
28		[C_Yes]			
29		(TCV_TI1:= TCV_TI, TCV_TI1.ti_v :='001'B, TCV_TI2:= TCV_TI, TCV_TI2.ti_v :='111'B)			
		ltree_CheckVgcsMT			
30		+BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_vgcs, TSPX_TCHHSubDef)			
31		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
32		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (TSPX_VCallref_Active1, C_VGCSType , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1)))		
33		(TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active1 , C_VGCSType))			
34		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		
35		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active1))			
36		+ UplinkAccess_Vgcs (TCV_chTch)			
37		(TCV_TI.ti_f:= '1'B, TCV_TI.ti_v:= '001'B, TCV_TI1:=TCV_TI, TCV_TI1.ti_v:= '111'B, TCV_TI2:=TCV_TI, TCV_TI2.ti_v:= '010'B)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '1010'B)			
39		+ ltree_GetStatus (TCV_TI1)			
40		+ ltree_GetStatus (TCV_TI2)			
41		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupTransmit)			
42		ltree_GetStatus (ti:TI) L!DL_DatRqGetStatus	GetStatus (TCV_chTch, GetStatus_Def (C_VGCSType , ti))		
43		(TCV_TI3 := ti)			
44		L?DL_DatInStatus	Status (TCV_chTch, Status_cause (C_VGCSType , TI_10(TCV_TI3.ti_v) , 81))	(P)	5
Detailed Comments : 1. Send a CONNECT message with the flag of TI set to '0'B 2. Calculate a TI value different from the value of the current call 3. Send a CONNECT message with the TI value different from the value of the current call 4. Send a CONNECT message with the TI value set to '111'B 5. Receipt of a STATUS message with the cause 81 'invalid transaction ID value' 6. Send a too short CONNECT message without call reference and originator indication 7. Send an undefined message					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_7_2

Group : VGCS_VBS/

Purpose : To verify that:

1. On receipt of a message containing imperative message part error or missing mandatory IE error or syntactically incorrect mandatory IEs or unknown IEs encoded as comprehension required or out of sequence IEs encoded as comprehension required, the MS ignores the message. In addition, if COMM = T, the MS returns a STATUS message with cause invalid mandatory information and including, if possible, as diagnostics the complete message received.
2. The MS ignores unknown information elements not encoded as comprehension required in the non-imperative part.
3. The MS ignores out of sequence information elements not encoded as comprehension required in the non-imperative part.
4. The MS ignores syntactically incorrect optional information elements in the non-imperative part.
5. The MS ignores subsequent repetition of the information element for which repetition is not specified, only the contents of the information element appearing first are handled. For specified repeated information element, the MS ignores all subsequent repetitions of the information element beyond the limit on repetition, only the contents of information element appearing first up to the limit of repetitions are handled.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (750)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+CCCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_Check_Notif			
6		[TSPC_VGCS_Talking]			
7		+ ltree_CheckUplinkrequest			
8		+ ltree_CheckCallInit			
9		+ ltree_QuitCall			
10		[TSPC_VBS_Originating]			
11		+ ltree_CheckCallInit			
12		+ ltree_QuitCall			
		ltree_Check_Notif			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		(TCV_Notif1 := NotifNCH_ChDescr_Skip (TSPX_VCallref_Active5, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1)))			1
14		+Send_NotifNch (C_No, TCV_Notif1 , TSPX_VCallref_Active5, TCV_chTch)			
15		LIDL_UdatRqNtNCH_Err	NotifyNCH_Err (TCV_Nch, NotifNCH_ChDescr_Err (TSPX_VCallref_Active5, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1), UnknownIE_01))		2
16		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active5))			
17		+Check_NoResult			
18		(TCV_Res := OM_NoUplinkTransmission_Asci (TCV_Nch))			
19		+Check_Result			
20		LIDL_UdatRqNtNCH_Err	NotifyNCH_Err (TCV_Nch, NotifNCH_ChDescr_Err (TSPX_VCallref_Active5, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1), UnknownIE_03))		3
21		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active5))			
22		+Check_Result			
23		ltree_CheckUplinkrequest (TCV_Null := OO_Join_AsciCall (TSPX_VCallref_Active5, C_VGCSType))			
24		L ! DL_UDatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch)		4
25		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Err (TSPX_UIC, '0'B))		
26		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active5))			
27		+ Wait (6000)			
28		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		
29		(TCV_Null := OO_VGCS_RequestUplinkAccess (TSPX_VCallref_Active5))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30	L1	L ? DL_RacInUpAcc (TCV_Rr1 := DL_RacInUpAcc.msg.ecau_rrf, TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)	(P)	5
31		L ? DL_RacInUpAcc (TCV_Rr2 := DL_RacInUpAcc.msg.ecau_rrf)	UpAccess (UplinkAccess_Def)		
32		L ! DL_UdatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch , VGCS_UplinkGrant_NoTA (TCV_Rr1, TCV_Fn))		
33		L ? DL_RacInUpAcc (TCV_Rr3 := DL_RacInUpAcc.msg.ecau_rrf, TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
34		L ? DL_RacInUpAcc (TCV_Rr4 := DL_RacInUpAcc.msg.ecau_rrf)	UpAccess (UplinkAccess_Def)		
35		+ ltree_NewRr			
36		L ! DL_UdatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch , VGCS_UplinkGrant_01 (TCV_Rr, TCV_Fn))		
37		L ! DL_UdatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch)		
38		+ Wait (6000)			
39		L ! DL_UdatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		
40		(TCV_Null := OO_VGCS_Request UplinkAccess (TSPX_VCallref_Active5))			
41		+ UplinkAccess_Vgcs (TCV_chTch)			
42		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupTransmit)			
43		ltree_NewRr (TCV_Rr := TCV_Rr2)			
44		(TCV_Rr := OC_BinAdd (TCV_Rr, '00001'B))			
45		[(TCV_Rr = TCV_Rr1) OR (TCV_Rr = TCV_Rr2) OR (TCV_Rr = TCV_Rr3) OR (TCV_Rr = TCV_Rr4)]			
46		GOTO L1			
47		[C_Yes]			
48		ltree_CheckCallInit +ltree_InitCall			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_noCref (TCV_VGCS_VBS_Type, TCV_TI , OriginatorInd_MS))		6
50		L?DL_DatInStatus	Status (TCV_chTch, Status_cause (TCV_VGCS_VBS_Type, TCV_TI0, 96))	(P)	
51		L!DL_DatRqConn_Asci_Err	ConnSnd_Asci_Err (TCV_chTch, ConnectAsci_Err (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci , OriginatorInd_MS))		7
52		L?DL_DatInStatus	Status (TCV_chTch, Status_cause (TCV_VGCS_VBS_Type, TCV_TI0, 96))	(P)	
53		L!DL_DatRqGetStatus	GetStatus (TCV_chTch, GetStatus_Err (TCV_VGCS_VBS_Type, TCV_TI))		8
54		L?DL_DatInStatus	Status (TCV_chTch, Status_Def (TCV_VGCS_VBS_Type, TCV_TI0, '0001'B))	(P)	
55		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci , OriginatorInd_MS))		
56		+ltree_CheckUplinkRel			
		ltree_CheckUplinkRel			
57		[TSPC_VGCS_Talking]			
58		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '1010'B)			
59		(TCV_Res := OO_CheckAsciUserTalkInd ())			
60		+Check_Result			
61		L?DL_DatInUpRel	UplinkRel (TCV_chTch, UplinkRelease_01)	(P)	
62		L!DL_DatRqGetStatus	GetStatus (TCV_chTch, GetStatus_2mi (TCV_VGCS_VBS_Type, TCV_TI))		9
63		+ Wait (2000)			
64		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '1000'B)			
65		[TSPC_VBS_Originating]			
66		+ CheckStatus_Asci (TCV_chTch, TCV_TI, '0010'B)			
		ltree_QuitCall			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
67		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT(112,7)))		
68		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
69		ltree_InitCall			
70		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
71		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)	ChReq (ChRequest_02)		To match ChReq retrans.
72		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		
73		L?DL_EstInCmsRq	CMSerReq (CMSerReq_01)		
74		L!DL_DatRqCmsAcp	CMSerAcp (TCV_ch, CMSerReq_01)		
75		ACTIVATE (OtherEventsFail_01)			Restore Normal default
76		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))		
77		+ CCMModifyTCH (TSPX_TmSlTA, TSPX_TscA)			
Detailed Comments : <ol style="list-style-type: none"> 1. Send a Notification/NCH with the skip indicator set to '0001'B. 2. Send a Notification/NCH containing a comprehension required IE. 3. send a Notification/NCH with an unknown IE not encoded as comprehension required. 4. Send a UPLINK FREE message with an invalid message type. 5. Send VGCS Uplink Grant without the timing advance information element 6. Send a CONNECT message without call reference 7. Send a CONNECT message with an unknown information element encoded as comprehension required. 8. Send a GET STATUS message with an unknown information element encoded as comprehension required. 9. Send a GET STATUS message with 2 mobile identity, the first one does not address the MS 					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_7_3

Group : VGCS_VBS/

Purpose : To verify that the MS in group receive mode ignores:

1. Messages which are applicable to group receive mode but not sent in UI format.
2. ASSIGNMENT COMMAND and HANDOVER COMMAND messages in which the target mode information element indicates dedicated mode.
3. Messages which are not applicable to group receive mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
4		+ ltree_Check_UI			
5		+ ltree_Check_I			
6		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
7		ltree_Check_UI LIDL_UdatRqlmass			
8		+Wait (2000)			
9		(TCV_Rqr := OC_SaveAndRetrv (TCV_Rqr, C_RETRV, TSPX_i1Para, 0), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1))			
10		+ ltree_CheckIgnore			
			ImmAss (TCV_agch, ImmAsgn_01Def (TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		LIDL_UdatRqImmssx	ImmAssX (TCV_agch, ImmAsgnX_r01(TCV_Rqr.ra, TCV_Rqr.fn, TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_slot, TCV_tsc, TimingAdv(30), TCV_chdescr_arfcn))		
12		+ ltree_CheckIgnore			
13		LIDL_UDatRqCphmCmd	CphCmd_U (TCV_ch, CphModeCmd_01)		
14		+ ltree_CheckIgnore			
		ltree_Check_I			
15		+ltree_AssCmd			
16		LIDL_DatRqAssCmd	AssCmd (TCV_chTch,TCV_AssCmd)		
17		+ ltree_CheckIgnore			
18		LIDL_DatRqHoCmd (DL_DatRqHoCmd.msg.strt:= TCV_Strt)	HndOvSnd (TCV_chTch1, HandOverCmd_nfh (TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
19		+ ltree_CheckIgnore			
20		+ ltree_AssFrq			
21		(TCV_Fn := OM_ComingFn(TCV_chTch), TCV_chd1 := ChDescrp_tchf_fh(TSPX_TmSlitF, TSPX_TscF, '001000'B, '000000'B), TCV_chd1.maio := INT_TO_BIT(6, 6), TCV_Strt := OC_StartTime(TCV_Fn, 15000, 0), TCV_Null := OM_SendNextOn(TCV_chTch, TCV_Fn), TCV_Null := OM_FreqDef(TCV_Strt, Ma2_g06, TCV_chTch, TCV_chd1, TCV_CAgsm, TCV_Fn))			
22		LIDL_DatRqFrqre	FrqRedfSnd (TCV_chTch, FreqRedef_01(TCV_chd1, Ma2_g06, TCV_Strt, TCV_CAgsm))		
23		+ ltree_CheckIgnore			
24		LIDL_DatRqChmmo	ChmmoReqSnd (TCV_chTch, ChmomoReq_07(TCV_chtype, TCV_ChMod.mode, TSPX_TmSlitA, TSPX_TscA, TCV_tch_arfcn))		
25		+ ltree_CheckIgnore			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		L!DL_DatRqChRel	ChRel (TCV_chTch, ChRelease_01)		
27		+ ltree_CheckIgnore			
		ltree_AssCmd			
28		[TSPC_PGSM OR TSPC_EGSM]			
29		(TCV_AssCmd := AsgnCmd_tchf_fh_Asci (TCV_sl2, TSPX_TscDef, 7, '000001'B, '000001'B, Frql_omit, CellChDes_Omit, ChMod(TSPX_modF), MobilAlc_r01, StartingTm_01(TCV_Fn1), CphMod_omit, Vgcstmi_01))			
30		[TSPC_DCS]			
31		(TCV_AssCmd := AsgnCmd_tchf_fh_Asci (TCV_sl2, TSPX_TscDef, 7, '000001'B, '000001'B, Frql_omit, CellChDes_Omit, ChMod(TSPX_modF), MobilAlc_r01, StartingTm_01(TCV_Fn1), CphMod_omit, Vgcstmi_01))			
		ltree_AssFrq			
32		[TSPC_PGSM OR TSPC_EGSM]			
33		(TCV_CAgsm := Ca2_g06, TCV_CAdcs := Ca3_g06)			
34		[TSPC_DCS]			
35		(TCV_CAgsm := Ca2_d06, TCV_CAdcs := Ca3_d06)			
		ltree_CheckIgnore			
36		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
37		+Check_Result			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_8_1

Group : VGCS_VBS/

Purpose : 1. To verify that the MS initiates immediate assignment, service request using the IMMEDIATE ASSIGNMENT or CM SERVICE REQUEST message, and contention resolution.
2. To verify that the MS after sending the CIPHERING MODE COMPLETE message, initiates call establishment by sending the SETUP message to the network.
3. To check that the MS performs correctly the early assignment procedure.
4. To check that the MS performs correctly the very early assignment procedure.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3	body	+ ltree_ImmSetup			
4		+ ltree_Setup			
		ltree_ImmSetup			
5		[NOT TSPC_Serv_SS_eMLPP]			
6		[TSPC_Serv_SS_eMLPP]			
7		+ ltree_AssignMode			
8		+ PreEnter_Asci_ImmMOCall (C_Full, C_asciService_default, TSPX_TCHHSubDef, C_Ass, C_S7, C_S3, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d, INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5))			SDCCH 4
9		+ ltree_AssignARFCN (957)			
10		(TCV_AssCmd := AsgnCmd_nfh (TCV_chtype, C_S7, C_S3, 14, TCV_arfcn_asci1, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
11		+ AssCh_complete (TCV_ch, TCV_chTch1, TCV_AssCmd)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
13		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
14		+ Check_Result			
15		(TCV_Null := OO_TermCall ())			
16		L?DL_DatInTermRq	TerminationRq (TCV_chTch, TerminationRq_Def (TCV_TI0, TCV_VGCS_VBS_Type, TCV_crAsci))		
17		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type, INT_TO_BIT(112,7)))		Cause = protocol error
18		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
19		ltree_AssignARFCN (rgsm : INTEGER)			
20		[TSPC_PGSM OR TSPC_EGSM]			
21		(TCV_arfcn_asci1 := C_arfcn_tchAsci1)			
22		[TSPC_DCS]			
23		(TCV_arfcn_asci1 := C_arfcn_tchAsci1d)			
24		[TSPC_RGSM]			
25		(TCV_arfcn_asci1 := rgsm)			
26		ltree_AssignMode			
27		[TSPC_EFR AND TSPC_EFR_Speech_v2]			
28		(TCV_ChMod := ChMod_EFR2)			
29		[C_Yes]			
30		(TCV_ChMod := ChMod_speech)			
31		ltree_Setup			
32		+ ltree_Init			
33		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
34		+Check_Result			
35		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, TCV_VGCS_VBS_Type , INT_TO_BIT(17,4)))		cause = network failure
36		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
37		ltree_Init			
38		+ ltree_AssignARFCN (970)			
39		[TSPC_DualRate]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		+ PreEnter_Asci_GTM_MO (C_Half , C_asciService_default, TSPX_TCHHSubDef, C_Ass, C_S3, C_S3, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, TCV_arfcn_asci1, TCV_arfcn_asci1)			Dual rate
37		[C_Yes]			
38		+ PreEnter_Asci_GTM_MO (C_Full , C_asciService_default, TSPX_TCHHSubDef, C_Ass, C_S3, C_S3, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, TCV_arfcn_asci1, TCV_arfcn_asci1)			Full rate
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_9_1

Group : VGCS_VBS/

Purpose : The MS was in group receive mode. After cell change within a same LA it is verified that:

1. if no NCH is present on the new cell the MS leaves group receive mode and enters idle mode;
2. if NCH is present on the new cell but there is no NOTIFICATION / NCH for the current group or broadcast call the MS leaves group receive mode and enters idle mode;
3. if the MS receives NOTIFICATION / NCH for the current group or broadcast call with the related channel position the MS changes onto the group channel and stays in group receive mode;
4. if the MS receives NOTIFICATION / NCH for the current group or broadcast call without information on the related channel position, the MS leaves group receive mode, enters idle mode and establishes a dedicated connection with the network to get the related channel position.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (600)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Cell)			
3	body	+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active3, TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
4		(TCV_chTch1 := TCV_chTch)			
5		(TCV_counter_c := 1)			
6		REPEAT ltree_ChangeCell1 UNTIL [TCV_counter_c = 3]			
7		ltree_ChangeCell1			
8		(TCV_counter_k := 1)			
9		REPEAT ltree_ChangeCell2 UNTIL [TCV_counter_k = 5]			
10		(TCV_counter_c := TCV_counter_c +1)			
11		ltree_ChangeCell2			
12		+ ltree_StartB			
13		+ ltree_SendNotif			
14		+ ltree_ChangeCellAB			
15		+ ltree_CheckCall			
16		+ ltree_ChangeCellBA			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch1))			
16		+Check_Result			
17		(TCV_Null := OM_ChangeRFOfCell (C_CellB, C_E_neighbourdefault))			
18		(TCV_counter_k := TCV_counter_k +1)			
		ltree_StartB			
19		[TCV_counter_k = 1]			
20		+ StartCellB (C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			no NCH
21		[TCV_counter_k <> 1]			
22		+ StartCellB_Asci (C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Sys4ro_Default)			
23		+ Varinit_fix (C_CellB, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
24		+ VarInit_NCH (C_CellB, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			NCH ready on Cell B
		ltree_SendNotif			
25		[TCV_counter_k =1]			
26		[C_Yes]			
27		+ BasicServiceMT_Asci (TSPX_MTChRateB , C_asciService_default, TSPX_TCHHSubDef)			
28		+ CCCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitB, TSPX_TscB, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
29		[TCV_counter_k =2]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (TSPX_VCallref_NotActive, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_tch_arfcn)))		1
31		[TCV_counter_k =3]			
32		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (TSPX_VCallref_Active3, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_tch_arfcn)))		2
33		[TCV_counter_k =4]			
34		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_Active3, TCV_VGCS_VBS_Type))		3
		ltree_ChangeCellAB			
35		[TCV_counter_c = 1]			
36		(TCV_Null := OM_ChangeRFOf2Cells (C_CellA,C_E_notsuitable_fSel, C_CellB, C_E_suitable))			
37		[TCV_counter_c = 2]			
38		(TCV_Null := OM_Deactivate ("dummy", TCV_sacch))			
		ltree_CheckCall			
39		[(TCV_counter_k = 1) OR (TCV_counter_k = 2)]			
40		+ Wait (C_T_Wait)			
41		+ Check_Idle_Asci			
42		[TCV_counter_k = 3]			
43		+ Wait (C_T_Wait)			
44		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
45		+Check_Result			
46		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
47		[TCV_counter_k = 4]			
48		+ JoinCall_Asci (TCV_chTch, TCV_tch_arfcn ,TSPX_VCallref_Active3)			
49		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
		ltree_ChangeCellBA			
50		[TCV_counter_c = 1]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51		+ Switchcell_Asci (C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			
52		[TCV_counter_c = 2]			
53		+ Varinit_fix (C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
54		+ VarInit_NCH (C_CellA, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			
55		(TCV_Null := OM_Reactivate ("dummy", TCV_sacch))			
Detailed Comments : 1. Send a NOTIFICATION/NCH containing an irrelevant group call reference 2. Send a NOTIFICATION/NCH containing a relevant group call reference and VGCS/VBS channel description 3. Send a NOTIFICATION/NCH containing a relevant group call reference and without VGCS/VBS channel description					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_9_2

Group : VGCS_VBS/

Purpose : In group receive mode it is verified that:

1. after a cell change to a different LA, the MS leaves group receive mode, enters idle mode and establishes a dedicated connection with the network to perform location updating;
2. after location updating, if NCH is present on the new cell but there is no NOTIFICATION / NCH for the current group or broadcast call the MS stays in idle mode;
3. after location updating, if the MS receives NOTIFICATION / NCH for the current group or broadcast call with the related channel position the MS changes to the group channel and stays in group receive mode;
4. after location updating, if the MS receives NOTIFICATION / NCH for the current group or broadcast call without information on the related channel position, the MS establishes a dedicated connection with the network to get the related channel position and then enters to group receive mode.

5 It is also tested, when a mobile, in dedicated mode and involved in a voice group or broadcast call, receives CHANNEL RELEASE including a group channel description channel the mobile station goes onto the channel after the channel release procedure.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (600)			
2		+ IdleUpdated_ASCII (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Cell)			
3		+ StartCellB_Asci (C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Sys4ro_Default)			LA different from cell A
4	body	(TCV_counter_k := 1)			
5		REPEAT ltree_ChangeCell UNTIL [TCV_counter_k = 4]			
		ltree_ChangeCell			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
6		+ PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active4, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
7		(TCV_chTch := TCV_chTch1)			
8		+ ltree_sendNotif			
9		(TCV_Null := OM_ChangeRFOfCell (C_CellA, C_E_notsuitable))			
10		+ MM_LupInit (Milmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TSPX_CKSNDDef, TimingAdv(30))			
11		L!DL_DatRqLupAcp	LocAcp (TCV_ch, LocUpdtAcp_02 (C_MCC_1, C_PLMN_1, C_LAC_2))		1.
12		+ ltree_CheckCall			
13		+ Switchcell_Asci (C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			
14		+BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
15		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci2, C_arfcn_tchAsci2d)			
16		(TCV_chTch1 := TCV_chTch)			
17		+ MM_LupRej2 (C_rc_networkfailure, Milmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TSPX_CKSNDDef, TimingAdv(30))			
18		+ ltree_LocationReject			
19		(TCV_counter_k := TCV_counter_k +1)			
20		ltree_sendNotif +Varinit_fix (C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		+ VarInit_NCH (C_CellB, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			Cell B
22		+BasicServiceMT_Asci (TSPX_MTChRateB, C_asciService_default, TSPX_TCHHSubDef)			
23		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltB, TSPX_TscB, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
24		[TCV_counter_k = 1]			
25		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch, NotifNCH_ChDescr (TSPX_VCallref_NotActive, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn)))		2
26		[TCV_counter_k = 2]			
27		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch, NotifNCH_NoChDescr (TSPX_VCallref_Active4, TCV_VGCS_VBS_Type))		3
28		[TCV_counter_k = 3]			
29		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch, NotifNCH_ChDescr (TSPX_VCallref_Active4, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn)))		4
30		ltree_CheckCall			
31		[TCV_counter_k = 1]			
32		+ ChanRel (TCV_ch)			
33		+ Wait (C_T_Wait)			
34		+ Check_Idle_Asci			
35		[TCV_counter_k = 2]			
36		L?DL_DatInNotifResp	NotifResp (NotifResponse_01)		
37		+ ltree_ChnlRel (TSPX_TmSltB, TSPX_TscB)			
38		+ ltree_Connected (TCV_chTch)			
39		[TCV_counter_k = 3]			
40		+ ChanRel (TCV_ch)			
41		+ ltree_Connected (TCV_chTch)			
42		ltree_Connected (chnl : LOGICCH)			
43		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type, chnl))			
44		+Check_Result			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		+ PostMainLinkRel_Asci (chnl, C_CallMT, C_GroupReceive)			
44		ltree_LocationReject			
45		START T_dly (15000)			
46		(TCV_Res := OM_NoUplinkTransmission_Asci (TCV_chTch1))			
47		+ Check_Result			
48		+ MM_LupInit (Milmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TSPX_CKSNDef, TimingAdv(30))			
49		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp(C_MCC_1, C_PLMN_1, C_LAC_1))	(P)	without MI
50		+ Enter_Asci_GroupTransmitMode (C_asciService_default, TCV_chTch1, TSPX_VCallref_Active2, TCV_arfcn_asci1, NotifNCH_ChDescr (TSPX_VCallref_Active2 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef , TSPX_TscDef , TCV_arfcn_asci1)))			
51		+ ltree_ChnlRel (TSPX_TmSltDef, TSPX_TscDef)			
52		+ ltree_Connected (TCV_chTch1)			
53		ltree_ChnlRel (tmslt : SN; tsc: TSC)			
54		L!DL_DatRqChRel START T_release	ChRel (TCV_ch, ChRelease_02 (TCV_Tchtype , tmslt, tsc, TCV_tch_arfcn))		
		L?DL_RelIn CANCEL T_release	DLRelInd_01		
		?TIMEOUT T_release			
Detailed Comments : 1. Follow on proceed IE included. 2. Send a NOTIFICATION/NCH containing an irrelevant group call reference. 3. Send a NOTIFICATION/NCH containing a relevant group call reference and without VGCS/VBS channel description. 4. Send a NOTIFICATION/NCH containing a relevant group call reference and VGCS/VBS channel description.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_9_3

Group : VGCS_VBS/

Purpose : In group receive mode it is verified that after a cell change to a different LA of an another PLMN, the MS leaves group receive mode, enters idle mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Cell)			
3		+ StartCellB_Asci (C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_2, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Sys4ro_Default)			PLMN different from cell A
4		(TCV_counter_k := 1)			
5		REPEAT ltree_ChangeCell UNTIL [TCV_counter_k = 3]			
6		ltree_ChangeCell + PreEnter_Asci_GRM (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active5, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
7		(TCV_chTch := TCV_chTch1)			
8		+Varinit_fix (C_CellB, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
9		+ ltree_sendNotif			
10		(TCV_Null := OM_ChangeRFOfCell (C_CellA, C_E_notsuitable))			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		+ MM_LUP2_Asci_PLMN (Milmsi_31iei , Milmsi_01, C_MCC_1, C_PLMN_1, C_PLMN_2, C_LAC_1, C_normal_updating, TSPX_CKSNDf, TimingAdv(30))			
12		+ ltree_CheckCallB			
13		+ Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_TCHHSubDef , TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
14		+ VarInit_NCH (C_CellA, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			
15		+ MM_LUP2_Asci_PLMN (Milmsi_01, Milmsi_31iei , C_MCC_1, C_PLMN_2, C_PLMN_1, C_LAC_1, C_normal_updating, TSPX_CKSNA, TimingAdv(30))			
16		+ ltree_CheckCallA			
17		(TCV_Null := OM_ChangeRFOfCell (C_CellA, C_E_neighbourdefault))			
18		(TCV_counter_k := TCV_counter_k +1)			
		ltree_CheckCallB			
19		(TCV_Res := OO_CheckNotifInd (TCV_crAsci))			
20		+Check_Result			
21		(TCV_Null := OO_Join_AsciCall (TCV_crAsci , TCV_VGCS_VBS_Type))			
22		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
23		+Check_Result			
24		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
		ltree_CheckCallA			
25		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active5))			
26		+Check_Result			
27		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			
		ltree_sendNotif			
28		+ VarInit_NCH (C_CellB, C_cch_1Comb, C_BABR_1, C_NchFB_0, C_NchUsed_B0, C_NchNB_1)			Cell B
29		+BasicServiceMT_Asci (TSPX_MTChRateB , C_asciService_default, TSPX_TCHHSubDef)			
30		[TCV_counter_k =1]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltB, TSPX_TscB, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
32		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (TSPX_VCallref_Active2, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn)))		1
33		(TCV_crAsci := TSPX_VCallref_Active2)			
34		[TCV_counter_k =2]			
35		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltB, TSPX_TscB, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci2, C_arfcn_tchAsci2d)			
36		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr (TSPX_VCallref_Active5, TCV_VGCS_VBS_Type, ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltB, TSPX_TscB, TCV_tch_arfcn)))		2
37		(TCV_crAsci := TSPX_VCallref_Active5)			
Detailed Comments : 1. Send a NOTIFICATION/NCH message containing an other group call reference as the call in cell A 2. Send a NOTIFICATION/NCH message with the same group call reference as in cell A and with an another VGCS/VBS channel description.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_11_1

Group : VGCS_VBS/

Purpose : To verify that upon initiation of an outgoing broadcast call with User-to-Dispatcher Information by the user, the MS includes a User-to-Dispatcher Information element in the SETUP message.
To verify correct establishment and clearing of the broadcast call.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMO_Asci (TSPX_MTChRateA, C_asciService_vbs)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_Setup_short_uus			
6		+ ltree_Setup_long_uus			
7		ltree_Setup_short_uus			
8		+ ltree_InitCall_UUS1 ("abcdef9")			
9		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_UUS (C_VBSType, UulInfo_R ('08'O, TCV_UusData)))	(P)	2
10		L!DL_DatRqTerm	Termination (TCV_ch, Termination_Def (TCV_TI, C_VBSType , INT_TO_BIT(17,7)))		3
11		+ PostMainLinkRel_Asci (TCV_ch, C_CallMO, C_GroupTransmit)			
		ltree_Setup_long_uus			
		+ ltree_InitCall_UUS1 ("abcdefghijklnopqrstuvwx012345")			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_UUS (C_VBSType, UuInfo_R ('21'O, TCV_UusData)))	(P)	4
13		+ CCMModifyTCH (TSPX_TmSlitA, TSPX_TscA)			
14		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (C_VBSType, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
15		(TCV_Res := OM_TCHThroConn_Asci (C_VBSType, TCV_chTch))			
16		+Check_Result			
17		START T_dly (10000)			5
18		?TIMEOUT T_dly			
19		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, C_VBSType , INT_TO_BIT(17,7)))		3
20		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
21		ltree_InitCall_UUS1 (cpa_string : IA5String)			
22		(TCV_Null := OO_ActivateUTDI (cpa_string))			0
23		(TCV_UusData := OC_CodingOfUssdString (cpa_string))			
24		(TCV_Null := OO_InitCall_Asci (C_VBSType))			
25		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE (OtherEventsFail_02)	ChReq (ChRequest_02)	(P)	1
26		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		To match ChReq retrans.
27		L?DL_EstInCmsRq	CMSerReq (CMSerReq_01)		
28		ACTIVATE (OtherEventsFail_01)			Restore Normal default
Detailed Comments : 0. To request activation of implicit UUS1 with a specific string 1. Enter group transmit mode with "norma" SETUP procedure and very early assignment. 2. To receive the SETUP message with the UUS information element including the data value "abcdef9" 3. TERMINATION message sent with the cause "Network failure" 4. To receive the SETUP message with the UUS information element including the data value "abcdefghijklmnpqrstuvwxy012345" 5. Wait 10 seconds before clearing the call					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_11_2

Group : VGCS_VBS/

Purpose : To verify that upon initiation of an outgoing group call with user-to-dispatcher information by the user, the MS includes a User-to-Dispatcher information element in the SETUP message;
To verify that the group call can be successfully established and cleared.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMO_Asci (TSPX_MTChRateA, C_asciService_vgcs)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlta, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_Setup_short_uus			
6		+ ltree_Setup_long_uus			
7		ltree_Setup_short_uus			
8		+ ltree_InitCall_UUS1 ("abcdef9")			
9		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_UUS (C_VGCSType, UulInfo_R ('08'O, TCV_UusData)))	(P)	2
10		L!DL_DatRqTerm	Termination (TCV_ch, Termination_Def (TCV_TI, C_VGCSType , INT_TO_BIT(17,7)))		3
11		+ PostMainLinkRel_Asci (TCV_ch, C_CallMO, C_GroupTransmit)			
		ltree_Setup_long_uus			
		+ ltree_InitCall_UUS1 ("abcdefghijklnopqrstuvwxyz012345")			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_UUS (C_VGCSType, UulInfo_R ('21'O, TCV_UusData)))	(P)	4
13		+ CCModifyTCH (TSPX_TmSlitA, TSPX_TscA)			
14		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (C_VGCSType, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
15		(TCV_Res := OM_TCHThroConn_Asci (C_VGCSType, TCV_chTch))			
16		+Check_Result			
17		START T_dly (10000)			5
18		?TIMEOUT T_dly			
19		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, C_VGCSType , INT_TO_BIT(17,7)))		3
20		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
21		ltree_InitCall_UUS1 (cpa_string : IA5String)			
22		(TCV_Null := OO_ActivateUTDI (cpa_string))			0
23		(TCV_UusData := OC_CodingOfUssdString (cpa_string))			
24		(TCV_Null := OO_InitCall_Asci (C_VGCSType))			
25		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)	(P)	1
26		ACTIVATE (OtherEventsFail_02)			To match ChReq retrans.
27		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		
28		L?DL_EstInCmsRq	CMSerReq (CServiceReq_01)		
28		ACTIVATE (OtherEventsFail_01)			Restore Normal default
Detailed Comments : 0. To request activation of implicit UUS1 with a specific string 1. Enter group transmit mode with "norma" SETUP procedure and very early assignment. 2. To receive the SETUP message with the UUS information element including the data value "abcdef9" 3. TERMINATION message sent with the cause "Network failure" 4. To receive the SETUP message with the UUS information element including the data value "abcdefghijklmnpqrstuvwxy012345" 5. Wait 10 seconds before clearing the call					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_11_3

Group : VGCS_VBS/

Purpose : To verify that upon initiation of an outgoing call with User-to-Dispatcher Information by the user, the MS includes a Compressed User-to-Dispatcher Information element in the IMMEDIATE SETUP 2 message.
To verify that the VBS fast call can be successfully established and cleared.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMO_Asci (C_Full, C_asciService_vbs)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlta, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_ImmSetup			
6		ltree_ImmSetup			
7		(TCV_Null := OO_SelectPriorityLevel (0))			Fast call set-up
8		(TCV_Null := OO_ActivateUTDI ("123456790"))			1
9		(TCV_Null := OO_InitImmediateCall_Asci (C_VBSType))			
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)	ChReq (ChRequest_02)		To match ChReq retrans.

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		L!DL_UdatRqImmss	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_slot, TCV_tsc, TimingAdv(30), TCV_tch_arfcn, C_normal_paging))		
12		L?DL_EstInImSt2 (TCV_TI := DL_EstInImSt2.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_EstInImSt2.msg.gi.ref)	DLEstInd_ImmSetup2 (ImmSetupAsci_2 (C_VBStype, TSPX_CKSNDf))	(P)	2
13		ACTIVATE(OtherEventsFail_01)			
14		+ CCModifyTCH (TSPX_TmSltA, TSPX_TscA)			
15		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (C_VBStype, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
16		(TCV_Res := OM_TCHThroConn_Asci (C_VBStype, TCV_chTch))			
17		+Check_Result			
18		START T_dly (10000)			3
19		?TIMEOUT T_dly			
20		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, C_VBStype , INT_TO_BIT(17,7)))		4
21		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
Detailed Comments : 1. To request activation of User-to-Dispatcher with a specific string 2. To receive the SETUP message with the User-to-Dispatcher information element 3. Wait 10 seconds before clearing the call 4. TERMINATION message sent with the cause "Network failure"					

Test Case Dynamic Behaviour

Test Case Name : TC_26_14_11_4

Group : VGCS_VBS/

Purpose : To verify that upon initiation of a group call with User-to-Dispatcher Information by the user, the MS includes a Compressed User-to-Dispatcher Information element in the IMMEDIATE SETUP 2 message.
To verify that the VGCS fast call can be successfully established and cleared.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+ BasicServiceMO_Asci (C_Full, C_asciService_vgcs)			
4		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_ImmSetup			
6		ltree_ImmSetup			
7		(TCV_Null := OO_SelectPriorityLevel (0))			Fast call set-up
8		(TCV_Null := OO_ActivateUTDI ("123456790"))			1
9		(TCV_Null := OO_InitImmediateCall_Asci (C_VGCSType))			
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)	ChReq (ChRequest_02)		To match ChReq retrans.

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		L!DL_UdatRqImm	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_slot, TCV_tsc, TimingAdv(30), TCV_tch_arfcn, C_normal_paging))		
12		L?DL_EstInImSt2 (TCV_TI := DL_EstInImSt2.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_EstInImSt2.msg.gi.ref)	DLEstInd_ImmSetup2 (ImmSetupAsci_2 (C_VGCSType, TSPX_CKSNDf))	(P)	2
13		ACTIVATE(OtherEventsFail_01)			
14		+ CCModifyTCH (TSPX_TmSltA, TSPX_TscA)			
15		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (C_VGCSType, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
16		(TCV_Res := OM_TCHThroConn_Asci (C_VGCSType, TCV_chTch))			
17		+Check_Result			
18		START T_dly (10000)			3
19		?TIMEOUT T_dly			
20		L!DL_DatRqTerm	Termination (TCV_chTch, Termination_Def (TCV_TI, C_VGCSType , INT_TO_BIT(17,7)))		4
21		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
Detailed Comments : 1. To request activation of User-to-Dispatcher with a specific string 2. To receive the SETUP message with the User-to-Dispatcher information element 3. Wait 10 seconds before clearing the call 4. TERMINATION message sent with the cause "Network failure"					

Test Case Dynamic Behaviour

Test Case Name : TC_31_12_1

Group : eMLPP/

Purpose : For the MS supporting MO, to verify that:

1. When user selects priority level for normal MO call, the priority level is indicated in the signalling message.
2. The MS verifies the selected priority level against the priority levels stored in the SIM. If the selected priority is not allowed, then the priority of the call shall be modified to that of the nearest allowed priority level below the requested level.
3. If the user does not select a priority level, the priority level is not indicated in the signalling message.
4. If a priority selection is performed by the user the MS provides the priority level information element in L3-MM CM SERVICE REQUEST message when a group call is initiated.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3	body	(TCV_Null := OO_SelectPriorityLevel (3))			4
4		+ltree_CheckMOCall (1)			
5		(TCV_Null := OO_SelectPriorityLevel (0))			5
6		+ltree_CheckMOCall (2)			
7		+ltree_CheckMOCall (3)			
8		+ ltree_EstablishMOCall			
9		+ ltree_EstablishGroupCall			
10		+ ltree_FastCallSetup			
		ltree_CheckMOCall (k : INTEGER)			
11		+ ltree_InitCallMO (C_Telephony)			
12		+ ltree_CheckCallMO (k, C_Telephony)			
13		+ ltree_InitCallMO (C_EmgCall)			
14		+ ltree_CheckCallMO (k, C_EmgCall)			
15		[TSPC_VGCS_Originating OR TSPC_VBS_Originating]			
16		+ ltree_InitGroupCall			
17		+ ltree_CheckCallMO (k, C_Telephony)			
		ltree_InitCallMO (svc : SERVICES)			
18		(TCV_AsciTest := FALSE)			
19		+ BasicServiceMO (svc, C_Full)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20	AC_020	+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			To match ChReq retrans.
21		+ InitCall (svc)			
22		ltree_InitGroupCall			
23		(TCV_AsciTest := TRUE)			
24		+ BasicServiceMO_Asci (TSPX_MTChRateA, C_asciService_default)			
25		+ CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
26		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
27		ltree_CheckCallMO (k : INTEGER; svc : SERVICES)			
28		+ ltree_CMServiceReq (k , svc)			
29		L!DL_DatRqCmsRej			
30		+PostMainLinkRel(TCV_ch)			
31		ltree_CMServiceReq (k : INTEGER; svc : SERVICES)			
32		L?DL_RacInChRq			
33		(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
34		ACTIVATE(OtherEventsFail_02)			
35		L!DL_UdatRqImmass			
36		+ ltree_MatchServRq (k, svc)			
37		ACTIVATE(OtherEventsFail)			
38		ltree_MatchServRq (k : INTEGER; svc : SERVICES)			
39		[(k=1) AND (svc = C_Telephony)]			
40		L?DL_EstInCmsRq			
41		[(k=2) AND (svc = C_Telephony)]			
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37	AC_0 21	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_eMlpp ('011'B))	(P)	2
38		[(k=3) AND (svc = C_Telephony)]			
39	AC_0 22	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_Noemlpp)	(P)	3
40		[(k=1) AND (svc = C_EmgCall)]			
41	AC_0 23	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_eMlppEmg ('010'B))	(P)	1
42		[(k=2) AND (svc = C_EmgCall)]			
43	AC_0 24	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_eMlppEmg ('011'B))	(P)	2
44		[(k=3) AND (svc = C_EmgCall)]			
45	AC_0 25	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_NoemlppEmg)	(P)	3
46		[C_Yes]		(I)	
47		ltree_EstablishMOCall			
48		(TCV_Null := OO_SelectPriorityLevel (3))			4
49		+ ltree_InitCallMO (C_Telephony)			
50		+ ltree_CMServReq (1, C_Telephony)			
51		+ Authentication (TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)			
52	AC_0 26	L!DL_DatRqCphmCmd	CphCmd (TCV_ch, CphModeCmd_02)		
53	AC_0 27	L?DL_DatInCphmCom	CphCom (CphModeCmp_01)	(P)	
54		L?DL_DatInSetup (TCV_Setup_mo1 := DL_DatInSetup.msg, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv(SetupInd_01)	(P)	
55		L!DL_DatRqCallProc	CallProc(TCV_chTch, CallProced_01(TCV_TI))		
56		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSlTDef, TSPX_TscDef, TSPX_TCHHSubDef)			
57		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
58	AC_0 28	L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
59		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
60		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, Proglnd_omit, UuInfo))		
61		L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))		
62		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62		+PostMainLinkRel(TCV_chTch)			
63		ltree_EstablishGroupCall			4
64		(TCV_Null := OO_SelectPriorityLevel (3))			
65		+ ltree_InitGroupCall			
66		+ltree_CMSErvReq (1, C_Telephony)			
67		+ Authentication (TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)			
68	AC_0 29	L!DL_DatRqCphmCmd	CphCmd (TCV_ch, CphModeCmd_02)		
69	AC_0 30	L?DL_DatInCphmCom	CphCom (CphModeCmp_01)	(P)	
70		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))	(P)	
71		+ CCMofifyTCH (TSPX_TmSlitDef, TSPX_TscDef)			
72		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
73		(TCV_Res := OM_TCHThroConn_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
74		+Check_Result			
75		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
76		ltree_FastCallSetup			Fast call set-up
77		(TCV_Null := OO_SelectPriorityLevel (0))			
78		(TCV_Null := OO_InitImmediateCall_Asci (TCV_VGCS_VBS_Type))			
79		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)	(P)	
80		ACTIVATE (OtherEventsFail_02)			To match ChReq retrans.
81		L!DL_UdatRqImmss	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_Tchtype, TSPX_TmSlitA, TSPX_TscA, TimingAdv(30), TCV_tch_arfcn, C_normal_paging))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
80		L?DL_EstInImSt (TCV_TI := DL_EstInImSt.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_EstInImSt.msg.gi.ref)	DLEstInd_ImmSetup (ImmSetupAsci_Def (TCV_VGCS_VBS_Type, TSPX_CKSNDDef))	(P)	
81		ACTIVATE(OtherEventsFail_01)			
82		+ CCMModifyTCH (TSPX_TmSlTA, TSPX_TscA)			
83		LIDL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
84		(TCV_Res := OM_TCHThroConn_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			
85		+Check_Result			
86		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMO, C_GroupTransmit)			
Detailed Comments : 1. Receipt of a CM SERVICE REQUEST with the priority level set to 3. 2. Receipt of a CM SERVICE REQUEST with the priority level set to 2. 3. Receipt of a CM SERVICE REQUEST without priority level. 4. MMI action to select a priority level 3. 5. MMI action to select a priority level 0.					

Test Case Dynamic Behaviour

Test Case Name : TC_31_12_2

Group : eMLPP/

Purpose : For the MS supporting MT call, to verify that:

1. In idle mode the MS automatically accepts an incoming point-to-point call of priority level for which automatic answering is enabled.
2. In idle mode the MS alerts an incoming point-to-point call of a priority level for which automatic answering is disabled.
3. In dedicated mode and supporting Call Waiting, when a Call Waiting indication includes priority of sufficient higher level of the point-to-point call, the MS automatically confirms the waiting call and sends a hold message to the network. If a hold reject is received the other call is released and the waiting call is accepted.
4. In dedicated mode and supporting Call Waiting, when a Call Waiting indication includes priority of a level not high enough for automatic answering, the MS indicates the waiting call.
5. In group receive mode the MS automatically responds to the paging message containing sufficient higher priority level.
6. In group receive mode the MS indicates an incoming point-to-point call of a priority level not high enough for automatic answering.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ BasicServiceMT (TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+ IdleUpdated_ASCII (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
4		+ CCConfigTCH_nociph (TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+ ltree_InitMTCall (Priority_emlpp('011'B), Signal_Omit , '011'B)			priority level 2
6		+ ltree_NoAutomatic			

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Test Case Dynamic Behaviour							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
7	AC_3 1	+ ltree_InitMTCall (Priority_emlpp('100'B), Signal_Omit, '100'B)			priority level 1		
8		+ ltree_Automatic			priority level 3		
9		+ ltree_SendDisconnect (TCV_chTch, TI_01, TI_02)					
10		+ PostMainLinkRel (TCV_chTch)					
11		+ ltree_InitMTCall_noPriorityPaging (Priority_emlpp('010'B), Signal_Omit)					
12		+ ltree_Automatic					
13		+ ltree_2ndCallAuto					
14		+ ltree_2ndCallNoAuto					
15		[TSPC_VGCS_Listening OR TSPC_VBS_Listening]					
16		+ ltree_GRM					
17		[C_Yes]					
		ltree_InitMTCall (priority : PRT ; signal : SIGNAL; prt_level : B_3)					
18		(TCV_AsciTest := FALSE)					
19		+ CCEstablishMT_SDCCH4_eMLPP (TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDf, prt_level)					
20		(TCV_Setup_mt.pr := priority , TCV_Setup_mt.sig := signal)					
21		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)				SetupSnd(TCV_ch, TCV_Setup_mt)	
22		L?DL_DatInCallCo				CallCfm (CallConfirm_01(TI_01))	
		ltree_InitMTCall_noPriorityPaging (priority : PRT ; signal : SIGNAL)					
23		+ CCEstablishMT_SDCCH4 (TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)					
24		(TCV_Setup_mt.pr := priority , TCV_Setup_mt.sig := signal)					
25		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)				SetupSnd(TCV_ch, TCV_Setup_mt)	
26		L?DL_DatInCallCo				CallCfm (CallConfirm_01(TI_01))	
		ltree_NoAutomatic					
27		+ CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)					
28		L?DL_DatInAlert				AlertRcv (AlertingInd_02(TI_01))	
29		+ ltree_CheckAlert					
30		(TCV_Null := OO_HookOff())					
31		L?DL_DatInConn				ConnRcv(Connect_01(TI_01))	(P)
32		L!DL_DatRqConnAck				ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))	

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33	AC_3 2	+ ltree_SendDisconnect (TCV_chTch, TI_01, TI_02)	ConnRcv(Connect_01(TI_01))	(P)	Priority level 1
34		+PostMainLinkRel(TCV_chTch)			
35		ltree_Automatic			
36		L?DL_DatInConn			
37		+CCAssignTCH(TSPX_TmSlitDef, TSPX_TscDef)			
38		L!DL_DatRqConnAck			
39		(TCV_Res := OO_CheckCallAutoAnswered ())			
40		+ Check_Result			
41		ltree_2ndCallAuto			
42	AC_3 3	(TCV_Setup_mt.pr := Priority_emlpp ('100'B) , TCV_Setup_mt.sig := Signal_02)	SetupSnd(TCV_ch, TCV_Setup_mt)		
43	AC_3 4	L!DL_DatRqSetup (TCV_TI1.ti_f := '0'B, TCV_TI1.ti_v := '001'B, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B)	CallCfm (CallConfirm_02(TCV_TI2))	(P)	
44		[TSPX_MTBscSvcA = C_Telephony]	HoldRcv(Holdpdu_01(TI_01))	(P)	
45		L?DL_DatInHold CANCEL T_dly	HoldRjSnd (TCV_chTch, HoldReject_01(TI_02))		
46	AC_3 5	L! DL_DatRqHoldRj			
47		+ ltree_ReceivedDisconnect (TCV_chTch, TI_01, TI_02)	ConnRcv(Connect_01(TCV_TI2))	(P)	
48		L?DL_DatInConn	ConnAckSnd(TCV_chTch, ConnectAck_01(TCV_TI1))		
49	AC_3 6	L!DL_DatRqConnAck			
50		[C_Yes]			
51		+ ltree_ReceivedDisconnect (TCV_chTch, TI_01, TI_02)	ConnRcv(Connect_01(TCV_TI2))	(P)	
52	AC_3 7	L?DL_DatInConn	ConnAckSnd(TCV_chTch, ConnectAck_01(TCV_TI1))		
53		L!DL_DatRqConnAck			
54		ltree_2ndCallNoAuto			
55	AC_3 7	(TCV_Setup_mt.pr := Priority_emlpp ('100'B) , TCV_Setup_mt.sig := Signal_02)	SetupSnd(TCV_ch, TCV_Setup_mt)	(P)	Priority level 1
56		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)	CallCfm (CallConfirm_02(TI_01))		
57		L?DL_DatInCallCo	AlertRcv (AlertingInd_02(TI_01))		
58		L?DL_DatInAlert			
59		(TCV_Res := OO_AltIndCHK ())			
		+ Check_Result			
		+ ltree_SendDisconnect (TCV_chTch, TCV_TI2, TCV_TI1)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
60		ltree_GRM			
61		(TCV_AsciTest := TRUE)			priority level 3
62		+ PreEnter_Asci_GRMeMLPP (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d, '010'B)			
63		+ CCEstablishMT_SDCCH4_eMLPP (TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef, '101'B)			
64		(TCV_Setup_mt.sig := Signal_Omit)			
65		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)	SetupSnd(TCV_ch, TCV_Setup_mt)		
66		L?DL_DatInCallCo	CallCfm (CallConfirm_01(TI_01))		
67		+ ltree_Automatic			
68		+ ltree_SendDisconnect (TCV_chTch, TI_01, TCV_TI)			
69		+ PostMainLinkRel (TCV_chTch)			
70		+ PreEnter_Asci_GRMeMLPP (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d, '010'B)			
71		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_eMLPP ('010'B))		priority level 3
72		(TCV_Res := OO_CheckPagingInfoInd (C_No, '100'B))			
73		+ Check_Result			
74		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
75		ltree_SendDisconnect (ch: LOGICCH ; tir, tis: TI)			
76		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(tis, Cause_01, ProgInd_omit, UuInfo))		
77		L?DL_DatInRel	ReleaseRcv(Release_10(tir))		
78		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(tis))		
79		ltree_ReceivedDisconnect (ch: LOGICCH; tir, tis: TI)			
80	AC_3	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(tir, Cause_01))	(P)	

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
78		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, ReleaseReq_inv_01(tis))		
79		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(tir))		
80		ltree_CheckAlert [TSPC_AlertInd]			
81		(TCV_Res := OO_AltIndCHK())			
82		+Check_Result			
83		[NOT TSPC_AlertInd]			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_12_3

Group : eMLPP/

Purpose : For the MS supporting VGCS/VBS listening, to verify that:

1. In idle mode the MS automatically accepts an incoming VGCS or VBS call of sufficient priority level.
2. In idle mode the MS indicates an incoming VGCS or VBS call of priority level not high enough for automatic answering.
3. In dedicated mode, the MS automatically accepts an incoming VGCS or VBS call of sufficient priority level.
4. In dedicated mode, the MS indicates an incoming VGCS or VBS call of priority level not high enough for automatic answering.
5. In group receive mode the MS automatically accepts an incoming VGCS or VBS call of sufficient priority level.
6. In group receive mode the MS indicates an incoming VGCS or VBS call of priority level not high enough for automatic answering.
7. An incoming VGCS or VBS call does not pre-empty an on-going emergency call with a lower priority level.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ IdleUpdated_ASCI (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3		+BasicServiceMT_Asci (TSPX_MTChRateA, C_asciService_default, TSPX_TCHHSubDef)			
4		+CCConfigTCH_Asci (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d)			
5		+ ltree_Notif_Nch			
6		+ ltree_Notif_Facch			
7		+ ltree_Facch_Emergency			
8		+ ltree_GRM			
		ltree_Notif_Nch			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn) , '100'B))		priority level 1
10		+ Wait (C_T_Wait1stChReq)			wait 30 s
11		(TCV_Res := OO_CheckCallAutoAnswered ())			
12		+ Check_Result			
13		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
14		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn) , '010'B))		priority level 3
15		+ ltree_CheckNotif			
16		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		
		ltree_Notif_Facch			
17		(TCV_AsciTest := FALSE, TCV_chTch1 := TCV_chTch, TCV_arfcn_asci1 := TCV_tch_arfcn)			
18		+BasicServiceMT (C_Telephony, TSPX_MTChRateA)			k=2
19		+CCConfigTCH (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltA, TSPX_TscA, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
20		+PreEnterCCstateU10_AsciEMLPP (TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate , '010'B)			priority level 3
21		(TCV_AsciTest := TRUE)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_arfcn_asci1), '011'B))		priority level 2
23		LIDL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch1, NotifFACCH_PagingEmlpp ('011'B))		
24		+ Wait (C_T_Wait1stChReq)			wait 30 s
25		+ ltree_ReceivedDisconnect (TCV_chTch, TI_01, TI_02)			
26		(TCV_Res := OO_CheckCallAutoAnswered ())			
27		+ Check_Result			
28		+ PostMainLinkRel_Asci (TCV_chTch1, C_CallMT, C_GroupReceive)			
29		+ ltree_Notif_Facch_Contunue			
30		ltree_Notif_Facch_Contunue			
31		(TCV_AsciTest := FALSE) +PreEnterCCstateU10_AsciEMLPP (TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate , '010'B)			priority level 3
32		(TCV_AsciTest := TRUE)			
33		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_arfcn_asci1), '001'B))		priority level 4
34		LIDL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch1, NotifFACCH_PagingEmlpp ('001'B))		
35		+ ltree_CheckNotif			
36		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37		LIDL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch1, NotifFACCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		
38		+ ltree_SendDisconnect (TCV_chTch, TI_01, TI_02)			
39		ltree_Facch_Emergency			
40		(TCV_AsciTest := FALSE)			priority level 3
41		+PreEnterCCstateEU10_AsciEMLPP (TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate , '010'B)			
42		(TCV_AsciTest := TRUE)			
43		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, TCV_arfcn_asci1), '011'B))		priority level 2
44		LIDL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch1, NotifFACCH_PagingEmlpp ('011'B))		
45		+ ltree_CheckNotif			
46		LIDL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		
47		LIDL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch1, NotifFACCH_NoChDescr (TSPX_VCallref_NotActive , TCV_VGCS_VBS_Type))		
48		+ ltree_SendDisconnect (TCV_chTch, TCV_TI0, TCV_TI)			
49		ltree_GRM			
50		+ PreEnter_Asci_GRMeMLPP (TSPX_MTChRateA, C_asciService_default, TSPX_VCallref_Active1, TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchAsci1, C_arfcn_tchAsci1d , '010'B)			priority level 3

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_tch_arfcn), '101'B))		priority level 1
50		L!DL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch, NotifFACCH_PagingEmlpp ('101'B))		
51		(TCV_Res := OO_CheckCallAutoAnswered ())			
52		+ Check_Result			
53		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , NotifNCH_ChDescr_eMLP P (TSPX_VCallref_Active1 , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, TCV_tch_arfcn), '001'B))		priority level 4
54		L!DL_UdatRqNtFACCH	NotifyFACCH (TCV_chTch, NotifFACCH_PagingEmlpp ('001'B))		
55		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active1))			
56		+Check_Result			
57		+ PostMainLinkRel_Asci (TCV_chTch, C_CallMT, C_GroupReceive)			
58		ltree_CheckNotif + Wait (C_T_Wait1stChReq)			wait 30 s
59		(TCV_Res := OO_CheckNotifInd (TSPX_VCallref_Active1))			
60		+Check_Result			
61		ltree_SendDisconnect (ch : LOGICCH ; tir, tis: TI) L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(tis, Cause_01, Proglnd_omit, UuInfo))		
62		L?DL_DatInRel	ReleaseRcv(Release_10(tir))		
63		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(tis))		
64		+ PostMainLinkRel (ch) ltree_ReceivedDisconnect (ch: LOGICCH; tir, tis: TI)			
65	AC_3 8	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(tir, Cause_01))	(P)	
66		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, ReleaseReq_inv_01(tis))		

Continued from previous page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
67		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(tir))		
68		+ PostMainLinkRel (ch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_12_4

Group : eMLPP/

Purpose : To check that the MS:

1. Correctly requests a supplementary service transaction for registration of eMLPP in CHANNEL REQUEST message.
2. Correctly requests a supplementary service transaction for registration of eMLPP in the subsequent CM SERVICE REQUEST.
3. Then sends a REGISTER message containing the invoke of the RegisterSS operation with the expected parameter values for registration of eMLPP default priority level.
4. Provides the appropriate user indication (as described by the manufacturer) upon receipt of the result of the operation (in a RELEASE COMPLETE message).

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (180)			
2		+ IdleUpdated_ASCII (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3	body	+ ltree_CheckRegistration			
4		ltree_CheckRegistration (TCV_Null := OO_InitSS("**752#"))			Registra tion for eMLPP with default priority set to 2
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_18)		
6		ACTIVATE(OtherEvents_02)			To match ChReq retrans.

Continued on next page

Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
7	AC_0 40	L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))	(P)	Restore Normal default	
8		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)			
9		ACTIVATE(OtherEventsFail)				
10		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)			
11		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components , TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_eMLPP), TCV_InvkId := TCV_Comp.[TCV_n].invoke.invokelD)	Register_03 (RegisterPdu_03 (facilityIErcviei (RegisterSS_eMLPP)))			
12		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09 (TCV_TI, facilityIEtsndiei (RegisterSSRslt_eMLPP(TCV_InvkId))))			
13		(TCV_Res := OO_SSresultCHK (C_RegEMLPP))				1.
14		+PostMainLinkRel(TCV_ch)				
Detailed Comments : 1. Check correct MMI user indication						

Test Case Dynamic Behaviour

Test Case Name : TC_31_12_5

Group : eMLPP/

Purpose : To check that the MS:

1. Correctly requests a supplementary service transaction for interrogation of eMLPP in CHANNEL REQUEST message.
2. Correctly requests a supplementary service transaction for interrogation of eMLPP in the subsequent CM SERVICE REQUEST.
3. Then sends a REGISTER message containing the invoke of the InterrogateSS operation with the expected parameter values for interrogation of eMLPP default priority level.
4. Provides the appropriate user indication (as described by PIXIT) upon receipt of the result of the operation (in a RELEASE COMPLETE message).

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (180)			
2		+ IdleUpdated_ASCII (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2, C_NchFB_0, C_NchUsed_B0, C_NchNB_1, C_Sys4ro_Default)			
3	body	+ ltree_CheckRegistration			
4		ltree_CheckRegistration			
5		(TCV_Null := OO_InitSS("#75#"))			?????
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEvents_02)	ChReq(ChRequest_18)		To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
8		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	AC_041	L!DL_DatRqCmsAcp	CMSErAcp(TCV_ch, CMLServiceAcp_01)	(P)	1.
11		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components ,	Register_03 (RegisterPdu_03 (facilityIErcviei (InterrogateSS_eMLPP)))		
12		TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_eMLPP), TCV_InvkId := TCV_Comp.[TCV_n].invoke.invokeId)	RelComSnd(TCV_ch, ReleaseCmp_09 (TCV_TI, facilityIEtsndiei(InterrogateSSRsIt_eMLPP(TCV_InvkId))))		
13		(TCV_Res := OO_SSresultCHK (C_ResInterEMLPP))			
14		+PostMainLinkRel(TCV_ch)			
Detailed Comments : 1. Check correct MMI user indication					

Test Case Dynamic Behaviour

Test Case Name : TC_31_14_1_1

Group : UUS/Implicit_UUS1/

Purpose : To verify that upon initiation of an outgoing basic call with implicit UUS1 by the user, the MS includes a User-user information element in the SETUP message.

To verify that inclusion of the User-user information element with different data length in either of the downlink messages ALERTING, CONNECT, DISCONNECT or RELEASE COMPLETE, causes no adverse effects on the operation of the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard (300)			
2		+BasicServiceMO (C_Telephony, TSPX_Telephony_Rate)			
3		+IdleUpdated (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+ ltree_1			
6		+ ltree_2			
7		+ ltree_3			
8		ltree_1			
9		+ ltree_InitCall_UUS1 ("abc0123456")			
10		(TCV_Setup_mo.uu := UuInfo_R ('0B'O, TCV_UusData))			
11		L?DL_DatInSetup (TCV_Setup_mo1 := DL_DatInSetup.msg, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B)			
12		L!DL_DatRqRelCmp			
13		+PostMainLinkRel (TCV_ch)			
14		ltree_2			
15		+ ltree_InitCall_UUS1 ("abc")			
16		(TCV_Setup_mo.uu := UuInfo_R ('04'O, TCV_UusData))			
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		L?DL_DatInSetup (TCV_Setup_mo1 := DL_DatInSetup.msg, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv (TCV_Setup_mo)	(P)	4
16		(TCV_UusData := OC_CodingOfUssdString ("0123456789abcdefghijklmnopqrstuvwxyz"))			
17		L!DL_DatRqRelCmp	RelComSnd (TCV_ch, ReleaseCmp_UUS (TCV_TI, UuInfo_S ('25'O , TCV_UusData)))		5
18		+ CheckUUSDisplay ("0123456789abcdefghijklmnopqrstuvwxyz" z")			12
19		+ CheckTIsInStateU0 (TRUE, TCV_ch)			6
20		+ PostMainLinkRel (TCV_ch)			
		ltree_3			
21		+ ltree_InitCall_UUS1 ("123497")			
22		(TCV_Setup_mo.uu := UuInfo_R ('07'O, TCV_UusData))			
23		L?DL_DatInSetup (TCV_Setup_mo1 := DL_DatInSetup.msg, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv (TCV_Setup_mo)	(P)	7
24		+ Authentication (TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)			
25		L!DL_DatRqCallProc	CallProc (TCV_ch, TCV_CallProc)		
26		+ CCAssignTCH (TSPX_TmSlfDef, TSPX_TscDef)			
27		(TCV_UusData := OC_CodingOfUssdString ("A")			
28		L!DL_DatRqAlert	AlertSnd (TCV_chTch, Alerting_S_UUS (TCV_TI,UuInfo_S ('02'O , TCV_UusData)))		8
29		+ CheckUUSDisplay ("A")			12
30		+ CCstatuschk_05 (C_U4, TCV_TI, TCV_ch)			14
31		(TCV_UusData := OC_CodingOfUssdString ("abcdefghijklmnopqrstuvwxyz012 3456789abcdefghijklmnopqrstuvwxyz xyz0123456789abcdefghijklmnop qrstuvwxyz01"))			
32		L!DL_DatRqConn	ConnSnd (TCV_chTch, Connect_S_UUS (TCV_TI, UuInfo_S ('65'O, TCV_UusData)))		9
33		L?DL_DatInConnAck	ConnAckRcv (ConnectAck_02 (TCV_TI0))	(P)	

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		+ CheckUUSDisplay ("abcdefghijklmnopqrstuvwxyz0123456789abcdefghijklmnopqrstuvwxyz01")			12
35		+ ltree_continue			
36		ltree_continue			
37		START T_dly (10000)			13
38		?TIMEOUT T_dly			
39		LIDL_DatRqDisc	DiscSnd (TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_S_NoData))		10
40		L?DL_DatInRel	ReleaseRcv (Release_10 (TCV_TI0))	(P)	
41		(TCV_UusData := OC_CodingOfUssdString ("RELEASE COMPLETE"))			
42		LIDL_DatRqRelCmp	RelComSnd (TCV_chTch, ReleaseCmp_UUS (TCV_TI, UuInfo_S ('11'O, TCV_UusData)))		11
43		+ CheckUUSDisplay ("RELEASE COMPLETE")			12
44		+ CheckTIsInStateU0 (TRUE, TCV_chTch)			6
45		+ PostMainLinkRel (TCV_chTch)			
46		ltree_InitCall_UUS1 (cpa_string : IA5String)			
47		(TCV_Null := OO_ActivateImplicitUUS1 (cpa_string))			0
48		(TCV_UusData := OC_CodingOfUssdString (cpa_string))			
		+ InitCall (C_Telephony)			
		+ PreEnterCCstateU01_21 (TSPX_SDCCH4SubDef, TimingAdv (0))			1
Detailed Comments : <ol style="list-style-type: none"> 0. To request activation of implicit UUS1 with a specific string 1. To bring the MS into CC state U0.1 by procedure in table 26.8.1.2/1 2. To receive the SETUP message with the UUS information element including the data value "abc0123456" 3. To send RELEASE COMPLETE message with the cause 'normal call clearing' 4. To receive the SETUP message with the UUS information element including the data value "abc" 5. To send RELEASE COMPLETE message with the User-user data value set to "0123456789abcdefghijklmnopqrstuvwxyz" 6. Check that IUT is in call state 0, i.e. IUT has correctly accepted the RELEASE COMPLETE message 7. To receive the SETUP message with the UUS information element including the data value "12397" 8. To send an ALERTING message with the User-user data value set to "A" 9. To send a CONNECT message with the User-user data value set to "abcdefghijklmnopqrstuvwxyz0123456789abcdefghijklmnopqrstuvwxyz0123456789abcdefghijklmnopqrstuvwxyz01" 10. To send a DISCONNECT message with the User-user information element present but without data value 11. To send RELEASE COMPLETE message with the User-user data value set to "RELEASE" 					

Test Case Dynamic Behaviour

Detailed Comments : ...

COMPLETE"

12. To check that the UUS string sent by SS to MS is correctly displayed to the user

13. Wait 10 seconds before clearing the call

14. Check that IUT is in call state 4, i.e. IUT has correctly accepted the ALERTING message

Test Case Dynamic Behaviour

Test Case Name : TC_31_14_1_2

Group : UUS/Implicit_UUS1/

Purpose : To verify that, the receipt of SETUP message including user-user information element with a short or large data value, causes no adverse effects on the call establishment operation of the MS.

To verify that MS could include User-user information element in either of the uplink messages ALERTING or CONNECT.

To verify that inclusion of the User-user information element with different data length in either of the downlink message DISCONNECT or RELEASE COMPLETE causes no adverse effects on the operation of the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+ BasicServiceMT (C_Telephony, TSPX_Telephony_Rate)			
3		+ IdleUpdated (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+ ltree_1			
5		+ ltree_2			
6		+ ltree_3			
		ltree_1			
7		+ CCEstablishMT_SDCCH4 (TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			1
8		(TCV_UusData := OC_CodingOfUssdString ("012"))			
9		(TCV_Setup_mt.uu := UuInfo_S('04'O, TCV_UusData))			
10		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		2
11		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	
12		+ CheckUUSDisplay ("012")			3
13		LIDL_DatRqRelCmp	RelComSnd (TCV_ch, ReleaseCmp_02 (TI_02))		4
14		+PostMainLinkRel (TCV_ch)			
		ltree_2			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			1
16		(TCV_UusData := OC_CodingOfUssdString ("abcdefghijklnopqrstuvwxy012345"))			
17		(TCV_Setup_mt.uu := UuInfo_S('21'O, TCV_UusData))			
18		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		2
19		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	
20		+ CheckUUSDisplay (3
21		"abcdefghijklnopqrstuvwxy012345") (TCV_UusData := OC_CodingOfUssdString ("abcdefghijklnopqrstuvwxy0123456 789"))			
22		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_UUS (TI_02, UuInfo_S('25'O, TCV_UusData))		5
23		+ CheckUUSDisplay (3
24		"abcdefghijklnopqrstuvwxy01234 56789")			
24		+ CheckTlInStateU0(TRUE, TCV_ch)			6
25		+PostMainLinkRel (TCV_ch)			
26		ltree_3 (TCV_Null := OO_ActivateImplicitUUS1("123456aA"))			
27		+ CCEstablishMT_SDCCH4 (TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			1
28		+ Authentication (TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)			
29		(TCV_Setup_mt.uu := UuInfo_S_NoData)			
30		L!DL_DatRqSetup	SetupSnd (TCV_ch, TCV_Setup_mt)		2
31		L?DL_DatInCallCo	CallCfm (CallConfirm_01(TI_01))	(P)	
32		+ ltree_ReceiveAlert			
33		(TCV_Null := OO_HookOff())			
34		+ ltree_ReceiveConnect			
35		+CCAssignTCH(TSPX_TmSlitDef, TSPX_TscDef)			
36		L!DL_DatRqConnAck	ConnAckSnd (TCV_chTch, ConnectAck_01(TI_02))		
37		+ ltree_continue			
38		ltree_continue START T_dly(10000)			
39		?TIMEOUT T_dly			
40		(TCV_UusData := OC_CodingOfUssdString ("abcdefghijklnopqrstuvwxy0123456789"))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
41		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_S ('25'O, TCV_UusData)))		
42		L?DL_DatInRel	ReleaseRcv (Release_10 (TI_01))	(P)	
43		+ CheckUUSDisplay ("abcdefghijklnopqrstuvwxy0123456789")			3
44		(TCV_UusData := OC_CodingOfUssdString ("A"))			
45		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_UUS (TI_02, UuInfo_S ('02'O, TCV_UusData)))		5
46		+ CheckUUSDisplay ("A")			3
47		+ CheckTIsInStateU0 (TRUE, TCV_chTch)			6
48		+ PostMainLinkRel (TCV_chTch)			
49		Itree_ReceiveAlert (TCV_UusData := OC_CodingOfUssdString ("12346aA"))			
50		[NOT TSPC_Serv_SS_Send_UUS1_ALERTING]			
51		L?DL_DatInAlert	AlertRcv (AlertingInd_02(TI_01))		
52		[TSPC_Serv_SS_Send_UUS1_ALERTING]			
53		L?DL_DatInAlert	AlertRcv (Alerting_R_UUS (TI_01, UuInfo_R ('08'O, TCV_UusData)))	(P)	
54		Itree_ReceiveConnect [NOT TSPC_Serv_SS_Send_UUS1_CONNECT]			
55		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
56		[TSPC_Serv_SS_Send_UUS1_CONNECT]			
57		L?DL_DatInConn	ConnRcv(Connect_R_UUS(TI_01, UuInfo_R ('08'O, TCV_UusData)))	(P)	
Detailed Comments : 1. Establish a MT SDCCH/4 connection. 2. Send a SETUP message including a User–User information element for implicit UUS1. 3. To check that the UUS string sent by SS to MS is correctly displayed to the user 4. To send RELEASE COMPLETE message with the cause "normal call clearing" 5. To send RELEASE COMPLETE message with a User–user information element 6. Check that IUT is in call state 0, i.e. IUT has correctly accepted the RELEASE COMPLETE message					

Test Case Dynamic Behaviour

Test Case Name : TC_31_14_1_3

Group : UUS/Implicit_UUS1/

Purpose : To verify that, when in active call state and supporting Call HOLD, to initiate a second call with implicit UUS1, the MS places the first call on hold and sends a SETUP message with the User-user information element. Verify that the second call is successfully established.

In call active state and supporting Call waiting, when a Call Waiting indication includes a User-user information element, the MS accepts the awaiting call and places the first call on hold and successfully establishes the second call.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+ BasicServiceMO (C_Telephony , TSPX_Telephony_Rate)			
3		+ IdleUpdated (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+ CCConfigTCH (TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1
5		+ Est_MO_Call (TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2
6		+ ltree_2ndCallMO			
7		+ ltree_2ndCallMT			
8		ltree_2ndCallMO (TCV_Null := OO_ActivateImplicitUUS1 ("12345"))			3
9		+ InitCall (TCV_Service)			4
10		ACTIVATE(DTMFsig (TCV_chTch), OtherEventsFail)			
11		L?DL_DatInHold	HoldRcv (Holdpdu_01(TCV_TI0))		
12		L!DL_DatRqHoldAck	HoldAckSnd (TCV_chTch, HoldAckpdu_01 (TCV_TI))		
13		L?DL_DatInCmsRq	CMSerDatReq (C_MServiceReq_01)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		L!DL_DatRqCmsAcp	CMSerAcp (TCV_chTch, CMServiceAcp_01)		
15		(TCV_UusData := OC_CodingOfUssdString ("12345"))			
16		L?DL_DatInSetup (TCV_TI1 := DL_DatInSetup.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_CallProc.ti := TCV_TI2)	SetupRcv (SetupInd_UUS (UuInfo_R ('06'O, TCV_UusData)))	(P)	
17		L!DL_DatRqCallProc	CallProc (TCV_chTch, TCV_CallProc)		
18		+ ltree_continue			
19		ltree_continue (TCV_UusData := OC_CodingOfUssdString ("012"))			
20		L!DL_DatRqAlert	AlertSnd (TCV_chTch, Alerting_S_UUS (TCV_TI2, UuInfo_S ('04'O , TCV_UusData)))		9
21		+ CheckUUSDdisplay ("012")			5
22		+ CCstatuschk_05 (C_U4, TCV_TI2, TCV_ch)			
23		(TCV_UusData := OC_CodingOfUssdString ("abcdefghijkmnopqrstuvwxyz0123456789"))			
24		L!DL_DatRqConn	ConnSnd (TCV_chTch, Connect_S_UUS (TCV_TI2, UuInfo_S ('25'O, TCV_UusData)))		10
25		L?DL_DatInConnAck	ConnAckRcv (ConnectAck_02 (TCV_TI1))	(P)	
26		+ CheckUUSDdisplay ("abcdefghijkmnopqrstuvwxyz0123456789")			5
27		+ ltree_disconnect			
28		ltree_2ndCallMT + BasicServiceMT (C_Telephony,TSPX_Telephony_Rate)			
29		(TCV_Null := OO_ActivateImplicitUUS1 ("201"))			3
30		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
31		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
32		(TCV_UusData := OC_CodingOfUssdString ("012") , TCV_Setup_mt.uu := UuInfo_S ('04'O, TCV_UusData), TCV_TI2.ti_v:= '001'B, TCV_TI2.ti_f:= '0'B, TCV_TI1.ti_v:= '001'B, TCV_TI1.ti_f:= '1'B, TCV_Setup_mt.ti := TCV_TI2)			
33		L!DL_DatRqSetup	SetupSnd (TCV_ch, TCV_Setup_mt)		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		L?DL_DatInCallCo	CallCfm (CallConfirm_01(TCV_TI1))	(P)	5
35		+ CheckUUSDisplay ("012")			
36		+ ltree_ReceiveAlert			
37		(TCV_Null := OO_HookOff ())			
38		L?DL_DatInHold	HoldRcv (Holdpdu_01(TCV_TI0))		
39		L!DL_DatRqHoldAck	HoldAckSnd (TCV_chTch, HoldAckpdu_01(TCV_TI))		8
40		+ ltree_ReceiveConnect			
41		L!DL_DatRqConnAck	ConnAckSnd (TCV_chTch, ConnectAck_01(TCV_TI2))		
42		+ ltree_disconnect			
43		+ PostMainLinkRel(TCV_chTch)			
		ltree_ReceiveAlert			
44		(TCV_UusData := OC_CodingOfUssdString ("201"))			
45		[NOT TSPC_Serv_SS_Send_UUS1_ALERTING]			
46		L?DL_DatInAlert	AlertRcv (AlertingInd_02(TCV_TI1))		
47		[TSPC_Serv_SS_Send_UUS1_ALERTING]			
48		L?DL_DatInAlert	AlertRcv (Alerting_R_UUS (TCV_TI1, UuInfo_R ('09'O, TCV_UusData)))	(P)	
		ltree_ReceiveConnect			(P)
49		[NOT TSPC_Serv_SS_Send_UUS1_CONNECT]			
50		L?DL_DatInConn	ConnRcv(Connect_01(TCV_TI1))		
51		[TSPC_Serv_SS_Send_UUS1_CONNECT]			
52		L?DL_DatInConn	ConnRcv(Connect_R_UUS(TCV_TI1, UuInfo_R ('09'O, TCV_UusData)))		
		ltree_disconnect			
53		START T_dly(10000)			
54		?TIMEOUT T_dly			
55		L!DL_DatRqDisc	DiscSnd (TCV_chTch, DisconnS(TCV_TI2, Cause_01, ProgInd_omit, UuInfo_S_NoData))		
56		L?DL_DatInRel	ReleaseRcv (Release_10 (TCV_TI1))	(P)	
57		(TCV_UusData := OC_CodingOfUssdString ("A"))			6
58		L!DL_DatRqRelCmp	RelComSnd (TCV_chTch, ReleaseCmp_UUS (TCV_TI2, UuInfo_S ('02'O, TCV_UusData)))		
59		+ CheckUUSDisplay ("A")			5

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
60		+ CheckTIsInStateU0 (TRUE, TCV_chTch)			7
Detailed Comments : 1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels. 2. To bring the MS into U10 state of mobile originating call: call A-B. 3. To request activation of implicit UUS1 with a specific string 4. To enter hold MMI command. 5. To check that the UUS string sent by SS to MS is correctly displayed to the user 6. To send RELEASE COMPLETE message with a User-user data value 7. Check that IUT is in call state 0, i.e. IUT has correctly accepted the RELEASE COMPLETE message 8. To release the traffic channel. 9. To send an ALERTING message with the User-user information element included. 10. To send a CONNECT message with the User-user information element included.					

Test Case Dynamic Behaviour

Test Case Name : TC_31_15_1

Group : FM/

Purpose : To check that the MS correctly request a supplementary service transaction for registration of FM in CHANNEL REQUEST message and in the subsequent CM SERVICE REQUEST;

To check that the MS sends a REGISTER message using USSD phase 2 and containing the FM-request control message for registration;

To check that upon receipt of the result or heerror of the opeartion (in a RELEASE COMPLETE message), the the MS provides the appropriate user indication (as described by the manufacturer);

To check that upon receipt of a rejection from the network with the problem code "unrecognized operation" or a cause "Facility rejected", the MS re-attempt the request by using USSD version 1.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO (TSPX_MOBScSvcA, C_Full)			
3		+IdleUpdated (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+ ltree_error			
6		+ ltree_successful			
7		+ ltree_fallback			
8	body	ltree_error			
9		(TCV_counter_c:=1)			
10		REPEAT ltree_c_loop UNTIL [TCV_counter_c > 13]			
11		ltree_c_loop			
12		+ ltree_init_loop_variables			
13		(TCV_counter_c := TCV_counter_c+1)			
14		(TCV_Null := OO_InitSS (***214*04965878***#))			1
15		+ USSD_MMConnection			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		+ USSD_CheckOperation ("***214*04965878***#", TCV_UssdString1, TCV_UssdString2)			
15		+ PostMainLinkRel (TCV_ch)			
		ltree_successful			
16		(TCV_Null := OO_InitSS ("***214*04969***#"))			1
17		+ USSD_MMConnection			
18		+ USSD_CheckOperation ("***214*04969***#", "01", "Follow Me activated")			
19		+ PostMainLinkRel (TCV_ch)			
		ltree_fallback			
20		(TCV_Null := OO_InitSS ("***214*31245688***#"))			1
21		+ USSD_MMConnection			
22		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components, TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_eMLPP), TCV_Invkld := TCV_Comp.[TCV_n].invoke.invokeID)	Register_03 (RegisterPdu_04 (facilityIErcviei (ProcessUSSDReq_Inv ("***214*31245688***#"))))		2
23		LIDL_DatRqRelCmp	RelComSnd (TCV_ch, ReleaseCmp_09 (TCV_TI, facilityIEtsndiei (Reject_01 (TCV_Invkld))))		3
24		+ PostMainLinkRel (TCV_ch)			
25		+ USSD_MMConnection			
26		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components, TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_eMLPP), TCV_Invkld := TCV_Comp.[TCV_n].invoke.invokeID)	Register_03 (RegisterPdu_05 (facilityIErcviei (ProcessUSSDReq_Inv ("***214*31245688***#"))))	(P)	4
27		LIDL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ProcessUSSDReq_RR (TCV_Invkld, "01"))))		5
28		(TCV_Res := OO_CheckUssdDisplay ("01", "Follow Me activated"))			6
29		+ Check_Result			
30		+ PostMainLinkRel (TCV_ch)			
31		+ ltree_continue			
		ltree_continue			
32		(TCV_Null := OO_InitSS ("***214*31245688***#"))			
33		+ USSD_MMConnection			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	Register_03 (RegisterPdu_04 (facilityIErcviei (ProcessUSSDReq_Inv (***214*31245688***#))))		2
35		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_29(TCV_TI))		6
36		+ PostMainLinkRel (TCV_ch)			
37		+ USSD_MMConnection			
38		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components, TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_eMLPP), TCV_InvkId := TCV_Comp.[TCV_n].invoke.invokeID)	Register_03 (RegisterPdu_05 (facilityIErcviei (ProcessUSSDReq_Inv (***214*31245688***#))))	(P)	4
39		LIDL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ProcessUSSDReq_RR (TCV_InvkId, "01"))))		5
40		(TCV_Res := OO_CheckUssdDisplay ("01", "Follow Me activated"))			6
41		+ Check_Result			
42		+ PostMainLinkRel (TCV_ch)			
		ltree_init_loop_variables			
43		[TCV_counter_c = 1]			
44		(TCV_UssdString1 := "21" , TCV_UssdString2 := "Illegal interaction with incoming barring")			
45		[TCV_counter_c = 2]			
46		(TCV_UssdString1 := "22" , TCV_UssdString2 := "Unauthorised request")			
47		[TCV_counter_c = 3]			
48		(TCV_UssdString1 := "41" , TCV_UssdString2 := "Unknown remote party")			
49		[TCV_counter_c = 4]			
50		(TCV_UssdString1 := "42" , TCV_UssdString2 := "FM not subscribed")			
51		[TCV_counter_c = 5]			
52		(TCV_UssdString1 := "61" , TCV_UssdString2 := " Remote party already registered")			
53		[TCV_counter_c = 6]			
54		(TCV_UssdString1 := "64" , TCV_UssdString2 := "Unauthorised changes to remote party")			
55		[TCV_counter_c = 7]			
56		(TCV_UssdString1 := "65" , TCV_UssdString2 := "Illegal interaction with call forwarding")			
57		[TCV_counter_c = 8]			
58		(TCV_UssdString1 := "66" , TCV_UssdString2 := "Illegal interaction with call barrings")			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
59		[TCV_counter_c = 9]			
60		(TCV_UssdString1 := "67" , TCV_UssdString2 := "Request to own MSISDN not possible")			
61		[TCV_counter_c = 10]			
62		(TCV_UssdString1 := "80" , TCV_UssdString2 := "Forwarded-to number is invalid directory number")			
63		[TCV_counter_c = 11]			
64		(TCV_UssdString1 := "81" , TCV_UssdString2 := "insufficient information")			
65		[TCV_counter_c = 12]			
66		(TCV_UssdString1 := "82" , TCV_UssdString2 := "Forwarded-to number is a special code")			
67		[TCV_counter_c = 13]			
68		(TCV_UssdString1 := "83" , TCV_UssdString2 := "Conflicting situation with other supplementary services")			
Detailed Comments : 1 to activate the follow me request 2 Receipt of a REGISTER message with a facility information element including a ProcessUSSD-request invoke component for registration of FM and with the SS version indicator information element included 3 Send a RELEASE COMPLETE message with a reject component unrecognized operation 4 Receipt of a REGISTER message without SS version indicator information element and with the facility information element including the ProcessUSSD-request invoke component for FM registration 5 Send a RELEASE COMPLETE message with a positive result to the registration request in the return result component 6 Send a RELEASE COMPLETE message the the cause value: facility rejected					

Test Case Dynamic Behaviour

Test Case Name : TC_31_15_2

Group : FM/

Purpose : To check that the MS (as initiating subscriber or remote party) correctly request a supplementary service transaction for interrogation of FM in CHANNEL REQUEST message and in the subsequent CM SERVICE REQUEST;

To check that the MS sends a REGISTER message using USSD version 2 and containing the FM-request control message for interrogation;

To check that upon receipt of the result or the error of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)			1
2		+BasicServiceMO (TSPX_MOBScSvcA, C_Full)			
3		+IdleUpdated (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+ ltree_check_error			
6		+ ltree_check_successful			
7		ltree_check_error			
8		(TCV_counter_c:=1)			
9		REPEAT ltree_c_loop UNTIL [TCV_counter_c > 6]			
10		ltree_c_loop			
11		+ ltree_init_loop_variables			
12		(TCV_counter_c := TCV_counter_c+1)			
13		(TCV_Null := OO_InitSS (""#214*45896***#"))			
14		+ USSD_MMConnection			
		+ USSD_CheckOperation (""#214*45896***#", TCV_UssdString1, TCV_UssdString2)			
		+ PostMainLinkRel (TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		ltree_check_successful			1
16		+ltree_register			
17		(TCV_Null := OO_InitSS (
18		**#214*31245688***#))			
19		+ USSD_MMConnection			
20		+ USSD_CheckOperation (
21		**#214*31245688***#, "03 31245688",			
22		"Follow me activated to 31245688")			
23		+ PostMainLinkRel (TCV_ch)			
24		ltree_init_loop_variables			
25		[TCV_counter_c = 1]			
26		(TCV_UssdString1 := "21" , TCV_UssdString2			
27		:= "Illegal interaction with incoming barring")			
28		[TCV_counter_c = 2]			
29		(TCV_UssdString1 := "22" , TCV_UssdString2			
30		:= "Unauthorised request")			
31		[TCV_counter_c = 3]			
32		(TCV_UssdString1 := "41" , TCV_UssdString2			
33		:= "Unknown remote party")			
34		[TCV_counter_c = 4]			
35		(TCV_UssdString1 := "42" , TCV_UssdString2			
36		:= "FM not subscribed")			
37		[TCV_counter_c = 5]			
38		(TCV_UssdString1 := "62" , TCV_UssdString2			
39		:= "FM not registered to remote party")			
40		[TCV_counter_c = 6]			
41		(TCV_UssdString1 := "83" , TCV_UssdString2			
42		:= "Conflicting situation with other supplementary			
43		services")			
44		ltree_register			
45		(TCV_Null := OO_InitSS (***214*31245688***#)			
46)			
47		+ USSD_MMConnection			
48		+ USSD_CheckOperation (
49		***214*31245688***#, "01",			
50		"Follow Me activated")			
51		+ PostMainLinkRel (TCV_ch)			
Detailed Comments : 1 to activate the follow me request					

Test Case Dynamic Behaviour

Test Case Name : TC_31_15_3

Group : FM/

Purpose : To check that the MS, acting as an initiating subscriber or as a remote party, correctly request a supplementary service transaction for erasure of FM in CHANNEL REQUEST message and in the subsequent CM SERVICE REQUEST;

To check that the MS, as initiating subscriber or remote party, sends a REGISTER message using USSD version 2 and containing the FM-request control message for erasure;

To check that the MS, acting as a supervisor, correctly request a supplementary service transaction for forced erasure of FM in CHANNEL REQUEST message and in the subsequent CM SERVICE REQUEST;

To check that the MS, as supervisor, sends a REGISTER message using USSD version 2 and containing the FM-request control message for forced erasure;

To check that upon receipt of the result or the error of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (300)			
2		+BasicServiceMO (TSPX_MOBScSvcA, C_Full)			
3		+IdleUpdated (C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph (TSPX_TCHHSubDef, C_Ass, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+ ltree_erasure_error ("##214*45896***#")			1
6		+ltree_register			
7		+ ltree_erasure_successful ("##214*31245688***#")			1
8		+ ltree_erasure_error ("##214*45896*88*0436987*#")			2
9		+ ltree_erasure_successful ("##214*45896*88*0436987*#")			2
		ltree_erasure_error (ussd_code : IA5String)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	body	(TCV_UssdString := ussd_code)			
11		(TCV_counter_c:=1)			
12		REPEAT ltree_c_loop UNTIL [TCV_counter_c > 6]			
13		ltree_c_loop			
14		+ ltree_init_loop_variables			
15		(TCV_counter_c := TCV_counter_c+1)			
16		(TCV_Null := OO_InitSS (TCV_UssdString))			
17		+ USSD_MMConnection			
18		+ USSD_CheckOperation (TCV_UssdString , TCV_UssdString1, TCV_UssdString2)			
19		+ PostMainLinkRel (TCV_ch)			
20		ltree_erasure_successful (ussd_code : IA5String)			
21		(TCV_Null := OO_InitSS (ussd_code))			
22		+ USSD_MMConnection			
23		+ USSD_CheckOperation (ussd_code, "02", "Follow me deactivated")			
24		+ PostMainLinkRel (TCV_ch)			
25		ltree_init_loop_variables			
26		[TCV_counter_c = 1]			
27		(TCV_UssdString1 := "21" , TCV_UssdString2 := "Illegal interaction with incoming barring")			
28		[TCV_counter_c = 2]			
29		(TCV_UssdString1 := "22" , TCV_UssdString2 := "Unauthorised request")			
30		[TCV_counter_c = 3]			
31		(TCV_UssdString1 := "41" , TCV_UssdString2 := "Unknown remote party")			
32		[TCV_counter_c = 4]			
33		(TCV_UssdString1 := "42" , TCV_UssdString2 := "FM not subscribed")			
34		[TCV_counter_c = 5]			
35		(TCV_UssdString1 := "62" , TCV_UssdString2 := "FM not registered to remote party")			
36		[TCV_counter_c = 6]			
37		(TCV_UssdString1 := "63" , TCV_UssdString2 := "Remote party not registered to this MSISDN")			
38		[TCV_counter_c = 7]			
39		(TCV_UssdString1 := "64" , TCV_UssdString2 := "Unauthorised changes to remote party")			
40		[TCV_counter_c = 8]			
41		(TCV_UssdString1 := "66" , TCV_UssdString2 := "Illegal interaction with call barring")			
		[TCV_counter_c = 9]			
		(TCV_UssdString1 := "81" , TCV_UssdString2 := "Insufficient information")			
		[TCV_counter_c = 10]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
42		(TCV_UssdString1 := "84" , TCV_UssdString2 := "Inconsistent with registration")			3
43		ltree_register			
44		(TCV_Null := OO_InitSS ("**214*31245688**#"))			
45		+ USSD_MMConnection			
46		+ USSD_CheckOperation ("**214*31245688**#" , "01" , "Follow Me activated") + PostMainLinkRel (TCV_ch)			
Detailed Comments : 1 to check the follow me request for erasure 2 to check the follow me request for forced erasure 3 register MS to FM with respect to MSISDN 31245688					

Test Step Dynamic Behaviour					
Test Step Name : CCstatuschk_05(st : CCSTATE; ti : TI; ch: LOGICCH)					
Group : Miscellaneous/					
Objective : To check whether the MS under test is in the CC state 'st' and cause = #30.					
Default : OtherEventsFail					
Comments : if the cause value is #30 and the CC state value is 'st', the preliminary verdict is pass.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_085 5	(TCV_TI1.ti_v := ti.ti_v)	CCStESnd(ch, CCStatusEq_01(ti)) CCStRcv(ch, CCStatus_14(TCV_TI1, st))	(P)	
2		[ti.ti_f = '0'B]			
3		(TCV_TI1.ti_f := '1'B)			
4		+localtree			
5		[ti.ti_f = '1'B]			
6		(TCV_TI1.ti_f := '0'B)			
7		+localtree			
		localtree			
8		L!DL_DatRqCcstEnq			
9		L?DL_DatInCcst			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CheckUUSDisplay (text : IA5String)					
Group : Miscellaneous/					
Objective :					
Default :					
Comments : To check that the UUS srng sent by SS to MS is correctl disploed to the user.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_CheckUUSDisplay (text))			
2		+ Check_Result			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : USSD_CheckOperation (ussd_request , ussd_result_code, ussd_result_text : IA5String)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments : To check correct operation of FM request.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components, TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_eMLPP), TCV_InvkId := TCV_Comp.[TCV_n].invoke.invokeID)	Register_03 (RegisterPdu_04 (facilityIErcviei (ProcessUSSDReq_Inv (ussd_request))))	(P)	1.
2		L!DL_DatRqRelCmp	RelComSnd (TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ProcessUSSDReq_RR (TCV_InvkId, ussd_result_code))))		2.
3		(TCV_Res := OO_CheckUssdDisplay (ussd_result_code, ussd_result_text))			3.
4		+ Check_Result			

Detailed Comments : 1. Receipt of a REGISTER message containing a ProcessUSSD-Request invoke component containing the FM request given as parameter
2. Send a RELEASE COMPLETE message with a facility information element containing a processUSSD-request return result
3. Check that the USSD result is correctly displayed to the user.

Test Step Dynamic Behaviour					
Test Step Name : USSD_MMConnection					
Group : Miscellaneous/					
Objective :					
Default : OtherEventsFail					
Comments : To establish a MM connection for the transfert of USSD information.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_03)		To match ChReq retrans.
2		ACTIVATE (OtherEventsFail_02)			
3		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def (TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))		
4		L?DL_EstInCmsRq	CMSerReq (CMServiceReq_08)		Restore Normal default
5		ACTIVATE (OtherEventsFail)			
6		L!DL_DatRqCmsAcp	CMSerAcp (TCV_ch, CMServiceAcp_01)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : RcvSetupOrEsetup(Setup: SETUP_MO_PDU; Esetup : ESETUP_PDU; Ecall : BOOLEAN) Group : Miscellaneous/ Objective : To manage Setup Mobile Originated. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[NOT Ecall]			
2		L?DL_DatInSetup (TCV_Setup_mo1 := DL_DatInSetup.msg, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv(Setup)		
3		+CallProcGen(TCV_Setup_mo1, TCV_Service)			
4		[Ecall]			
5		L?DL_DatInESetup (TCV_Esetup1 := DL_DatInESetup.msg, TCV_TI := TCV_Esetup1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	ESetupRcv(Esetup)		
6		+CallProcGen(TCV_Setup_mo1, TCV_Service)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Adjust_gsmanddcs_powerlvl(powerlevel1,powerlevel2 : INTEGER) Group : Miscellaneous/ Objective : Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			
2		(TCV_AssCmd.pcmd := Pcmd_19(INT_TO_BIT(powerlevel1,5)))			
3		[TSPC_DCS]			
4		(TCV_AssCmd.pcmd := Pcmd_19(INT_TO_BIT(powerlevel2,5)))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : AssCh_complete(oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU) Group : Miscellaneous/ Objective : To provide a generic test step to Assign a traffic channel. Assign complete expected and verdict is PASS. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		LIDL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)		
2		?TIMEOUT T_dlyAss		(F)	
3		+PostLinkRelEnd(oldch)			
4		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(newch)		
5		L?DL_DatInAssCom	AssCmp(newch, AsgnCmp_02)	(P)	
6		L!MDL_RelRq	MDLRelReq(oldch)		
7		L?DL_EstIn CANCEL T_dlyAss	DLEstInd(oldch)		
8		L?DL_DatInAssfl	AssFI_any_cau(oldch)	(F)	
9		+PostLinkRelEnd(oldch)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : AssCh_failure(ch : LOGICCH; pdu_ass: ASS_CMD_PDU; any : BOOLEAN)

Group : Miscellaneous/

Objective : To provide a generic test step to Assign a traffic channel. Assign failure expected and verdict is PASS.

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqAssCmd START T_dlyAss(4000)	AssCmd(ch,pdu_ass)		
2		[any]			
3		?TIMEOUT T_dlyAss		(F)	
4		+PostLinkRelEnd(ch)			
5		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(ch)		
6		L?DL_DatInAssfl	AssFI_any_cau(ch)	(P)	
7		[NOT any]			
8		?TIMEOUT T_dlyAss		(F)	
9		+PostLinkRelEnd(ch)			
10		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(ch)		
11		L?DL_DatInAssfl	AssFI_02(ch)	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : AssCmdGen(cell : CellID; rate : RATE; slot : SN; tsc : TSC; sch : B_1)

Group : Miscellaneous/

Objective : To generate the ASSIGNMENT COMMAND message.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[rate <> C_Half]			Full rate
2		(TCV_Tchtype := '00001'B)			
3		+ltree_Asgn			
4		[rate = C_Half]			Half rate
5		[sch = '0'B]			
6		(TCV_Tchtype := '00010'B)			
7		+ltree_Asgn			
8		[sch = '1'B]			
9		(TCV_Tchtype := '00011'B)			
10		+ltree_Asgn			
		ltree_Asgn			
11		[cell = C_CellA]			
12		+ltree_AsgnTchA			
13		[cell = C_CellB]			
14		+ltree_AsgnTchB			
		ltree_AsgnTchA			
15		[TSPC_PGSM OR TSPC_EGSM]			
16		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 7, C_arfcn_tchA, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
17		[TSPC_DCS]			
18		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 3, C_arfcn_tchAd, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
		ltree_AsgnTchB			
19		[TSPC_PGSM OR TSPC_EGSM]			
20		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 7, C_arfcn_tchB, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
21		[TSPC_DCS]			
22		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 3, C_arfcn_tchBd, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			

Detailed Comments : The test step makes the assumption that the channel rate is known when the test step is called.

Test Step Dynamic Behaviour					
Test Step Name : Authentication (ch: LOGICCH; cksn: BITSTRING; rand : RAND) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqAuthRq	AuthReq(ch, AuthRequest(cksn, rand))		
2		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
3		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
4		[NOT TCV_Res]		(F)	1)
5		[TCV_Res]		(P)	
Detailed Comments : Authentication fails.					

Test Step Dynamic Behaviour

Test Step Name : CallProcGen(setup : SETUP_MO_PDU; srv : SERVICES)

Group : Miscellaneous/

Objective : To generate a CALL PROCEEDING message which is compatible with input value 'setup'..

Default : OtherEvents

Comments : The generated CALL PROCEEDING is in TCV_CallProc. This test step can handle the following dual mode services: the first BCAP is speech or the second BCAP is speech

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_CallProc := CallProced_03, TCV_CallProc.ti := TCV_TI)			
2		[(srv = C_AltSpchData) OR (srv = C_SpchData) OR (srv = C_AltSpchFax)]			dual service
3		[setup.bcap1.itc = C_Speech]			1st BCAP is speech
4		(TCV_ce3 := setup.bcap2.ce)			
5		[(TCV_ce3 <> C_BothT) AND (TCV_ce3 <> C_BothNT)]			1.
6		[(TCV_ce3 = C_BothT) OR (TCV_ce3 = C_BothNT)]			2.
7		(TCV_CallProc.bcap1 := setup.bcap1, TCV_CallProc.bcap1.rchr := '00'B, TCV_CallProc.bcrl := setup.bcrl, TCV_CallProc.bcap2 := setup.bcap2, TCV_CallProc.bcap2.ce := INT_TO_BIT((BIT_TO_INT(setup.bcap2.ce) - 2), 2), TCV_CallProc.bcap2.nirr := C_nirr_nomeaning)			
8		[NOT (setup.bcap1.itc = C_Speech)]			
9		(TCV_ce1 := setup.bcap1.ce)			
10		[(TCV_ce1 <> C_BothT) AND (TCV_ce1 <> C_BothNT)]			3.
11		[(TCV_ce1 = C_BothT) OR (TCV_ce1 = C_BothNT)]			4.
12		(TCV_CallProc.bcap1 := setup.bcap1, TCV_CallProc.bcap1.ce := INT_TO_BIT((BIT_TO_INT(setup.bcap1.ce) - 2), 2), TCV_CallProc.bcap1.nirr := C_nirr_nomeaning, TCV_CallProc.bcrl := setup.bcrl, TCV_CallProc.bcap2 := setup.bcap2, TCV_CallProc.bcap2.rchr := '11'B)			
13		[(srv <> C_AltSpchData) AND (srv <> C_SpchData) AND (srv <> C_AltSpchFax)]			
14		[srv = C_EmgCall]			8.
15		[srv <> C_EmgCall]			
16		[setup.bcap1.itc = C_Speech]			5.
17		[setup.bcap1.itc <> C_Speech]			
18		(TCV_ce1 := setup.bcap1.ce)			
19		[(TCV_ce1 = C_BothT) OR (TCV_ce1 = C_BothNT)]			6.
20		(TCV_CallProc.bcap1 := setup.bcap1, TCV_CallProc.bcap1.ce := INT_TO_BIT((BIT_TO_INT(setup.bcap1.ce) - 2), 2), TCV_CallProc.bcap1.nirr := C_nirr_nomeaning)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		[(TCV_ce1 <> C_BothT) AND (TCV_ce1 <> C_BothNT)]			7.
Detailed Comments : 1. BCAP1 is speech and BCAP2 does not require negotiation, the CallProc will contain no BCAP's 2. BCAP1 is speech and BCAP2 requires negotiation 3. BCAP2 is speech and BCAP1 does not require negotiation, the CallProc will contain no BCAP's 4. BCAP2 is speech and BCAP1 requires negotiation 5. BCAP2 does not exist and BCAP1 is speech, the CallProc will contain no BCAP's 6. BCAP2 does not exist and BCAP1 requires negotiation 7. BCAP2 does not exist and BCAP1 does not require negotiation 8. Emergency call, the CallProc will contain no BCAP					

Test Step Dynamic Behaviour					
Test Step Name : CCAssignTCH(slot : SN; tsc : TSC) Group : Miscellaneous/ Objective : Send assign command TCH/H or TCH/F depending on TCV_ChRate and wait for establishment indication. This is used in CC testing. Default : OtherEvents Comments : The calling tree prepare three variables for the step: TCV_ChRate for the type of the channel, TCV_chMod with th channel mode IE for the channel, TCV_chTch contains the identifier fot the traffic channel and TCV_chtype the channel type.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod),			
2		TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
3		+ltree_Asgn			1.
4		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			2. 3.
5		ltree_Asgn			
6		[TSPC_PGSM OR TSPC_EGSM]			
7		(TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, slot, tsc, 7, C_arfcn_tchA, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
8		[TSPC_DCS]			
9		(TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, slot, tsc, 3, C_arfcn_tchAd, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
Detailed Comments : 1. To assign the suitable traffic channel to the MS. 2. ASSIGN COMMAND with channel mode, channel description and power command. The channel mode and type (TCH/H or TCH/F) and power command are supplied as parameter. 3. Different power command for DCS.					

Test Step Dynamic Behaviour

Test Step Name : CCCH_group_Paging_group(ccd: CCD; imsi: HEXSTRING)

Group : Miscellaneous/

Objective : To calculate the CCCH group and the Paging group from the IMSI and the Control Channel Descriptor according to GSM 05.02, subclause 6.5.2.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ccd.ccch_con = '000'B]			
2		(TCV_bs_cc_chans := 1)			
3		+localtree1			
4		[ccd.ccch_con = '001'B]			
5		(TCV_bs_cc_chans := 1)			
6		+localtree1			
7		[ccd.ccch_con = '010'B]			
8		(TCV_bs_cc_chans := 2)			
9		+localtree1			
10		[ccd.ccch_con = '100'B]			
11		(TCV_bs_cc_chans := 3)			
12		+localtree1			
13		[ccd.ccch_con = '110'B]			
14		(TCV_bs_cc_chans := 4)			
15		+localtree1			
16		[ccd.ccch_con = '??1'B]		I	
		localtree1			
17		(TCV_bs_ag_blks_res := BIT_TO_INT(ccd.babr), TCV_bs_pa_mfrms := (2 + BIT_TO_INT(ccd.bpm)))			
18		[ccd.ccch_con = '001'B]			i.e. combine d
19		[(TCV_bs_ag_blks_res < 0) OR (TCV_bs_ag_blks_res > 2)]		I	Stop! A tester error.
20		[(TCV_bs_ag_blks_res >= 0) AND (TCV_bs_ag_blks_res <= 2)]			
21		(TCV_tmp := 3 - TCV_bs_ag_blks_res)			
22		+localtree2			
23		[ccd.ccch_con <> '001'B]			i.e. not combine d
24		[(TCV_bs_ag_blks_res < 0) OR (TCV_bs_ag_blks_res > 7)]		I	Stop! A tester error.
25		[(TCV_bs_ag_blks_res >= 0) AND (TCV_bs_ag_blks_res <= 7)]			
26		(TCV_tmp := 9 - TCV_bs_ag_blks_res)			
27		+localtree2			ini. TCV Pgg
		localtree2			
28		(TCV_tmp := TCV_tmp * TCV_bs_pa_mfrms)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29		(TCV_Pgg := INT_TO_BIT((((OC_BCDtoInt(imsi, 3)) MOD (TCV_bs_cc_chans * TCV_tmp)) MOD TCV_tmp), 8), TCV_Ccchg := (((OC_BCDtoInt(imsi, 3)) MOD (TCV_bs_cc_chans * TCV_tmp)) / TCV_tmp))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CCEstablishMT_SDCCH4(ta : TA; sub : B_2; cksn : B_3) Group : Miscellaneous/ Objective : Establish a MT SDCCH/4 connection. This is used in CC testing Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCPage			
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans. 1.
3		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4		L?DL_EstInPgRes	PagingRes(PagingRes_03 (cksn))		
5		ACTIVATE(OtherEvents)			Restore Normal default
Detailed Comments : 1. To assign a SDCCH/4.					

Test Step Dynamic Behaviour					
Test Step Name : CCEstablishMT_SDCCH4_eMLPP (ta : TA; sub : B_2; cksn : B_3; priority:B_3)					
Group : Miscellaneous/					
Objective : Establish a MT SDCCH/4 connection. This is used in CC testing					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCPage_eMLPP (priority)			To match ChReq retrans. 1.

Test Step Dynamic Behaviour					
Test Step Name : CCMModifyTCH(slot :SN; tsc : TSC)					
Group : Miscellaneous/					
Objective : Send channel mode modify command and wait for successful completion. This is used for CC testing.					
Default : OtherEvents					
Comments : The calling tree shall prepare two variables for the step: TCV_chtype for the type of the channel, TCV_ChMod with the channel mode IE for the channel.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod))			
2		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_07(TCV_chtype, TCV_ChMod.mode, slot, tsc, TCV_tch_arfcn))		
3		L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_08(TCV_chtype, TCV_ChMod.mode, slot, tsc, TCV_tch_arfcn))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CCPage Group : Miscellaneous/ Objective : Send paging request and wait for channel request. This is usde in CC testing. Default : OtherEvents Comments : TCV_Rr contains the request reference and TCV_Fn contains the frame number of the channel request.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_01)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CCPage_eMLPP (priority : B_3) Group : Miscellaneous/ Objective : Send paging request and wait for channel request. This is usde in CC testing. Default : OtherEvents Comments : TCV_Rr contains the request reference and TCV_Fn contains the frame number of the channel request.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_eMLPP (priority))		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_01)		
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : CCstatuschk_02(ch: LOGICCH; st : CCSTATE; ti_orig, ti_dest: TI)
Group : Miscellaneous/
Objective : To check whether the MS under test is in the CC state 'st' and cause = #30.
Default : OtherEvents
Comments : if the cause value is #30 and the CC state value is 'st', the preliminary verdict is pass.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqCcstEnq	CCStESnd(ch, CCStatusEq_01(ti_orig))		
2		L?DL_DatInCcst (TCV_Cau := DL_DatInCcst.msg.cau, TCV_CCSt := DL_DatInCcst.msg.cst)	CCStRcv(ch, CCStatus_01(ti_dest))		
3		[(TCV_Cau.cau_class = '001'B) AND (TCV_Cau.cau_va = '1110'B)]			
4		[TCV_CCSt.csv = INT_TO_BIT(st, 6)]			1.
5		[TCV_CCSt.csv <> INT_TO_BIT(st, 6)]		(I)	2.
6		+PostLinkRelEnd(ch)			
7		[(TCV_Cau.cau_class <> '001'B) OR (TCV_Cau.cau_va <> '1110'B)]		(I)	3.
8		+PostLinkRelEnd(ch)			

Detailed Comments : 1. Now in CC state 'st' and cause = #30.
2. Not in CC state 'st'.
3. Cause is not #30.

Test Step Dynamic Behaviour

Test Step Name : Check_HoaccPara(tadv: INTEGER; pwrlvl : B_5; hoapara : HOACC_PARA)

Group : Miscellaneous/

Objective : To check whether the access power level and the timing advance in 'hoapara' are within the tolerance.

Default : OtherEvents

Comments : GSM 05.05, 4.1.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+l_pwlchk			1.
2		+l_tachk			2.
		l_pwlchk			
3		+l_dbm			3.
4		+l_mapping			4.
5		+l_preset			5.
6		(TCV_counter_k := TCV_counter_k – TCV_kcnt * 2)			Output power in dBm
7		[(TCV_SMTypeM <= TCV_counter_k + TCV_counter_c) AND (TCV_SMTypeN >= TCV_counter_k – TCV_counter_c)]		(P)	
8		[(TCV_SMTypeM > TCV_counter_k + TCV_counter_c) OR (TCV_SMTypeN < TCV_counter_k – TCV_counter_c)]		(F)	
		l_dbm			
9		(TCV_SMTypeM := OC_OctToInt(hoapara.max_mspwr), TCV_SMTypeN := OC_OctToInt(hoapara.min_mspwr))			Store input values, max positive 63
10		[TCV_SMTypeN > TCV_SMTypeM]		(I)	
11		[TCV_SMTypeM > 63]			
12		(TCV_SMTypeM := TCV_SMTypeM – 256, TCV_SMTypeN := TCV_SMTypeN – 256)			max_ms pwr <0
13		[TCV_SMTypeN > 63]			
14		(TCV_SMTypeN := TCV_SMTypeN – 256)			min_msp wr <0
15		[C_Yes]			
		l_mapping			
16		(TCV_kcnt := BIT_TO_INT(pwrlvl))			
17		[TSPC_PGSM OR TSPC_EGSM]			2 to 19
18		[TCV_kcnt < 2]			
19		(TCV_kcnt := 2)			
20		[TCV_kcnt > 19]			
21		(TCV_kcnt := 19)			
22		[C_Yes]			
23		[TSPC_DCS]			–3 to 15
24		[(TCV_kcnt > 28) AND (TCV_kcnt < 32)]			
25		(TCV_kcnt := TCV_kcnt – 32)			
26		[TCV_kcnt > 15]			
27		(TCV_kcnt := 15)			
28		[C_Yes]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29		I_preset			
30		[TSPC_PGSM OR TSPC_EGSM]			Offset
31		(TCV_counter_k := 43)			
32		[TCV_kcnt=2]			-2 to +2 dBm
33		(TCV_counter_c := 2)			
34		[(TCV_kcnt>2) AND (TCV_kcnt<16)]			-3 to +3 dBm
35		(TCV_counter_c := 3)			
36		[TCV_kcnt > 15]			-5 to +5 dBm
37		(TCV_counter_c := 5)			
38		[TSPC_DCS]			Offset
39		(TCV_counter_k := 30)			
40		[TCV_kcnt=-3]			-2 to +2 dBm
41		(TCV_counter_c := 2)			
42		[(TCV_kcnt>-3) AND (TCV_kcnt<9)]			-3 to +3 dBm
43		(TCV_counter_c := 3)			
44		[(TCV_kcnt>8) AND (TCV_kcnt<14)]			-4 to +4 dBm
45		(TCV_counter_c := 4)			
46		[(TCV_kcnt>13) AND (TCV_kcnt<16)]			-5 to +5 dBm
47		(TCV_counter_c := 5)			
48		I_tachk			
49		+I_tcvta			6.
50		[(TCV_Fk <= tadv + 1) AND (TCV_S >= tadv - 1)]		(P)	Within -1 to +1 bit
51		[(TCV_Fk > tadv + 1) OR (TCV_S < tadv - 1)]		(F)	
52		I_tcvta			
53		(TCV_Fk := BIT_TO_INT(hoapara.max_msta), TCV_S := BIT_TO_INT(hoapara.min_msta))			
54		[TCV_S > TCV_Fk]		(I)	
55		[TCV_Fk > 127]			
56		(TCV_Fk := TCV_Fk - 256, TCV_S := TCV_S - 256)			max_msta < 0
57		[TCV_S > 127]			
58		(TCV_S := TCV_S - 256)			min_msta < 0
59		[C_Yes]			
Detailed Comments : 1. Power level check. 2. Timing advance check. 3. Convert an octet in modulo 256 into integer in dBm. 4. Mapping the power control levels of 0 – 31 into the range between 2 to 19 for GSM and –3 to 15 for DCS. 5. Preset the tolerance under normal condition. 6. Convert an octet in modulo 256 into integer.					

Test Step Dynamic Behaviour					
Test Step Name : Check_Idle_Asci					
Group : Miscellaneous/					
Objective : To check that IUT is in IDLE state					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		LIDL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)	(P)	
2		L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq(ChRequest_01)		
3		LIDL_UdatRqImmaseRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rqr.ra, TCV_Rqr.fn))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Check_Result Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_052 6	[NOT TCV_Res]		(F)	
2	L_052 7	[TCV_Res]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Check_NoResult Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[NOT TCV_Res]		(P)	
2		[TCV_Res]		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Check_Time (maxtime: INTEGER; fn, fn1 : FN) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FnArith(fn, fn1)			
2	L_085 6	[TCV_Time <= maxtime]		(P)	
3	L_085 7	[TCV_Time > maxtime]		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CheckNotifNCH (ch : LOGICCH; callref :B_27; arfcn : INTEGER) Group : Miscellaneous/ Objective : Initiate a call using NOTIFICATION/NCH. Check that the call can be completely established. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ Send_NotifNch (C_No, NotifNCH_ChDescr (callref, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlitDef, TSPX_TscDef, arfcn)) , callref, ch)			
2		(TCV_Null := OO_Join_AsciCall (callref, TCV_VGCS_VBS_Type))			
3		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , ch))			
4		+Check_Result			
5		+ PostMainLinkRel_Asci (ch, C_CallMT, C_GroupReceive)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CheckStatus_Asci (ch:LOGICCH; ti:TI; state : B_4)					
Group : Miscellaneous/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqGetStatus	GetStatus (ch, GetStatus_Def ((P)	
2		L?DL_DatInStatus	TCV_VGCS_VBS_Type, ti)) Status (ch, Status_Def (
TCV_VGCS_VBS_Type, TI_10(ti.ti_v), state))					
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CheckStatus_SA_Asci (ch:LOGICCH; asci_type :B_1; state : B_4; da, ua, comm, oi : B_1)					
Group : Miscellaneous/					
Objective :					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqGetStatus	GetStatus (ch, GetStatus_Def (asci_type, TCV_TI))	(P)	
2		L?DL_DatInStatus	Status (ch, Status_SA (TCV_TI0, asci_type, state, da, ua, comm, oi))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ChkMsrmntRpt(index1, index2 : INTEGER) Group : Miscellaneous/ Objective : Check whether the mesurment report is correct and assign the verdict accordingly. Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			
2		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, index1))			
3		[NOT TCV_Res]		(F)	
4		[TCV_Res]		(P)	
5		[TSPC_DCS]			
6		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, index2))			
7		[NOT TCV_Res]		(F)	
8		[TCV_Res]		(P)	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Cipherring_on(ch: LOGICCH) Group : Miscellaneous/ Objective : Send cipher command and wait for successful completion Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_CphMdChg(ch, CphMod_01, TCV_CphKey))			
2		L!DL_DatRqCphmCmd	CphCmd(ch, CphModeCmd_01)		
3		L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Enter_Asci_GroupReceiveMode (ch:LOGICCH; callRef : B_27 ; arfcn : INTEGER)

Group : Miscellaneous/

Objective : To bring MS to VGCS/VBS group receive mode.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Notif1 := NotifNCH_ChDescr (callRef, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSltDef, TSPX_TscDef, arfcn)))			1
2		+ Send_NotifNch (C_Yes, TCV_Notif1 , callRef, ch)			
3		(TCV_Null := OO_Join_AsciCall (callRef , TCV_VGCS_VBS_Type))			2
4		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , ch))			3
5		+Check_Result			

Detailed Comments :

1. NOTIFICATION/NCH with the call reference given as parameter and with a group channel desription uncluded.
2. MMI action to join the VGCS/VBS call
3. check that channel in downlink is trough connected and there is no uplink transmission for 10s.

Test Step Dynamic Behaviour

Test Step Name : Enter_Asci_GroupTransmitMode (serv : INTEGER; ch:LOGICCH; callRef : B_27; arfcn : INTEGER; Notif : NT_NCH_PDU)

Group : Miscellaneous/

Objective : To bring IUT to the group transmit mode state.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(serv = C_asciService_vgcs) OR ((TSPC_VGCS_Talking = TRUE) AND (serv = C_asciService_default))]			
2		(TCV_crAsci := callRef, TCV_CallDirection := C_CallMT)			
3		+ Send_NotifNch (C_Yes, Notif , TCV_crAsci , TCV_chTch)			
4		(TCV_Null := OO_Join_AsciCall (TCV_crAsci, C_VGCSType))			
5		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		
6		(TCV_Null := OO_VGCS_RequestUplinkAccess (TCV_crAsci))			
7		L ? DL_RacInUpAcc (TCV_Rr := DL_RacInUpAcc. msg.ecau_rrf, TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
8		L ? DL_RacInUpAcc	UpAccess (UplinkAccess_Def)		
9		L ! DL_UDatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch)		Broadcasted on the main DCCH
10		L ! DL_UDatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch , VGCS_UplinkGrant_01 (TCV_Rr, TCV_Fn))		
11		L ? DL_EstInTkInd	TalkerIndication (TalkerInd_01, TCV_chTch)		
12		[(serv = C_asciService_vbs) OR ((TSPC_VBS_Originating = TRUE) AND (serv = C_asciService_default))]			
13		(TCV_Null := OO_InitCall_Asci (C_VBSType))			
14		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn , TCV_CallDirection := C_CallMO)	ChReq (ChRequest_02)		
15		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
16		L!DL_UDatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		L?DL_EstInCmsRq	CMSerReq (CMSERVICEReq_01)		To match ChReq retrans.
18		ACTIVATE(OtherEventsFail_01)			
19		L!DL_DatRqCmsAcp	CMSerAcp (TCV_ch, CMSERVICEAcp_01)		
20		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B , TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_VBS_01)		
21		+ CCMODIFYTCH (TSPX_TmSltDef , TSPX_TscDef)			
22		L!DL_DatRqConn_Asci	ConnSnd_Asci (ch, ConnectAsci_Vbs_01 (TCV_TI , TCV_crAsci))		
23		[C_Yes]		I	
Detailed Comments : 1. NOTIFICATION with a call reference active in the MS and a group channel description.					

Test Step Dynamic Behaviour

Test Step Name : Enter_Asci_GTM_IR_MO (ch:LOGICCH; arfcn : INTEGER)
Group : Miscellaneous/
Objective : To bring IUT to the group transmit mode state with Identity Request.
Default : OtherEventsFail_01
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)		
3		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
4		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		
5		L?DL_EstInCmsRq	CMSerReq (CMSserviceReq_01)		
6		ACTIVATE (OtherEventsFail_01)			Restore Normal default
7		LIDL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
8		L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)	IDRes(IDResponse_01)		
9		LIDL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		
10		L?DL_DatInCphmCom	CphCom(CphModeCmp_01)		
11		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))	(P)	
12		+ CCMModifyTCH (TSPX_TmSltDef , TSPX_TscDef)			
13		L!DL_DatRqConn_Asci	ConnSnd_Asci (ch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_MS))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FnArith(fn, fn1 : FN)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		$\begin{aligned} \text{TCV_Cnt1} &:= (51 * ((\text{BIT_TO_INT}(\text{fn.t3}) - \\ &\text{BIT_TO_INT}(\text{fn.t2}) + 26) \text{ MOD } 26)) + \\ &\text{BIT_TO_INT}(\text{fn.t3}) + (1326 * \text{BIT_TO_INT}(\text{fn.t1_})), \\ \text{TCV_Cnt2} &:= (51 * ((\text{BIT_TO_INT}(\text{fn1.t3}) - \\ &\text{BIT_TO_INT}(\text{fn1.t2}) + 26) \text{ MOD } 26)) + \\ &\text{BIT_TO_INT}(\text{fn1.t3}) + (1326 * \text{BIT_TO_INT}(\text{fn1.t1_})), \\ \text{TCV_K} &:= ((\text{TCV_Cnt2} - \text{TCV_Cnt1} + 42432) \text{ MOD } 42432), \\ \text{TCV_Time} &:= \text{TCV_K} * 120 / 26) \end{aligned}$			<p>GSM 04.08 section 10.5.2.3 0. TCV_K stores the frame number difference. TCV_Time stores the time difference in ms.</p>

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ImsiDetach (par_mi:MI; ta : TA; sim_rmvd : BOOLEAN)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			SIM needs to be removed .
2		(TCV_Null :=OO_SIMRmv())			
3		+ltree_imsidetach			
4		[TSPC_SwitchOnOff]			
5		(TCV_Null := OO_SwitchOff())			
6		+ltree_imsidetach			
7		[TSPC_DetachOnPwrDn]			
8		(TCV_Null := OO_PowerDown())			Remove power source
9		+ltree_imsidetach			
10		[C_Yes]			
11		(TCV_Null := OO_PowerDown())			Remove power source
12		ltree_imsidetach L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
13		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
14		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
15		L?DL_EstInImsidIn	ImsiDet(ImsiDetach_30(par_mi))	(P)	
16		ACTIVATE(OtherEventsFail)			Restore normal default
17		+ChanRel(TCV_ch)			

Detailed Comments : If IMSI detach procedure has been executed, the channel will be released. If ATT=0 no detach has been executed, the channel is still connected.

Test Step Dynamic Behaviour

Test Step Name : UplinkAccess_Vgcs (ch : LOGICCH)

Group : Miscellaneous/

Objective : To request the IUT to join access uplink.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L ? DL_RacInUpAcc (TCV_Rr := DL_RacInUpAcc. msg.ecau_rrf , TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
2		L ? DL_RacInUpAcc (TCV_Rr1 := DL_RacInUpAcc. msg.ecau_rrf)	UpAccess (UplinkAccess_Def)		
3		L ! DL_UDatRqUpBs	UplinkBusy (UplinkBusy_01, ch)		Broadcasted on the main DCCH
4		L ! DL_UDatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch1 , VGCS_UplinkGrant_01 (TCV_Rr, TCV_Fn))		
5		L ? DL_EstInTkInd	TalkerIndication (TalkerInd_01, ch)		

Detailed Comments : 1. MMI action to join the VGCS call

Test Step Dynamic Behaviour

Test Step Name : JoinCall_Asci (ch : LOGICCH ; par_arfcn : INTEGER ; CallRef : B_27)

Group : Miscellaneous/

Objective : To request the IUT to accepts a VGCS/VBS incoming call and to bring IUT to the active call state.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmss	ImmAss (C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype,TCV_slot, TCV_tsc,TimingAdv(30), TCV_chdescr_arfcn, C_normal_paging))		Use SDCCH /4
4		L?DL_EstInNTRsp	DLEstInd_NotifResp (TCV_ch, NotifResponse_01)		
5		ACTIVATE (OtherEventsFail_01)			Restore Normal default
6		L!DL_DatRqChRel START T_release	ChRel (TCV_ch, ChRelease_02 (TCV_Tchtype ,TSPX_TmSltDef, TSPX_TscDef, par_arfcn))		2.
7		L?DL_RelIn CANCEL T_release	DLRelInd_01		
8		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , ch))			3.
9		+Check_Result			
10		?TIMEOUT T_release			
11		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , ch))			3.
12		+Check_Result			

Detailed Comments : 1. MMI action to join the VGCS/VBS call
2. CHANNEL RELEASE message with group channel description
3. check that 'ch' in downlink is through connected and there is no uplink transmission on the channel for 10s.

Test Step Dynamic Behaviour					
Test Step Name : MM_LUP2_Asci_PLMN (newmi:MI; lup_mi:MI; mcc, oldmnc, newmnc, lac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(lup_mi, mcc, oldmnc, lac, locup, cksn, ta)			
2		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newmi, mcc, newmnc, lac))		
3		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	
4		+ ChanRel (TCV_ch)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : MM_LupInit(par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(par_mi, mcc, mnc, lac, locup, cksn))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : MM_LupInit5(locup : B_2; ta : TA) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : MM_LupRej2(par_rej: REJCAU; par_mi:MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta)			
2		L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(par_rej))	(P)	
3		+ChanRel(TCV_ch)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : MM_PwrOrSimOff (sim_rmvd : BOOLEAN) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv)]			SIM needs to be removed .
2		(TCV_Null :=OO_SIMRmv())			
3		[TSPC_SwitchOnOff]			
4		(TCV_Null := OO_SwitchOff())			
5		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv)) AND (NOT TSPC_SwitchOnOff))]			
6		(TCV_Null := OO_PowerDown())			Remove power source
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : MM_PwrOrSimOn (sim_rmvd : BOOLEAN) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv)]			SIM has been removed
2		(TCV_Null := OO_SIMIns())			
3		[TSPC_SwitchOnOff]			
4		(TCV_Null := OO_SwitchOn())			
5		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv)) AND (NOT TSPC_SwitchOnOff))]			
6		(TCV_Null := OO_PowerUp())			Restore power source
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : RR_hocomp1(time_fn_fn1:INTEGER; ta : TA; oldch : LOGICCH)

Group : Miscellaneous/

Objective : To finish the HO-procedure

Default : RcvHdOvAcc, OtherEvents

Comments : used var's: TCV_ch, TCV_Horf, TCV_Cntref

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqPhyInfo	PhyInfo_01(TCV_ch, ta)		1.
2		L?DL_RacInHoacc(TCV_FnBurst := DL_RacInHoacc.fn)	HndOvAccRcv(TCV_ch, HandOverAcc_02(TCV_Horf))		2.
3		L?DL_EstIn	DLEstInd(TCV_ch)		
4		(TCV_Fn1:= OM_ReturnFn(TCV_ch), TCV_HoaccPara := OM_GetHoaccPara(TCV_ch))			
5		L?DL_DatInHoCom(TCV_Fn := DL_DatInHoCom.fn)	HndOvCmpRcv(TCV_ch, HandOverCmp_20)		
6		L!MDL_RelRq	MDLRelReq(oldch)		
7		+Check_Time(time_fn_fn1, TCV_Fn1, TCV_Fn)			3.
8	L_104 3	[(OC_OctToInt(TCV_HoaccPara.num_bursts) >= TCV_Cntref) AND (OC_OctToInt(TCV_HoaccPara.num_bursts) <= (TCV_Cntref+20))]		(P)	4.
9	L_104 4	[C_Yes]		(F)	4.

Detailed Comments : 1. PhyInfo is dequeued from the sending buffer, but held through OM_SendNextOnHO at the lower layers of the tester for sending till having received TCV_Cntref access bursts.
2. Match the 1st access burst. The access bursts except the 1st one are matched by the default test step RcvHdOvAcc.
3. Check HO-time.
4. Check the number of access bursts received with tolerance +3.

Test Step Dynamic Behaviour					
Test Step Name : Send_NotifNch (accepted : BOOLEAN ; notif_pdu: NT_NCH_PDU; call_Ref : B_27 ; ch : LOGICCH)					
Group : Miscellaneous/					
Objective : To send a NOTIFICATION NCH PDU and to check if the notification is accepted or not accepted.					
Default : OtherEventsFail_01					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , notif_pdu)		1.
2		[accepted = C_Yes]			
3		(TCV_Res := OO_CheckNotifInd (call_Ref))			3.
4		+Check_Result			
5		[accepted = C_No]			
6		(TCV_Res := OO_CheckNotifInd (call_Ref))			4.
7		+Check_NoResult			
8		(TCV_Res := OM_NoUplinkTransmission_Asci (ch))			5.
9		+Check_Result			
Detailed Comments : 1. Send notification on NCH. 2. Wait 35 seconds. 3. Check that the MS (IUT) gives an indication containing the notified group call reference. 4. Check that the MS ignores the notification. 5. Check there is no uplink transmission on the channel for 10 seconds.					

Test Step Dynamic Behaviour					
Test Step Name : Send_NotifFacch (accepted:BOOLEAN; ch:LOGICCH; notif_nch_pdu: NT_NCH_PDU; notif_facch_pdu: NT_FACCH_PDU; call_Ref : B_27)					
Group : Miscellaneous/					
Objective : To send NOTIFICATION NCH PDU and to check if the notification is accepted.					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqNtNCH	NotifyNCH (TCV_Nch , notif_nch_pdu)		30 s
2		L!DL_UdatRqNtFACCH	NotifyFACCH (ch, notif_facch_pdu)		
3		+ Wait (C_T_Wait1stChReq)			
4		[accepted = C_Yes]			
5		(TCV_Res := OO_CheckNotifInd (call_Ref))			
6		+Check_Result			
7		[accepted = C_No]			
8		(TCV_Res := OO_CheckNotifInd (call_Ref))			
9		+Check_NoResult			
10		(TCV_Res := OM_NoUplinkTransmission_Asci (ch))			
11		+Check_Result			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : SendSeqNo_chk					
Group : Miscellaneous/					
Objective : To check whether the sending sequence number is the same					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_091 5	[TCV_Mt1 = TCV_Mt]		(P)	same N(SD)
2	L_091 6	[TCV_Mt1 <> TCV_Mt]		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SelectPagingCh(cell : CellID)

Group : Miscellaneous/

Objective : To assign a paging channel and an access grant channel to the variable TCV_PgCh and TCV_agch respectively, depending on the parameter 'cell' (cell ID)

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[cell = C_CellA]			
2		[TCV_Ccchg=0]			
3		(TCV_PgCh := C_PCH_A_1, TCV_agch := C_AGCH_A_1, TCV_RaCh := C_RACH_A_1)			
4		[TCV_Ccchg=1]			
5		(TCV_PgCh := C_PCH_A_2, TCV_agch := C_AGCH_A_2, TCV_RaCh := C_RACH_A_2)			
6		[TCV_Ccchg=2]			
7		(TCV_PgCh := C_PCH_A_3, TCV_agch := C_AGCH_A_3, TCV_RaCh := C_RACH_A_3)			
8		[TCV_Ccchg=3]			
9		(TCV_PgCh := C_PCH_A_4, TCV_agch := C_AGCH_A_4, TCV_RaCh := C_RACH_A_4)			
10		[cell = C_CellB]			
11		[TCV_Ccchg=0]			
12		(TCV_PgCh := C_PCH_B_1, TCV_agch := C_AGCH_B_1, TCV_RaCh := C_RACH_B_1)			
13		[TCV_Ccchg=1]			
14		(TCV_PgCh := C_PCH_B_2, TCV_agch := C_AGCH_B_2, TCV_RaCh := C_RACH_B_2)			
15		[TCV_Ccchg=2]			
16		(TCV_PgCh := C_PCH_B_3, TCV_agch := C_AGCH_B_3, TCV_RaCh := C_RACH_B_3)			
17		[TCV_Ccchg=3]			
18		(TCV_PgCh := C_PCH_B_4, TCV_agch := C_AGCH_B_4, TCV_RaCh := C_RACH_B_4)			
19		[cell = C_CellC]			
20		[TCV_Ccchg=0]			
21		(TCV_PgCh := C_PCH_C_1, TCV_agch := C_AGCH_C_1, TCV_RaCh := C_RACH_C_1)			
22		[TCV_Ccchg=1]			
23		(TCV_PgCh := C_PCH_C_2, TCV_agch := C_AGCH_C_2, TCV_RaCh := C_RACH_C_2)			
24		[TCV_Ccchg=2]			
25		(TCV_PgCh := C_PCH_C_3, TCV_agch := C_AGCH_C_3, TCV_RaCh := C_RACH_C_3)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		[TCV_Ccchg=3]			
27		(TCV_PgCh := C_PCH_C_4, TCV_agch := C_AGCH_C_4, TCV_RaCh := C_RACH_C_4)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Switchcell (old_cell, activ_cell : CellID; lac : OCTETSTRING; subch, cksn, rand : BITSTRING; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)					
Group : Miscellaneous/					
Objective : To force the MS to reselect cells					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, ccd, imsi)			
2		(TCV_Null := OM_ChangeRFOf2Cells(activ_cell, C_E_default, old_cell, C_E_otsuitable))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : Switchcell_Asci (old_cell, activ_cell : CellID; lac : OCTETSTRING; subch, cksn, rand : BITSTRING; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING; cch_con : B_3; nbr_bl_res:B_3; nbr_fb, bl, nbr_bl : INTEGER)					
Group : Miscellaneous/					
Objective : To force the MS to reselect cells					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+Varinit_fix (activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, ccd, imsi)			
2		(TCV_Null := OM_ChangeRFOf2Cells(activ_cell, C_E_default, old_cell, C_E_otsuitable))			
3		+ Varlnit_NCH (activ_cell, cch_con, nbr_bl_res, nbr_fb, bl, nbr_bl)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SvcSupportedChk(svc : IA5String)

Group : Miscellaneous/

Objective : To check whether the Basic Service svc is supported against PICS answers.

Default : OtherEvents

Comments : In PICS, if the svc is declared supported, the test case variable TCV_supported is set to TRUE, otherwise FALSE.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_supported := C_No)			
2		[(svc = C_Telephony) AND TSPC_Serv_TS11]			TS11
3		(TCV_supported := C_Yes)			
4		[(svc = C_EmgCall) AND TSPC_Serv_TS12]			TS12
5		(TCV_supported := C_Yes)			
6		[(svc = C_AltSpchFax) AND TSPC_Serv_TS61]			TS61
7		(TCV_supported := C_Yes)			
8		[(svc = C_AutoFax) AND TSPC_Serv_TS62]			TS62
9		(TCV_supported := C_Yes)			
10		[(svc = C_Async300) AND TSPC_Serv_BS21]			BS21
11		(TCV_supported := C_Yes)			
12		[(svc = C_Async1200) AND TSPC_Serv_BS22]			BS22
13		(TCV_supported := C_Yes)			
14		[(svc = C_Async120075) AND TSPC_Serv_BS23]			BS23
15		(TCV_supported := C_Yes)			
16		[(svc = C_Async2400) AND TSPC_Serv_BS24]			BS24
17		(TCV_supported := C_Yes)			
18		[(svc = C_Async4800) AND TSPC_Serv_BS25]			BS25
19		(TCV_supported := C_Yes)			
20		[(svc = C_Async9600) AND TSPC_Serv_BS26]			BS26
21		(TCV_supported := C_Yes)			
22		[(svc = C_Sync1200) AND TSPC_Serv_BS31]			BS31
23		(TCV_supported := C_Yes)			
24		[(svc = C_Sync2400) AND TSPC_Serv_BS32]			BS32
25		(TCV_supported := C_Yes)			
26		[(svc = C_Sync4800) AND TSPC_Serv_BS33]			BS33
27		(TCV_supported := C_Yes)			
28		[(svc = C_Sync9600) AND TSPC_Serv_BS34]			BS34
29		(TCV_supported := C_Yes)			
30		[(svc = C_PAD300) AND TSPC_Serv_BS41]			BS41
31		(TCV_supported := C_Yes)			
32		[(svc = C_PAD1200) AND TSPC_Serv_BS42]			BS42
33		(TCV_supported := C_Yes)			
34		[(svc = C_PAD120075) AND TSPC_Serv_BS43]			BS43
35		(TCV_supported := C_Yes)			
36		[(svc = C_PAD2400) AND TSPC_Serv_BS44]			BS44
37		(TCV_supported := C_Yes)			
38		[(svc = C_PAD4800) AND TSPC_Serv_BS45]			BS45
39		(TCV_supported := C_Yes)			
40		[(svc = C_PAD9600) AND TSPC_Serv_BS46]			BS46
41		(TCV_supported := C_Yes)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
42		[(svc = C_Packet2400) AND TSPC_Serv_BS51]			BS51
43		(TCV_supported := C_Yes)			
44		[(svc = C_Packet4800) AND TSPC_Serv_BS52]			BS52
45		(TCV_supported := C_Yes)			
46		[(svc = C_Packet9600) AND TSPC_Serv_BS53]			BS53
47		(TCV_supported := C_Yes)			
48		[(svc = C_AltSpchData) AND TSPC_Serv_BS61]			BS61
49		(TCV_supported := C_Yes)			
50		[(svc = C_SpchData) AND TSPC_Serv_BS81]			BS81
51		(TCV_supported := C_Yes)			
52		[C_Yes]		I	1.
Detailed Comments : 1. svc mismatches any defined Basic Services, inclusive.					

Test Step Dynamic Behaviour					
Test Step Name : Varinit_fix(activ_cell : CellID; lac : OCTETSTRING; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)					
Group : Miscellaneous/					
Objective :					
Default : OtherEventsFail					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_cellid := activ_cell, TCV_ch := OC_SubchOfSdcch4(subch, activ_cell), TCV_sacch := OC_SubchOfSacch4(subch, activ_cell), TCV_ia_ts := '000'B, TCV_lac := lac, TCV_cksn := cksn, TCV_CphKey := OC_CphKeyGen (TSPX_Ki, rand)			
2		+ CCCH_group_Paging_group (ccd, imsi)			
3		+ SelectPagingCh (activ_cell)			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_chdescr_arfcn:= arfcngsm)			
6		[TSPC_DCS]			
7		(TCV_chdescr_arfcn:= arfcndcs)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : VarlNit_NCH (activ_cell : CellID; cch_con : B_3; nbr_bl_res:B_3; nbr_fb, bl, nbr_bl : INTEGER) Group : Miscellaneous/ Objective : Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[nbr_bl_res = '000'B]			
2		[nbr_bl_res <> '000'B]			
3		[cch_con = C_cch_1Comb]			
4		[activ_cell = C_CellA]			
5		[nbr_bl_res = '001'B]			
6		[bl = 0]			
7		(TCV_Nch := C_NCH_A_0, TCV_Nch_Pos := '00000'B)			
8		[C_Yes]		I	1
9		[nbr_bl_res = '010'B]			
10		[bl = 0]			
11		(TCV_Nch := C_NCH_A_0, TCV_Nch_Pos := '00000'B)			
12		[bl = 1]			
13		(TCV_Nch := C_NCH_A_1, TCV_Nch_Pos := '00001'B)			
14		[C_Yes]		I	1
15		[nbr_bl_res = '011'B]			
16		[bl = 0]			
17		(TCV_Nch := C_NCH_A_0, TCV_Nch_Pos := '00000'B)			
18		[bl = 1]			
19		(TCV_Nch := C_NCH_A_1, TCV_Nch_Pos := '00001'B)			
20		[bl = 2]			
21		(TCV_Nch := C_NCH_A_2, TCV_Nch_Pos := '00010'B)			
22		[C_Yes]		I	1
23		[C_Yes]		I	1
24		[activ_cell = C_CellB]			
25		[nbr_bl_res = '001'B]			
26		(TCV_Nch := C_NCH_B_0, TCV_Nch_Pos := '00000'B)			
27		[nbr_bl_res = '010'B]			
28		[bl = 0]			
29		(TCV_Nch := C_NCH_B_0, TCV_Nch_Pos := '00000'B)			
30		[bl = 1]			
31		(TCV_Nch := C_NCH_B_1, TCV_Nch_Pos := '00001'B)			
32		[C_Yes]		I	1
33		[nbr_bl_res = '011'B]			
34		[bl = 0]			
35		(TCV_Nch := C_NCH_B_0, TCV_Nch_Pos := '00000'B)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		[bl = 1]			
37		(TCV_Nch := C_NCH_B_1, TCV_Nch_Pos := '00001'B)			
38		[bl = 2]			
39		(TCV_Nch := C_NCH_B_2, TCV_Nch_Pos := '00010'B)			
40		[C_Yes]		I	1
41		[C_Yes]		I	2
42		[C_Yes]		I	3
43		[cch_con <> C_cch_1Comb]			
44		+LT_CheckValidParam			
45		+LT_AssignNchPosition			
46		[activ_cell = C_CellA]			
47		[bl = 0]			
48		(TCV_Nch := C_NCH_A_0)			
49		[bl = 1]			
50		(TCV_Nch := C_NCH_A_1)			
51		[bl = 2]			
52		(TCV_Nch := C_NCH_A_2)			
53		[bl = 3]			
54		(TCV_Nch := C_NCH_A_3)			
55		[bl = 4]			
56		(TCV_Nch := C_NCH_A_4)			
57		[bl = 5]			
58		(TCV_Nch := C_NCH_A_5)			
59		[bl = 6]			
60		(TCV_Nch := C_NCH_A_6)			
61		[C_Yes]		I	1
62		[activ_cell = C_CellB]			
63		[bl = 0]			
64		(TCV_Nch := C_NCH_B_0)			
65		[bl = 1]			
66		(TCV_Nch := C_NCH_B_1)			
67		[bl = 2]			
68		(TCV_Nch := C_NCH_B_2)			
69		[bl = 3]			
70		(TCV_Nch := C_NCH_B_3)			
71		[bl = 4]			
72		(TCV_Nch := C_NCH_B_4)			
73		[bl = 5]			
74		(TCV_Nch := C_NCH_B_5)			
75		[bl = 6]			
76		(TCV_Nch := C_NCH_B_6)			
77		[C_Yes]		I	1
78		[C_Yes]		I	3
		LT_CheckValidParam			
79		[nbr_bl > BIT_TO_INT (nbr_bl_res)]		I	

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
80		[nbr_bl <= BIT_TO_INT (nbr_bl_res)]			
81		[nbr_fb > bl]		I	
82		[nbr_fb <= bl]			
83		[BIT_TO_INT (nbr_bl_res) < nbr_fb]		I	
84		[BIT_TO_INT (nbr_bl_res) >= nbr_fb]			
		LT_AssignNchPosition			
85		[nbr_bl = 1]			
86		[nbr_fb = 0]			
87		(TCV_Nch_Pos := '00000'B)			
88		[nbr_fb = 1]			
89		(TCV_Nch_Pos := '00001'B)			
90		[nbr_fb = 2]			
91		(TCV_Nch_Pos := '00010'B)			
92		[nbr_fb = 3]			
93		(TCV_Nch_Pos := '00011'B)			
94		[nbr_fb = 4]			
95		(TCV_Nch_Pos := '00100'B)			
96		[nbr_fb = 5]			
97		(TCV_Nch_Pos := '00101'B)			
98		[nbr_fb = 6]			
99		(TCV_Nch_Pos := '00110'B)			
100		[C_Yes]		I	1
101		[nbr_bl = 2]			
102		[nbr_fb = 0]			
103		(TCV_Nch_Pos := '00111'B)			
104		[nbr_fb = 1]			
105		(TCV_Nch_Pos := '01000'B)			
106		[nbr_fb = 2]			
107		(TCV_Nch_Pos := '01001'B)			
108		[nbr_fb = 3]			
109		(TCV_Nch_Pos := '01010'B)			
110		[nbr_fb = 4]			
111		(TCV_Nch_Pos := '01011'B)			
112		[nbr_fb = 5]			
113		(TCV_Nch_Pos := '01100'B)			
114		[C_Yes]		I	1
115		[nbr_bl = 3]			
116		[nbr_fb = 0]			
117		(TCV_Nch_Pos := '01101'B)			
118		[nbr_fb = 1]			
119		(TCV_Nch_Pos := '01110'B)			
120		[nbr_fb = 2]			
121		(TCV_Nch_Pos := '01111'B)			
122		[nbr_fb = 3]			
123		(TCV_Nch_Pos := '10000'B)			
124		[nbr_fb = 4]			
125		(TCV_Nch_Pos := '10001'B)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
126		[C_Yes]		I	1
127		[nbr_bl = 4]			
128		[nbr_fb = 0]			
129		(TCV_Nch_Pos := '10010'B)			
130		[nbr_fb = 1]			
131		(TCV_Nch_Pos := '10011'B)			
132		[nbr_fb = 2]			
133		(TCV_Nch_Pos := '10100'B)			
134		[nbr_fb = 3]			
135		(TCV_Nch_Pos := '10101'B)			
136		[C_Yes]		I	1
137		[nbr_bl = 5]			
138		[nbr_fb = 0]			
139		(TCV_Nch_Pos := '10110'B)			
140		[nbr_fb = 1]			
141		(TCV_Nch_Pos := '10111'B)			
142		[nbr_fb = 2]			
143		(TCV_Nch_Pos := '11000'B)			
144		[C_Yes]		I	1
145		[nbr_bl = 6]			
146		[nbr_fb = 0]			
147		(TCV_Nch_Pos := '11001'B)			
148		[nbr_fb = 1]			
149		(TCV_Nch_Pos := '11010'B)			
150		[C_Yes]		I	1
151		[nbr_bl = 7]			
152		[nbr_fb = 0]			
153		(TCV_Nch_Pos := '11011'B)			
154		[C_Yes]		I	1
Detailed Comments : PARAMETER nbr_bl_res INTEGER Number of block reserved for NCH value between 1 and 7 for ASCII testing nbr_fb INTEGER Number of the first block used to send Notification on NCH value between 0 and 6 – for combined channel nbr_fb = 0 nbr_bl INTEGER Number of block used value between 1 and 7 – for combined nb_bl = 1 bl INTEGER block used to send the notification value between 0 and 6 COMMENTS 1. Other values of block are not relevant. 2. The number of block reserved shall not be greater than 7 3. Other cells than Cell_A and Cell_B are not used for ASCII testing					

Test Step Dynamic Behaviour					
Test Step Name : Wait(par_int:INTEGER)					
Group : Miscellaneous/					
Objective :					
Default : OtherEventsFail					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(par_int)			
2		?TIMEOUT T_dly			
Detailed Comments : This test step can be used , e.g. for 1s. delay of a PAGING REQUEST message following immediately a CHANNEL RELEASE.					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_cbms(sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; crh, mtmcgsm, mtmcdds : INTEGER; bcchflgsm, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP; Sub : B_2)

Group : Miscellaneous/SysInfo/

Objective : To send system information messages for the CBMS tests.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212), TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(Sub)), 5))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+ltree_sysinfo			
5		ltree_sysinfo			
6		[TSPC_PGSM OR TSPC_EGSM]			
6		L!DL_UdatRqSysinfo4	SysInfo4_CBMS(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re, ChDescrp_nfhiei(TCV_Tchtype, C_S0, C_BCC, C_arfcnA))		
7		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
8		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		(TCV_sysinf5 := SysInf5(bcchflgsm))			
11		[TSPC_DCS]			
12		L!DL_UdatRqSysinfo4	SysInfo4_CBMS(bcch, mcc, mnc, lac, crh, mtmcdds, TCV_Neci, TCV_Max, TCV_Tx, Re, ChDescrp_nfhiei(TCV_Tchtype, C_S0, C_BCC, C_arfcnAd))		
13		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
14		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdds, TCV_Neci, TCV_Max, TCV_Tx, Re)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
16		(TCV_sysinf5 := SysInf5(bcchfldcs))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_fh(sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgsm, cchddcs : CCHD; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/SysInfo/

Objective : To send system information messages for the L3 tests. The following parameters specified by input parameters:
 – bcch: BCCH
 – sch: SCH
 – bcchfl: BCCH frequency list
 – ci: Cell identity
 – lai: Location area identification
 – ccd: Control channel description
 – csp: Cell selection parameters
 – cchd: Cell channel description
 – rachcpar: RACH controll parameters
 – nccp: NCC permitted

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+ltree_sysinfo			
5		ltree_sysinfo			
6		[TSPC_PGSM OR TSPC_EGSM]			
7		L!DL_UdatRqSysinfo1	SysInfo1(bcch, cchdgsm, TCV_Max, TCV_Tx, Re)		
8		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
9		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
11		(TCV_sysinf5 := SysInf5(bcchflgsm))			
12		[TSPC_DCS]			
13		L!DL_UdatRqSysinfo1	SysInfo1(bcch, cchddcs, TCV_Max, TCV_Tx, Re)		
14		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
15		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
16		(TCV_sysinf5 := SysInf5(bcchfldcs), TCV_sysinf6.co.pwrc := '1'B)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_fh_asci (sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgs, cchddcs : CCHD; crh, mtmcgs, mtmcdds : INTEGER; bcchflgs, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP; sys4ro : INTEGER)

Group : Miscellaneous/SysInfo/

Objective : To send system information messages for the L3 tests. The following parameters specified by input parameters:
 – bcch: BCCH
 – sch: SCH
 – bcchfl: BCCH frequency list
 – ci: Cell identity
 – lai: Location area identification
 – ccd: Control channel description
 – csp: Cell selection parameters
 – cchd: Cell channel description
 – rachcpar: RACH controll parameters
 – nccp: NCC permitted

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+ltree_sysinfo			
5		ltree_sysinfo			
6		[TSPC_PGSM OR TSPC_EGSM]			
7		L!DL_UdatRqSysinfo1	SysInfo1_asciDef (bcch, cchdgs, TCV_Max, TCV_Tx, Re, TCV_Nch_Pos)		
8		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgs, TCV_Max, TCV_Tx, Re, nccp)		
9		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		[sys4ro = C_Sys4ro_Default]			
11		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
12		(TCV_sysinf5 := SysInf5(bcchflgs), TCV_sysinfo10 := SysInf10Def)			
13		[sys4ro = C_Sys4ro_Cell]			
14		L!DL_UdatRqSysinfo4	SysInfo4_asci_cell (bcch, mcc, mnc, lac, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
15		(TCV_sysinf5 := SysInf5(bcchflgs), TCV_sysinfo10 := SysInf10Def)			
		[TSPC_DCS]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		L!DL_UdatRqSysinfo1	SysInfo1_asciDef (bcch, cchddcs, TCV_Max, TCV_Tx, Re, TCV_Nch_Pos)		
17		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
18		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
19		[sys4ro = C_Sys4ro_Default]			
20		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
21		(TCV_sysinf5 := SysInf5(bcchfldcs), TCV_sysinf6.co.pwrc := '1'B, TCV_sysinfo10 := SysInf10Def)			
22		[sys4ro = C_Sys4ro_Cell]			
23		L!DL_UdatRqSysinfo4	SysInfo4_asci_cell (bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
24		(TCV_sysinf5 := SysInf5(bcchfldcs), TCV_sysinf6.co.pwrc := '1'B, TCV_sysinfo10 := SysInf10Def)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_nfh(sch, bcch : LOGICCH; t, retr, neci , att: INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltltdcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/SysInfo/

Objective : To send system information messages with default parameters defined for the L3 tests for which no special parameters indicated.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+gsmOrDcs			
		gsmOrDcs			
5		[TSPC_PGSM OR TSPC_EGSM]			1.
6		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci , TCV_Max, TCV_Tx, Re)		
7		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
8		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		[NOT TSPX_AltNb]			3.
10		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
11		(TCV_sysinf5 := SysInf5(bcchflgsm))			
12		[TSPX_AltNb]			4.
13		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcflaltgsm, TCV_Max, TCV_Tx, Re, nccp)		
14		(TCV_sysinf5 := SysInf5(bcflaltgsm))			
15		[TSPC_DCS]			2.
16		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci , TCV_Max, TCV_Tx, Re)		
17		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
18		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
19		[NOT TSPX_AltNb]			3.

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		4.
21		(TCV_sysinf5 := SysInf5(bcchfldcs))			
22		[TSPX_AltNb]			
23		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcflaltdcs, TCV_Max, TCV_Tx, Re, nccp)		
24		(TCV_sysinf5 := SysInf5(bcflaltdcs))			
Detailed Comments : 1. For GSM900 mobile station testing. 2. For DCS1800 mobile station testing. 3. To use alternative neighbour cells description. 4. To use default neighbour cells description.					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_e(sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgsm : CCHD; crh, mtmcgsm : INTEGER; bcchflgsm, bcchflegsm : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/SysInfo/

Objective : To send SYNCHRONIZATION CHANNEL INFORMATION and SYSTEM INFORMATION messages with default parameters except CCCH_CONF, Tx-integer, Max-Retrans and ATT which are specified by input parameters.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		1.
3		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
4		L!DL_UdatRqSysinfo1	SysInfo1(bcch, cchdgsm, TCV_Max, TCV_Tx, Re)		2.
5		L!DL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.bcchfl.extind := '1'B)	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
6		L!DL_UdatRqSysinfo2bis	SysInfo2bis(bcch, bcchflegsm)		
7		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
8		(TCV_sysinf5 := SysInf5(bcchflgsm), TCV_sysinfo5.bcchfl.extind := '1'B)			
9		(TCV_sysinf5bis := SysInf5bis(bcchflegsm))			
10		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		

Detailed Comments : 1. To send SYNCHRONIZATION INFORMATION message with default parameter for cell A.
2. System Information Type 1 with Cell Channel Description for HO-testin in cell A (GSM900).

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_e_asci (sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgs : CCHD; crh, mtmcgs : INTEGER; bcchflgs, bcchflegs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP; sys4ro : INTEGER)

Group : Miscellaneous/SysInfo/

Objective : To send SYNCHRONIZATION CHANNEL INFORMATION and SYSTEM INFORMATION messages with default parameters except CCCH_CONF, Tx-integer, Max-Retrans and ATT which are specified by input parameters.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		LIDL_UdatRqSchinfo	Synclnfo (sch, bcc, ncc)		1.
3		(TCV_sysinf6 := SysInf6 (ci, mcc, mnc, lac, co, nccp))			
4		LIDL_UdatRqSysinfo1	SysInfo1_asciDef (bcch, cchdgs, TCV_Max, TCV_Tx, Re, TCV_Nch_Pos)		2.
5		LIDL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.bcchfl.extind := '1'B)	SysInfo2 (bcch, bcchflgs, TCV_Max, TCV_Tx, Re, nccp)		
6		LIDL_UdatRqSysinfo2bis	SysInfo2bis (bcch, bcchflegs)		
7		[sys4ro = C_Sys4ro_Default]			
8		LIDL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		(TCV_sysinf5 := SysInf5(bcchflgs), TCV_sysinfo5.bcchfl.extind := '1'B, TCV_sysinfo10 := SysInf10Def)			
10		(TCV_sysinf5bis := SysInf5bis(bcchflegs))			
11		LIDL_UdatRqSysinfo3	SysInfo3 (bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
12		[sys4ro = C_Sys4ro_Cell]			
13		LIDL_UdatRqSysinfo4	SysInfo4_asci_cell(bcch, mcc, mnc, lac, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
14		(TCV_sysinf5 := SysInf5(bcchflgs), TCV_sysinfo5.bcchfl.extind := '1'B, TCV_sysinfo10 := SysInf10Def)			
15		(TCV_sysinf5bis := SysInf5bis(bcchflegs))			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		L!DL_UdatRqSysinfo3	SysInfo3 (bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
Detailed Comments : 1. To send SYNCHRONIZATION INFORMATION message with default parameter for cell A. 2. System Information Type 1 with Cell Channel Description for HO–testin in cell A (GSM900).					

Test Step Dynamic Behaviour					
Test Step Name : SysInfo_SacchSending(ch : LOGICCH; sysinfo5_pdu : SYSINFO5_PDU; sysinfo6_pdu : SYSINFO6_PDU) Group : Miscellaneous/SysInfo/ Objective : To send SYSTEM INFORMATION 5 and 6 messages defined by parameters 'sysinfo5_pdu' and 'sysinfo6_pdu' in the parametrised 'ch' channel. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ch <> "dummy"]			
2		L!DL_UdatRqSysinfo6	SysInfo6(ch , sysinfo6_pdu)		
3		L!DL_UdatRqSysinfo5	SysInfo5(ch , sysinfo5_pdu)		
4		[ch = "dummy"]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : SysInfo_SacchSending_ascii (ch : LOGICCH; sysinfo5_pdu : SYSINFO5_PDU; sysinfo6_pdu : SYSINFO6_PDU ; sysinfo10_pdu : SYSINFO10_PDU) Group : Miscellaneous/SysInfo/ Objective : To send SYSTEM INFORMATION 5 and 6 messages defined by parameters 'sysinfo5_pdu' and 'sysinfo6_pdu' in the parametrised 'ch' channel. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ch <> "dummy"]			
2		L!DL_UdatRqSysinfo6	SysInfo6 (ch , sysinfo6_pdu)		
3		L!DL_UdatRqSysinfo5	SysInfo5(ch , sysinfo5_pdu)		
4		L!DL_UdatRqSysinfo10	SysInfo10 (ch , sysinfo10_pdu)		
5		[ch = "dummy"]		I	
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CCEstablishMO_SDCCH4(sub : B_2; ta : TA) Group : Preambles/ Objective : Establish a MO SDCCH/4 connection. This is used in CC testing Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_19)		
2		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		1.
Detailed Comments : 1. To assign a SDCCH/4.					

Test Step Dynamic Behaviour					
Test Step Name : CheckTIsInStateU0(mo: BOOLEAN; ch: LOGICCH) Group : Preambles/ Objective : Check that all MO or MT CC entities in the MS are in state U0. This is used in CC testing. Default : OtherEventsFail Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[mo]			
2		(TCV_TI1.ti_f := '1'B, TCV_TI2.ti_f := '0'B)			
3		+localtree1			
4		[NOT mo]			
5		(TCV_TI1.ti_f := '0'B, TCV_TI2.ti_f := '1'B)			
6		+localtree1			
7		localtree1			
8		(TCV_Cnt := 0)			
9		REPEAT localtree2 UNTIL [TCV_Cnt = 7]			
10		localtree2			
11	L_085 8	(TCV_TI1.ti_v := INT_TO_BIT(TCV_Cnt, 3), TCV_TI2.ti_v := INT_TO_BIT(TCV_Cnt, 3)) L!DL_DatRqCcstEnq L?DL_DatInRelCmp	CCStESnd(ch, CCStatusEq_01(TCV_TI1)) RelComRcv(ReleaseCmpRcv(TCV_TI2, Cause_07))	(P)	1.
12		(TCV_Cnt := TCV_Cnt + 1)			
Detailed Comments : 1. Cause #81 (invalid TI value)					

Test Step Dynamic Behaviour

Test Step Name : Est_MO_Call(ta : TA; rate : IA5String; rand : RAND; sdcch : B_2; slot : SN; tsc : TSC; tch : B_1)

Group : Preambles/

Objective : To establish a mobile station originating call using standard procedure.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+InitCall(TCV_Service)			
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sdcch, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
6		ACTIVATE(OtherEvents)			Restore Normal default
7		+Authentication(TCV_ch, TCV_cksn, rand)			
8		+Ciphering_on(TCV_ch)			
9		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
10		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
11		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
12		+AssCmdGen(TCV_cellid, rate, slot, tsc, tch)			
13		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
14		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
15		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU01_21 (sub : B_2; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U0.1 by procedure in table 26.8.1.2/1. This is used in CC testing.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMO_SDCCH4(sub, ta)			1.
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default tree

Detailed Comments : 1. To assign SDCCH4 channel.

Test Step Dynamic Behaviour

Test Step Name : BasicServiceMO(svc : SERVICES; rate : RATE)

Group : Preambles/

Objective : To generate a Bcap, an MO SETUP message and an appropriate channel mode based on the service and rate, as well as on several IXIT parameters, itc, ce, ur, synchronous bit for an MO call.

Default : OtherEvents

Comments : Used for CC tests

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_init			Default values
2		[TCV_Service = C_EmgCall]			
3		(TCV_ChMod.mode := C_ChMod_r, TCV_Esetup := Setup_04(Bcap_Speech_MO(TCV_Rchr)), TCV_Ecall := C_Yes)			Emergency Call
4		[TCV_Service = C_Telephony]			
5		(TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mo := Setup_02(Bcap_Speech_MO(TCV_Rchr)))			Speech
6		[TCV_Service = C_AltSpchFax]			
7		[rate = C_Full]			
8		+TS61MO(C_AltSpchFax)			Speech/fax
9		[rate <> C_Full]		I	IXIT error
10		[TCV_Service = C_AutoFax]			
11		[rate = C_Full]			
12		+TS62MO(C_AutoFax)			Auto fax
13		[rate <> C_Full]		I	IXIT error
14		[TCV_Service = C_Async300]			
15		+BS2xMO(C_Async300, TSPX_BS_21_sacp, TSPX_BS_21_T_NT, TSPX_BS_21_itc1, C_300bs, C_modemt_V21, TSPX_BS_21_ce)			BS21
16		[TCV_Service = C_Async1200]			
17		+BS2xMO(C_Async1200, TSPX_BS_22_sacp, TSPX_BS_22_T_NT, TSPX_BS_22_itc1, C_1200bs, C_modemt_V22, TSPX_BS_22_ce)			BS22
18		[TCV_Service = C_Async120075]			
19		+BS2xMO(C_Async120075, TSPX_BS_23_sacp, TSPX_BS_23_T_NT, TSPX_BS_23_itc, C_120075bs, C_modemt_V23, TSPX_BS_23_ce)			BS23
20		[TCV_Service = C_Async2400]			
21		+BS2xMO(C_Async2400, TSPX_BS_24_sacp, TSPX_BS_24_T_NT, TSPX_BS_24_itc1, C_2400bs, TCV_MODEM.V22bisOrV26ter, TSPX_BS_24_ce)			BS24
22		[TCV_Service = C_Async4800]			
23		+BS2xMO(C_Async4800, TSPX_BS_25_sacp, TSPX_BS_25_T_NT, TSPX_BS_25_itc1, C_4800bs, C_modemt_V32, TSPX_BS_25_ce)			BS25
24		[TCV_Service = C_Async9600]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		+BS2xMO(C_Async9600, TSPX_BS_26_sacp, TSPX_BS_26_T_NT, TSPX_BS_26_itc1, C_9600bs, C_modemt_V32, TSPX_BS_26_ce)			BS26
26		[TCV_Service = C_Sync1200]			
27		+BS3xMO(C_Sync1200, FALSE, TSPX_BS_31_itc1, TSPX_BS_31_sacp1, C_1200bs, C_transparent, C_modemt_V22)			BS31
28		[TCV_Service = C_Sync2400]			
29		+BS3xMO(C_Sync2400, TSPX_BS_32_X32_T_NT, TSPX_BS_32_itc1, TSPX_BS_32_sacp1, C_2400bs, TSPX_BS_32_X32_ce, TCV_MODEM.V22bisOrV26ter)			BS32
30		[TCV_Service = C_Sync4800]			
31		+BS3xMO(C_Sync4800, TSPX_BS_33_X32_T_NT, TSPX_BS_33_itc1, TSPX_BS_33_sacp1, C_4800bs, TSPX_BS_33_X32_ce, C_modemt_V32)			BS33
32		[TCV_Service = C_Sync9600]			
33		+BS3xMO(C_Sync9600, TSPX_BS_34_X32_T_NT, TSPX_BS_34_itc1, TSPX_BS_34_sacp1, C_9600bs, TSPX_BS_34_X32_ce, C_modemt_V32)			BS34
34		[TCV_Service = C_PAD300]			
35		+BS4xMO(C_PAD300, C_300bs, TSPX_BS_41_ce, TSPX_BS_41_T_NT)			BS41
36		[TCV_Service = C_PAD1200]			
37		+BS4xMO(C_PAD1200, C_1200bs, TSPX_BS_42_ce, TSPX_BS_42_T_NT)			BS42
38		[TCV_Service = C_PAD120075]			
39		+BS4xMO(C_PAD120075, C_120075bs, TSPX_BS_43_ce, TSPX_BS_43_T_NT)			BS43
40		[TCV_Service = C_PAD2400]			
41		+BS4xMO(C_PAD2400, C_2400bs, TSPX_BS_44_ce, TSPX_BS_44_T_NT)			BS44
42		[TCV_Service = C_PAD4800]			
43		+BS4xMO(C_PAD4800, C_4800bs, TSPX_BS_45_ce, TSPX_BS_45_T_NT)			BS45
44		[TCV_Service = C_PAD9600]			
45		+BS4xMO(C_PAD9600, C_9600bs, TSPX_BS_46_ce, TSPX_BS_46_T_NT)			BS46
46		[TCV_Service = C_Packet2400]			
47		+BS5xMO(C_Packet2400, C_2400bs)			BS51
48		[TCV_Service = C_Packet4800]			
49		+BS5xMO(C_Packet4800, C_4800bs)			BS52
50		[TCV_Service = C_Packet9600]			
51		+BS5xMO(C_Packet9600, C_9600bs)			BS53
52		[TCV_Service = C_AltSpchData]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
53		+BS61or81MO(C_AltSpchData, TSPX_BS_61_A, TSPX_BS_61_A_ur1_T_NT, TSPX_BS_61_A_ur1, TSPX_BS_61_A_ur1_ce, TSPX_BS_61_S, TSPX_BS_61_S_ur1, C_RI_alterate)			BS61
54		[TCV_Service = C_SpchData]			
55		+BS61or81MO(C_SpchData, TSPX_BS_81_A, TSPX_BS_81_A_ur1_T_NT, TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur1_ce, TSPX_BS_81_S, TSPX_BS_81_S_ur1, C_RI_follow)			BS81
56		[C_Yes]		I	IXIT error
57		local_init (TCV_Service := svc, TCV_Rchr := C_Rchr_Full, TCV_Ecall := C_No, TCV_ChRate :=rate, TCV_ChMod.iei := '01100011'B, TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.iei := '01100011'B, TCV_ChModb.mode := C_ChMod_12k, TCV_MODEM := V22bisOrV26ter)			
58		[TSPC_DualRate AND (TSPC_HalfRateData AND (TCV_Service <> C_EmgCall) AND (TCV_Service <> C_Telephony) OR TSPC_HalfRateSpeech AND ((TCV_Service = C_EmgCall) OR (TCV_Service = C_Telephony)))]			
59		(TCV_Rchr := C_Rchr_DualForDualH)			
60		[C_Yes]			
Detailed Comments : This test step is called in the preamble of test cases where an MO call is established in the test body.					

Test Step Dynamic Behaviour

Test Step Name : BasicServiceMO_Asci (rate : RATE; serv : INTEGER)

Group : Preambles/

Objective : To generate a // for an MO ASCII call.

Default : OtherEvents

Comments : Used for CC tests

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_ChRate :=rate, TCV_ChMod.iei := '01100011'B, TCV_ChMod.mode := C_ChMod_r , TCV_Rchr := C_Rchr_Full)			Default values
2		+ LT_Asci_ServiceFlag			TCV_Rc hr
		LT_Asci_ServiceFlag			
3		[serv = C_asciService_default]			
4		[TSPC_VGCS_Listening]			
5		(TCV_VGCS_VBS_Type := C_VGCSType)			
6		[TSPC_VBS_Listening]			
7		(TCV_VGCS_VBS_Type := C_VBSType)			
8		[C_Yes]		I	
9		[serv = C_asciService_vgcs]			
10		(TCV_VGCS_VBS_Type := C_VGCSType)			
11		[serv = C_asciService_vbs]			
12		(TCV_VGCS_VBS_Type := C_VBSType)			

Detailed Comments : This test step is called in the preamble of test cases where an MO VBS call is established in the test body.

Test Step Dynamic Behaviour					
Test Step Name : BasicServiceMT(svc : SERVICES; rate : RATE) Group : Preambles/ Objective : To generate a Bcap, an MT SETUP message and an appropriate channel mode based on the service and rate, as well as on several IXIT parameters, itc, ce, ur, synchronous bit for an MT call. To generate a second SETUP message for TC_11_1_1. Default : OtherEvents Comments : Used for CC tests					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Service := svc, TCV_ChRate :=rate, TCV_ChMod.iei := '01100011'B, TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.iei := '01100011'B, TCV_ChModb.mode := C_ChMod_12k, TCV_2ndtest := C_No)			Default values
2		+SvcSupportedChk(svc)			
3		+local_main			
		local_main			
4		[TCV_Service = C_Telephony]			
5		(TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mt := Setup_01(TI_02))			Speech
6		+local_IFsetup_Telephony			Config speech
7		[TCV_Service = C_AltSpchFax]			
8		+TS61MT(C_AltSpchFax)			Speech/fax
9		[TCV_Service = C_AutoFax]			
10		+TS62MT(C_AutoFax)			Auto fax
11		[TCV_Service = C_Async300]			
12		+BS2xMT(C_Async300, TSPX_BS_21_more_itc, TSPX_BS_21_T_NT, TSPX_BS_21_itc1, TSPX_BS_21_itc2, C_300bs, C_modemt_V21, TSPX_BS_21_ce)			BS21
13		[TCV_Service = C_Async1200]			
14		+BS2xMT(C_Async1200, TSPX_BS_22_more_itc, TSPX_BS_22_T_NT, TSPX_BS_22_itc1, TSPX_BS_22_itc2, C_1200bs, C_modemt_V22, TSPX_BS_22_ce)			BS22
15		[TCV_Service = C_Async2400]			
16		+BS2xMT(C_Async2400, TSPX_BS_24_more_itc, TSPX_BS_24_T_NT, TSPX_BS_24_itc1, TSPX_BS_24_itc2, C_2400bs, C_modemt_V22bis, TSPX_BS_24_ce)			BS24
17		[TCV_Service = C_Async4800]			
18		+BS2xMT(C_Async4800, TSPX_BS_25_more_itc, TSPX_BS_25_T_NT, TSPX_BS_25_itc1, TSPX_BS_25_itc2, C_4800bs, C_modemt_V32, TSPX_BS_25_ce)			BS25
19		[TCV_Service = C_Async9600]			
20		+BS2xMT(C_Async9600, TSPX_BS_26_more_itc, TSPX_BS_26_T_NT, TSPX_BS_26_itc1, TSPX_BS_26_itc2, C_9600bs, C_modemt_V32, TSPX_BS_26_ce)			BS26
21		[TCV_Service = C_Sync1200]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		+BS3xMT(C_Sync1200, TSPX_BS_31_more_itc, C_No, TSPX_BS_31_more_sacp, TSPX_BS_31_itc1, TSPX_BS_31_itc2, TSPX_BS_31_sacp1, TSPX_BS_31_sacp2, C_1200bs, C_transparent)			BS31
23		[TCV_Service = C_Sync2400]			
24		+BS3xMT(C_Sync2400, TSPX_BS_32_more_itc, TSPX_BS_32_X32_T_NT, TSPX_BS_32_more_sacp, TSPX_BS_32_itc1, TSPX_BS_32_itc2, TSPX_BS_32_sacp1, TSPX_BS_32_sacp2, C_2400bs, TSPX_BS_32_X32_ce)			BS32
25		[TCV_Service = C_Sync4800]			
26		+BS3xMT(C_Sync4800, TSPX_BS_33_more_itc, TSPX_BS_33_X32_T_NT, TSPX_BS_33_more_sacp, TSPX_BS_33_itc1, TSPX_BS_33_itc2, TSPX_BS_33_sacp1, TSPX_BS_33_sacp2, C_4800bs, TSPX_BS_33_X32_ce)			BS33
27		[TCV_Service = C_Sync9600]			
28		+BS3xMT(C_Sync9600, TSPX_BS_34_more_itc, TSPX_BS_34_X32_T_NT, TSPX_BS_34_more_sacp, TSPX_BS_34_itc1, TSPX_BS_34_itc2, TSPX_BS_34_sacp1, TSPX_BS_34_sacp2, C_9600bs, TSPX_BS_34_X32_ce)			BS34
29		[TCV_Service = C_AltSpchData]			
30		+BS61or81MT(C_AltSpchData, TSPX_BS_61_A, TSPX_BS_61_A_ur1_T_NT, TSPX_BS_61_A_ur2_T_NT, TSPX_BS_61_A_more_ur, TSPX_BS_61_S, TSPX_BS_61_S_more_ur, TSPX_BS_61_A_ur1, TSPX_BS_61_A_ur2, TSPX_BS_61_S_ur1, TSPX_BS_61_S_ur2, C_RI_altermate, TSPX_BS_61_A_ur1_ce)			BS61
31		[TCV_Service = C_SpchData]			
32		+BS61or81MT(C_SpchData, TSPX_BS_81_A, TSPX_BS_81_A_ur1_T_NT, TSPX_BS_81_A_ur2_T_NT, TSPX_BS_81_A_more_ur, TSPX_BS_81_S, TSPX_BS_81_S_more_ur, TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur2, TSPX_BS_81_S_ur1, TSPX_BS_81_S_ur2, C_RI_follow, TSPX_BS_81_A_ur1_ce)			BS81

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33		[(TCV_Service <> C_Telephony) AND (TCV_Service <> C_AltSpchFax) AND (TCV_Service <> C_AutoFax) AND (TCV_Service <> C_Async300) AND (TCV_Service <> C_Async1200) AND (TCV_Service <> C_Async2400) AND (TCV_Service <> C_Async4800) AND (TCV_Service <> C_Async9600) AND (TCV_Service <> C_Sync1200) AND (TCV_Service <> C_Sync2400) AND (TCV_Service <> C_Sync4800) AND (TCV_Service <> C_Sync9600) AND (TCV_Service <> C_AltSpchData) AND (TCV_Service <> C_SpchData)] local_IFsetup_Telephony		I	
34		[TCV_supported]			
35		(TCV_Null := OO_IFsetup_Telephony())			
36		[NOT TCV_supported]			
37		[TCV_SpecialCase]			
38		START T_dly(C_T_Wait)			
39		?TIMEOUT T_dly			
40		[NOT TCV_SpecialCase]		I	parameter error
Detailed Comments : This test step is called in the preamble of test cases where an MT call is established in the test body.					

Test Step Dynamic Behaviour

Test Step Name : BasicServiceMT_Asci (rate : RATE; serv : INTEGER; sch : B_1)

Group : Preambles/

Objective : To generate an appropriate channel mode based on the rate.

Default : OtherEvents

Comments : Used for CC tests

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	AS_001	(TCV_ChRate :=rate, TCV_ChMod.iei := '01100011'B, TCV_ChMod.mode := C_ChMod_r)		I	Default values
2		+ LT_Asci_ServiceFlag			Config asci incoming call
3		(TCV_Null := OO_IFsetup_Asci (TCV_VGCS_VBS_Type))			
4		+ LT_AssCmdGen LT_Asci_ServiceFlag			
5		[serv = C_asciService_default]			
6		[TSPC_VGCS_Listening]			
7		(TCV_VGCS_VBS_Type := C_VGCSType)			
8		[TSPC_VBS_Listening]			
9		(TCV_VGCS_VBS_Type := C_VBSType)			
10		[C_Yes]			
11		[serv = C_asciService_vgcs]			
12		(TCV_VGCS_VBS_Type := C_VGCSType)			
13		[serv = C_asciService_vbs]			
14		(TCV_VGCS_VBS_Type := C_VBSType) LT_AssCmdGen			
15		[rate <> C_Half]			Full rate
16		(TCV_Tchtype := '00001'B)			Half rate
17		[rate = C_Half]			
18		[sch = '0'B]			
19		(TCV_Tchtype := '00010'B)			
20		[sch = '1'B]			
21		(TCV_Tchtype := '00011'B)			

Detailed Comments : This test step is called in the preamble of test cases where an ASCI call is established in the test body.

Test Step Dynamic Behaviour					
Test Step Name : BS2xMO(srv : SERVICES; sacp: B_3; both : BOOLEAN; itc1 : B_3; ur : B_4; modem : B_5; ce : B_2) Group : Preambles/ Objective : To generate an MO SETUP message with appropriate Bcap and LLC for BS2x service. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, TCV_ir := C_ir_16kbs)			
2		+local_pixitvaluechk			validate IXIT values
3		+local_selectCe			select a connection element
4		+local_bcap			generate BC
5		+local_setupmsg			generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(TCV_srv, itc1, sacp, TCV_ce, TCV_ChRate))			ask test operator to configure the MS
8		local_bcap			
9		[NOT both]			
10		[TCV_ce = C_nottransparent]			
11		[itc1 = C_UDI]			
12		+local_BS2x_UDI_NT(C_nottransparent, sacp)			
13		[itc1 = C_3100Hz]			
14		+local_BS2x_3100_NT(C_nottransparent, sacp)			
15		[TCV_ce = C_transparent]			CE:T only MS
16		[itc1 = C_UDI]			
17		+local_BS2x_UDI_T(sacp)			
18		[itc1 = C_3100Hz]			
19		+local_BS2x_3100_T(sacp)			
20		[both]			
21		[TCV_ce = C_transparent]			
22		[itc1 = C_UDI]			
23		+local_BS2x_UDI_Tboth(TCV_CE.TorBothTorBothNT,sacp)			
24		[itc1 = C_3100Hz]			3.1kHz
		+local_BS2x_3100_Tboth(TCV_CE.TorBothTorBothNT, sacp)			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		[(TCV_ce = C_nottransparent)]			
26		[itc1 = C_UDI]			
27		+local_BS2x_UDI_NT(TCV_CE.NTorBothTor BothNT,sacp)			
28		[itc1 = C_3100Hz]			3.1kHz
29		+local_BS2x_3100_NT(TCV_CE.NTorBothTo rBothNT, sacp)			
30		local_BS2x_3100_NT(cel: B_2; sacp : B_3) (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUIntegrity, C_nirr_dontcare, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))			11.8.2.1 .1.2
31		local_BS2x_UDI_NT(cel: B_2; sacp : B_3) (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUIntegrity, C_nirr_dontcare, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, cel, C_modemt_none, C_uil2p_dontcare))			11.8.2.1 .1.4
32		local_BS2x_3100_T(sacp : B_3)			
33		[ur = C_9600bs] (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, modem))			11.8.2.1 .1.1
34		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
35		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, modem), TCV_ir := C_ir_8kbs)			11.8.2.1 .1.1
36		local_BS2x_UDI_T(sacp : B_3)			
37		[ur = C_9600bs] (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, C_modemt_none))			11.8.2.1 .1.3
38		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
39		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_none), TCV_ir := C_ir_8kbs)			11.8.2.1 .1.3

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
40		local_BS2x_3100_Tboth(cel: B_2; sacp : B_3)			
41		[ur <> C_9600bs] (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_dontcare, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))			11.8.2.1 .1.1 conbinrd with 11.8.2.1 .1.2 , CE and structure without exact match
42		[ur = C_9600bs]			
43		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_nomeaning, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))			11.8.2.1 .1.1 conbinrd with 11.8.2.1 .1.2 , CE and structure without exact match
44		local_BS2x_UDI_Tboth(cel: B_2; sacp : B_3)			
45		[ur = C_9600bs] (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, C_modemt_none, C_uil2p_dontcare))			11.8.2.1 .1.3 combine d with 11.8.2.1 .1.4, CE and structure without exact match
46		[ur <> C_9600bs]			
47		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_dontcare, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, C_modemt_none, C_uil2p_dontcare))			11.8.2.1 .1.3 combine d with 11.8.2.1 .1.4, CE and structure without exact match
48		local_setupmsg [itc1 = C_UDI]			
49		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS2xOrBS4x_UDI, Hlcmp_AnyOrOmit))			
50		[itc1 = C_3100Hz]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51		(TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1, Llcmp_BS2xOrBS61aOrBS81a_3100, Hlcmp_AnyOrOmit))			
		local_selectCe			
52		[both]			
53		[(ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]			
54		(TCV_ce := C_nottransparent)			
55		[(ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]			
56		(TCV_ce := C_transparent)			
57		[NOT both]			
58		(TCV_ce := ce)			
		local_pixitvaluechk			
59		[(ce <> C_transparent) AND (ce <> C_nottransparent) AND (NOT both)]		I	IXIT error
60		[(itc1 <> C_UDI) AND (itc1 <> C_3100Hz)]		I	IXIT error
61		[(sacp <> C_l440_450) AND (sacp <> C_X28_nond)]		I	IXIT error
62		[C_Yes]			IXIT values OK
<p>Detailed Comments : The BS2x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.1.1.1, section 11.8.2.1.1.2, section 11.8.2.1.1.3 and section 11.8.2.1.1.4 of GSM 11.10 and section B.1.2.1, section B.1.2.2, section B.1.2.1 and section B.2.2.2 of GSM 07.01.</p> <p>The algorithm for selecting parameters: IF (TSPX_BS_2x_T_NT) TCV_ce := C_nottransparent ELSE TCV_ce := TSPX_BS_2x_ce</p> <p>use (TCV_ce, TSPX_BS_2x_itc1, TSPX_BS_2x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO</p>					

Test Step Dynamic Behaviour					
Test Step Name : BS2xMT(srv : SERVICES; more, both : BOOLEAN; itc1, itc2 : B_3; ur : B_4; modem : B_5; ce : B_2) Group : Preambles/ Objective : To generate an MT SETUP message with appropriate Bcap for BS2x service. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_main			
2		+local_IFsetup			
3		local_main (TCV_srv := srv, TCV_itc := itc1)			
4		+local_bcap1			
5		(TCV_Setup_mt := Setup_20(TCV_BcapMT1, TI_02))			1st SETUP
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			Ini ch mode
7		+local_bcap2			
8		(TCV_Setup_mt1:= Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes)			2nd SETUP
9		local_bcap1 [itc1 = C_3100Hz]			3.1kHz
10		[both OR (ce = C_nottransparent)]			
11		+local_BS2x_3100_NT(C_nottransparent)			
12		[NOT both AND (ce = C_transparent)]			
13		+local_BS2x_3100_T			
14		[itc1 = C_UDI]			UDI
15		[both OR (ce = C_nottransparent)]			
16		+local_BS2x_UDI_NT(C_nottransparent)			
17		[NOT both AND (ce = C_transparent)]			
18		+local_BS2x_UDI_T			
19		[(itc1 <> C_3100Hz) AND (itc1 <> C_UDI)]		I	
20		local_bcap2			
21		+local_itc			
22		+local_bcap (TCV_BcapMT2 := TCV_BcapMT1)			
23		local_itc (TCV_itc2 := itc1)			
24		[more]			3.1 kHz
25		(TCV_itc2 := itc2)			
26		[NOT more]			
27		local_bcap [both AND (TCV_itc2 = C_3100Hz)]			
28		+local_BS2x_3100_T			
29		[both AND (TCV_itc2 = C_UDI)]			UDI
30		+local_BS2x_UDI_T			
31		[NOT both AND (TCV_itc2 = C_3100Hz)]			
32		+local_BS2x_3100_NT(C_BothT)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33	L_094 3	[NOT both AND (TCV_its2 = C_UDI)]		I	UDI
34		+local_BS2x_UDI_NT(C_BothT)			
35		[(TCV_its2 <> C_3100Hz) AND (TCV_its2 <> C_UDI)]			
		local_BS2x_3100_NT(cel: B_2)			
36		[TSPX_TE_FLCT = C_Inband]			11.8.1.1 .1.2
37		(TCV_BcapMT1 := BcapX_MT(C_3100Hz, C_SDUIegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modem, C_ISO6429), TCV_ce := cel)			
38		[TSPX_TE_FLCT = C_Nocontrol]			
39		(TCV_BcapMT1 := BcapX_MT(C_3100Hz, C_SDUIegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modem, C_COPnoFLCT), TCV_ce := cel)			11.8.1.1 .1.2
40		[(TSPX_TE_FLCT = C_Outband) OR ((TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol))]			
41		local_BS2x_UDI_NT(cel: B_2)			
42		[TSPX_TE_FLCT = C_Outband]			11.8.1.1 .1.4
43		(TCV_BcapMT1 := Bcap_MT(C_UDI, C_SDUIegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, C_modemt_none), TCV_ce := cel)			
44		[TSPX_TE_FLCT = C_Inband]			
45		(TCV_BcapMT1 := BcapX_MT(C_UDI, C_SDUIegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, C_modemt_none, C_ISO6429), TCV_ce := cel)			11.8.1.1 .1.4
46		[TSPX_TE_FLCT = C_Nocontrol]			
47		(TCV_BcapMT1 := BcapX_MT(C_UDI, C_SDUIegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, C_modemt_none, C_COPnoFLCT), TCV_ce := cel)			
48		[(TSPX_TE_FLCT <> C_Outband) AND (TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol)]		I	
		local_BS2x_3100_T			
		[ur = C_9600bs]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49		(TCV_BcapMT1 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, C_transparent, modem), TCV_itc2 := C_3100Hz, TCV_ce := C_transparent)			11.8.1.1 .1.1
50		[ur <> C_9600bs]			
51		(TCV_BcapMT1 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_8kbs, TSPX_TE_parity, C_transparent, modem), TCV_itc2 := C_3100Hz, TCV_ce := C_transparent)			11.8.1.1 .1.1
		local_BS2x_UDI_T			
52		[ur = C_9600bs]			
53		(TCV_BcapMT1 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, C_transparent, C_modemt_none), TCV_itc2 := C_UDI, TCV_ce := C_transparent)			11.8.1.1 .1.3
54		[ur <> C_9600bs]			
55		(TCV_BcapMT1 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_8kbs, TSPX_TE_parity, C_transparent, C_modemt_none), TCV_itc2 := C_UDI, TCV_ce := C_transparent)			11.8.1.1 .1.3
		local_IFsetup			
56		[TCV_supported]			
57		(TCV_Null := OO_IFsetup_BS2x_MT(TCV_srv, TCV_itc))			
58		[NOT TCV_supported]			
59		[TCV_SpecialCase]			
60		START T_dly(C_T_Wait)			
61		?TIMEOUT T_dly			
62		[NOT TCV_SpecialCase]		I	Parameter error
Detailed Comments : The algorithm for derivation of BS2x Bearer Capabilities : The Bearer Capability for 1st SETUP (used for an MT call): itc= TSPX_BS_2x_itc1 IF itc=3.1kHz IF TSPX_BS_2x_T_MT OR (NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = NT)) use coding of sec. 11.8.1.1.1.2 with (ce=NT) ELSE IF NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = T) use coding of sec. 11.8.1.1.1.1 with (ce=T) ELSE IF itc=udi					

Test Step Dynamic Behaviour

Detailed Comments : ...

IF TSPX_BS_2x_T_MT OR (NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = NT))
 use coding of sec. 11.8.1.1.1.4 with (ce=NT)
ELSE IF NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = T)
 use coding of sec. 11.8.1.1.1.3 with (ce=T)

The derived 2nd Bearer Capability for 2nd SETUP: (used for TC_11_1_1)

IF TSPX_BS_2x_more_itc

 itc=TSPX_BS_2x_itc2

ELSE

 itc= TSPX_BS_2x_itc1

 IF TSPX_BS_2x_T_NT

 IF itc=3.1kHz use coding of sec. 11.8.1.1.1.1 with (ce=T)

 IF itc=udi use coding of sec. 11.8.1.1.1.3 with (ce=T)

 ELSE

 IF itc=3.1Khz use coding of sec. 11.8.1.1.1.2 with (ce=both/T)

 IF itc=udi use coding of sec. 11.8.1.1.1.4 with (ce=both/T)

Test Step Dynamic Behaviour

Test Step Name : BS3xMO(srv : SERVICES; both : BOOLEAN; itc1, sacp1 : B_3; ur : B_4; ce : B_2; modem : B_5)
Group : Preambles/
Objective : To generate an MO SETUP message with appropriate Bcap and LLC for BS3x service.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, TCV_ir := C_ir_16kbs, TCV_uil1p := C_no_rate_adaption)			
2		+local_pixitvaluechk			2.
3		+local_selectCe			select a CE
4		+local_bcap			generate BC
5		+local_setupmsg			3.
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(TCV_srv, itc1, sacp1, TCV_ce, TCV_ChRate))			ask test operator to configure the MS
8		local_bcap			
9		[NOT both]			
10		[TCV_ce = C_nottransparent]			
11		[itc1 = C_UDI]			
12		[sacp1 = C_X32]			
13		+local_BS3x_UDI_X32_NT		I	5.
14		[sacp1 <> C_X32]			
15		[itc1 = C_3100Hz]		I	6.
16		[sacp1 <> C_X32]			
17		[sacp1 = C_X32]			
18		+local_BS3x_3100_X32_NT(C_nottransparent)			
19		[TCV_ce = C_transparent]			CE:T only MS
20		[itc1 = C_UDI]			
21		[sacp1 = C_X32]		I	7.
22		[sacp1<> C_X32]			
23		+local_BS3x_UDI_T(sacp1)			
24		[itc1 = C_3100Hz]			
25		[sacp1 = C_X21]		I	8.
26		[sacp1 = C_I440_450]			
27		+local_BS3x_3100_T			
28		[sacp1 = C_X32]			
29		+local_BS3x_3100_X32_T			
30		[both]			
31		[TCV_ce = C_transparent]			
32		[itc1 = C_UDI]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		[sacp1 = C_X32]		I	7.
33		[sacp1<> C_X32]			
34		+local_BS3x_UDI_T(sacp1)			
35		[itc1 = C_3100Hz]			3.1kHz
36		[sacp1 = C_X21]		I	8.
37		[sacp1 = C_I440_450]			
38		+local_BS3x_3100_T			
39		[sacp1 = C_X32]			
40		+local_BS3x_3100_X32_NT(TCV_CE.TorBothTorBothNT)			
41		[(TCV_ce = C_nottransparent)]			
42		[itc1 = C_UDI]			
43		[sacp1 = C_X32]			
44		+local_BS3x_UDI_X32_NT			
45		[sacp1 <> C_X32]		I	5.
46		[itc1 = C_3100Hz]			3.1kHz
47		[sacp1 <> C_X32]		I	6.
48		[sacp1 = C_X32]			
49		+local_BS3x_3100_X32_Tboth(TCV_CE.NTorBothTorBothNT)			
		local_setupmsg			
50		[itc1 = C_UDI]			
51		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS3x_UDI, Hlcmp_AnyOrOmit))			
52		[itc1 = C_3100Hz]			
53		(TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1, Llcmp_BS3xOrBS61sOrBS81s_3100, Hlcmp_AnyOrOmit))			
		local_BS3x_3100_T			
54		[ur = C_9600bs]			
55		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.1
56		[ur <> C_9600bs]			
57		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.1
		local_BS3x_UDI_T(sacp : B_3)			
58		[ur = C_9600bs]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
59		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_transparent, C_modemt_none), TCV_uil1p := C_rate_adaption_V110)			11.8.2.2 .1.2
60		[NOT (ur = C_9600bs)]			
61		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs, C_parity_NA, C_transparent, C_modemt_none), TCV_ir := C_ir_8kbs, TCV_uil1p := C_rate_adaption_V110)			11.8.2.2 .1.2
62		local_BS3x_3100_X32_T			
63		[ur = C_9600bs]			
64		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.3
65		[ur <> C_9600bs]			
66		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.3
67		local_BS3x_3100_X32_NT(ce2 : B_2)			
68		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUIntegrity, C_nirr_dontcare, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce2, modem, C_X25_flt))			11.8.2.2 .1.4
69		local_BS3x_UDI_X32_NT			
70		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUIntegrity, C_nirr_dontcare, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_nottransparent, C_modemt_none, C_X25_flt), TCV_uil1p := C_rate_adaption_X31)			11.8.2.2 .1.5
71		local_BS3x_3100_X32_Tboth(ce2 : B_2)			
72		[ur = C_9600bs]			
73		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce2, modem, C_X25_flt))			11.8.2.2 .1.3 combine d with 11.8.2.2 .1.4, CE and structure without exact match
74		[ur <> C_9600bs]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
71		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_dontcare, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8or16kbs, C_parity_NA, ce2, modem, C_X25_flct))			11.8.2.2 .1.3 combine d with 11.8.2.2 .1.4, CE, IR and structure without exact match
72		local_selectCe			
73		[both]			
74		[(ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]			
75		(TCV_ce := C_transparent)			
76		[(ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]			
77		(TCV_ce := C_nottransparent)			
78		[NOT both]			
79		(TCV_ce := ce)			
80		local_pixitvaluechk			
81		[(ce <> C_transparent) AND (ce <> C_nottransparent) AND (NOT both)]		I	IXIT error
82		[(itc1 <> C_UDI) AND (itc1 <> C_3100Hz)]		I	IXIT error
83		[(sacp1 <> C_I440_450) AND (sacp1 <> C_X21) AND (sacp1 <> C_X32)]		I	IXIT error
		[(ur = C_1200bs) AND (sacp1 = C_X32)]		I	4.
		[C_Yes]			IXIT values OK, but combina tion not checked yet
<p>Detailed Comments : 1. The BS3x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.2.1.1, section 11.8.2.2.1.2, section 11.8.2.2.1.3, section 11.8.2.2.1.4 and section 11.8.2.2.1.5 of GSM 11.10 and section B.1.3.1.1, section B.1.3.1.2, section B.1.3.2.1, section B.1.3.2.2, section B.2.3.1 and section B.2.3.2 of GSM 07.01.</p> <p>2. validate IXIT values.</p> <p>3. generate SETUP.</p> <p>4. IXIT error, BS31 does not support X32.</p> <p>5. IXIT error, UDI non-X32 case has no non transparent mode.</p> <p>6. IXIT error, 3.1kHz non-X32 case has no non transparent mode.</p> <p>7. IXIT error, UDI X32 case has no transparent mode.</p> <p>8. IXIT error, 3.1kHz case has no X21 signalling access protocol.</p> <p>The algorithm for selecting parameters:</p> <p>IF (TSPX_BS_3x_T_NT)</p> <p>TCV_ce := C_nottransparent</p> <p>ELSE</p> <p>TCV_ce := TSPX_BS_3x_ce</p> <p>use (TCV_ce, TSPX_BS_3x_itc1, TSPX_BS_3x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO</p>					

Test Step Dynamic Behaviour

Test Step Name : BS3xMT(srv : SERVICES; more_itc, both, more_sacp : BOOLEAN; itc1, itc2, sacp1, sacp2 : B_3; ur : B_4; ce : B_2)

Group : Preambles/

Objective : To generate an MT SETUP message with appropriate Bcap for BS3x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_main			
2		+local_IFsetup			
3		local_main (TCV_srv := srv, TCV_ur := ur, TCV_ur2 := ur, TCV_ce := C_transparent)			
4		+local_bcap1			
5		(TCV_BcapMT1 := TCV_BcapMT2)			
6		[more_itc OR more_sacp OR (itc1 = C_3100Hz) AND (sacp1 = C_X32)]			
7		[more_itc]			
8		+local_bcap2			
9		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes)			2nd SETUP
10		[NOT more_itc]			
11		[itc1 = C_3100Hz]			
12		(TCV_itc2 := C_3100Hz)			
13		[more_sacp]			
14		+local_3100_1(sacp2)			
15		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_sacp2 := sacp2)			2nd SETUP
16		[NOT more_sacp]			
17		[sacp1 = C_I440_450]			no second BC
18		[sacp1 = C_X32]			
19		+local_3100_1(sacp1)			
20		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_sacp2 := sacp1)			2nd SETUP
21		[(sacp1 <> C_I440_450) AND (sacp1 <> C_X32)]		I	
22		[itc1 = C_UDI]			
23		[more_sacp]			
24		+local_UDI(sacp2)			
25		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_sacp2 := sacp2, TCV_itc2 := C_UDI)			2nd SETUP
26		[NOT more_sacp]			no second BC

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
27		[(NOT more_itc) AND (NOT more_sacp) AND ((NOT(itc1=C_3100Hz)) OR (NOT(sacp1=C_X32)))]			
		local_bcap1			
28		[itc1 = C_3100Hz]			
29		+local_3100(sacp1)			
30		(TCV_itc := C_3100Hz, TCV_sacp := sacp1)			
31		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02), TCV_sacp := sacp1)			1st SETUP
32		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			
33		[itc1 = C_UDI]			
34		+local_UDI(sacp1)			
35		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02), TCV_sacp := sacp1, TCV_itc := C_UDI)			
36		[sacp1 = C_X32]			
37		+Chmod(TCV_ChRate, C_nottransparent, ur, srv)			
38		[NOT (sacp1 = C_X32)]			
39		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			
40		[(itc1 <> C_3100Hz) AND (itc1 <> C_UDI)]		I	
		local_bcap2			
41		[itc2 = C_3100Hz]			
42		[more_sacp]			
43		+local_3100_1(sacp2)			
44		(TCV_itc2 := C_3100Hz, TCV_sacp2 := sacp2)			
45		[NOT more_sacp AND (sacp1 <> C_X21)]			
46		+local_3100_1(sacp1)			
47		(TCV_itc2 := C_3100Hz, TCV_sacp2 := sacp1)			
48		[NOT more_sacp AND (sacp1 = C_X21)]			no second BC
49		[itc2 = C_UDI]			
50		[more_sacp]			
51		+local_UDI(sacp2)			
52		(TCV_itc2 := C_UDI, TCV_sacp2 := sacp2)			
53		[NOT more_sacp]			
54		+local_UDI(sacp1)			
55		(TCV_itc2 := C_UDI, TCV_sacp2 := sacp1)			
56		[(itc2 <> C_3100Hz) AND (itc2 <> C_UDI)]		I	
		local_3100(sacp : B_3)			
57		[sacp = C_I440_450]			
58		+local_BS3x_3100			
59		[sacp = C_X32]			
60		[NOT (ur= C_1200bs)]			
61		[both OR (ce = C_nottransparent)]			
62		+local_BS3x_3100_X32_NT(C_nottransparen t)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
63		(TCV_ce := C_nottransparent)			
64		[NOT both AND (ce = C_transparent)]			
65		+local_BS3x_3100_X32_T			
66		[ur= C_1200bs]		I	BS31 not support X32
67		[(sacp <> C_I440_450) AND (sacp <> C_X32)]		I	
		local_3100_1(sacp : B_3)			
68		[sacp = C_I440_450]			
69		+local_BS3x_3100			
70		[sacp = C_X32]			
71		+local_BS3x_3100_X32_NT(C_BothT)			
72		[(sacp <> C_I440_450) AND (sacp <> C_X32)]		I	
		local_UDI(sacp : B_3)			
73		[sacp = C_I440_450]			
74		[ur = C_9600bs]			
75		+ltree_BS3x_UDI_I440_T(C_ir_16kbs)			
76		[ur <> C_9600bs]			
77		+ltree_BS3x_UDI_I440_T(C_ir_8kbs)			
78		[sacp = C_X21]			
79		[ur = C_9600bs]			
80		+ltree_BS3x_UDI_X21_T(C_ir_16kbs)			
81		[ur <> C_9600bs]			
82		+ltree_BS3x_UDI_X21_T(C_ir_8kbs)			
83		[sacp = C_X32]			
84		[ur <> C_1200bs]			
85		+ltree_BS3x_UDI_X32_NT			
86		[ur = C_1200bs]		I	
87		[(sacp <> C_I440_450) AND (sacp <> C_X21) AND (sacp <> C_X32)]		I	
		ltree_BS3x_3100_T(ir : B_2; modemt : B_5)			
88		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt))			11.8.1.2 .1.1
		ltree_BS3x_UDI_I440_T(ir : B_2)			
89		(TCV_BcapMT2 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.2 .1.2
		ltree_BS3x_UDI_X21_T(ir : B_2)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
90		(TCV_BcapMT2 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_X21, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none)) ltree_BS3x_3100_X32_T(ir : B_2; modemt : B_5)			11.8.1.2 .1.2
91		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt)) ltree_BS3x_3100_X32_NT(modemt : B_5; ce1 : B_2)			11.8.1.2 .1.3
92		(TCV_BcapMT2 := BcapX_MT(C_3100Hz, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce1, modemt, C_X25_flt)) ltree_BS3x_UDI_X32_NT			11.8.1.2 .1.4
93		(TCV_BcapMT2 := BcapX_MT(C_UDI, C_SDUIntegrity, C_nirr_nomeaning, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_notransparent, C_modemt_none, C_X25_flt)) local_BS3x_3100			11.8.1.2 .1.5
94		[ur = C_1200bs]			
95		+ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V22)			
96		[ur = C_2400bs]			
97		+ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V22bis)			
98		[ur = C_4800bs]			
99		+ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V32)			
100		[ur = C_9600bs]			
101		+ltree_BS3x_3100_T(C_ir_16kbs, C_modemt_V32)			
102		[(ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)] local_BS3x_3100_X32_NT(ce2 : B_2)		I	
103		[ur = C_2400bs]			
104		+ltree_BS3x_3100_X32_NT(C_modemt_V22bis, ce2)			
105		[(ur = C_4800bs) OR (ur = C_9600bs)]			
106		+ltree_BS3x_3100_X32_NT(C_modemt_V32, ce2)			
107		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)] local_BS3x_3100_X32_T		I	
108		[ur = C_2400bs]			
109		+ltree_BS3x_3100_X32_T(C_ir_8kbs, C_modemt_V22bis)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
110		[ur = C_4800bs]			
111		+ltree_BS3x_3100_X32_T(C_ir_8kbs, C_modemt_V32)			
112		[ur = C_9600bs]			
113		+ltree_BS3x_3100_X32_T(C_ir_16kbs, C_modemt_V32)			
114		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
		local_IFsetup			
115		[TCV_supported]			
116		(TCV_Null := OO_IFsetup_BS3x_MT(TCV_srv, TCV_itc, TCV_sacp))			
117		[NOT TCV_supported]			
118		[TCV_SpecialCase]			
119		START T_dly(C_T_Wait)			
120		?TIMEOUT T_dly			
121		[NOT TCV_SpecialCase]		I	Paramet er error

Detailed Comments : The algorithm for derivation of BS3x Bearer Capabilities :

The Bearer Capability for 1st SETUP (used for an MT call):

itc= TSPX_BS_3x_itc1

sacp= TSPX_BS_3x_sacp1

IF itc= 3.1Khz

IF sacp= I440 use coding of sec. 11.8.1.2.1.1 with (ce=T)

IF sacp= X32

IF TSPX_BS_3x_T_NT OR (TSPX_BS_3x_ce = NT)

use coding of sec. 11.8.1.2.1.4 with (ce= NT)

IF NOT TSPX_BS_3x_T_NT AND (TSPX_BS_3x_ce = T)

use coding of sec. 11.8.1.2.1.3 with (ce= T)

IF itc=udi

IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)

IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)

IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)

The derived 2nd Bearer Capability for 2nd SETUP (used for TC_11_1_ only):

Note: the 2nd BC is derived only IF

TSPX_BS_3x_more_itc OR TSPX_BS_3x_more_sacp OR

((TSPX_BS_3x_itc1 = 3.1kHz) AND (TSPX_BS_3x_sacp1 = X32))

IF TSPX_BS_3x_more_itc

itc= TSPX_BS_3x_itc2

IF itc= 3.1kHz

IF TSP_BS_3x_more_sacp

sacp= TSPX_BS_3x_sacp2

ELSE

sacp = TSPX_BS_3x_sacp1

IF sacp= I440 use coding of sec. 11.8.1.2.1.1 with (ce=T)

IF sacp= X32 use coding of sec. 11.8.1.2.1.4 with (ce=both/T)

IF itc= udi

IF TSP_BS_3x_more_sacp

sacp= TSPX_BS_3x_sacp2

IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)

IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)

IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)

ELSE

sacp= TSPX_BS_3x_sacp1

IF sacp=I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)

Test Step Dynamic Behaviour**Detailed Comments : ...**

```
IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)
ELSE
  itc= TSPX_BS_3x_itc1
  IF itc= 3.1kHz
    IF TSPX_BS_3x_more_sacp
      sacp= TSPX_BS_3x_sacp2
      IF sacp= I440
        use coding of sec. 11.8.1.2.1.1 with (ce=T)
      IF sacp= X32
        use coding of sec. 11.8.1.2.1.4 with (ce=both/T)
    ELSE
      sacp= TSPX_BS_3x_sacp1
      IF sacp= I440 no second Bearer Capability
      IF sacp= X32 use coding of sec. 11.8.1.2.1.4 with (ce=both/T)
  IF itc= udi
    IF TSP_BS_3x_more_sacp
      sacp= TSPX_BS_3x_sacp2
      IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)
      IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)
      IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)
    ELSE
      sacp= TSPX_BS_3x_sacp1
      IF sacp=I440 no second Bearer Capability
      IF sacp=X21 no second Bearer Capability
      IF sacp= X32 no second Bearer Capability
```

Test Step Dynamic Behaviour					
Test Step Name : BS4xMO(srv : SERVICES; ur : B_4; ce : B_2; both : BOOLEAN) Group : Preambles/ Objective : To generate an MO SETUP message with appropriate Bcap and LLC for BS4x service. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, TCV_ir := C_ir_16kbs)			
2		+local_pixitvaluechk			validate IXIT values
3		+local_selectCe			select a CE
4		+local_bcap			generate BC
5		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS2xOrBS4x_UDI, Hlcmp_AnyOrOmit))			generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_BS4x_MO(TCV_srv, TCV_ce, TCV_ChRate))			ask test operator to set up the MS
8		local_bcap			
9		[NOT both]			
10		[TCV_ce = C_nottransparent]			
11		+local_BS4x_UDI_NT(C_nottransparent)			
12		[TCV_ce = C_transparent]			CE:T only MS
13		[ur = C_9600bs]			
14		+local_BS4x_UDI_T(C_ir_16kbs)			
15		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
16		+local_BS4x_UDI_T(C_ir_8kbs)			
17		[both]			
18		[TCV_ce = C_transparent]			
19		+local_BS4x_UDI_Tboth(TCV_CE.TorBothTor BothNT)			
20		[(TCV_ce = C_nottransparent)]			
21		+local_BS4x_UDI_NT(TCV_CE.NTorBothTorB othNT)			
		local_BS4x_UDI_T(ir : B_2)			
		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, C_transparent, C_modemt_none), TCV_ir := ir)			11.8.2.3 .1.1
		local_BS4x_UDI_NT(ce1 : B_2)			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
23		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUIntegrity, C_nirr_dontcare, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare))			11.8.2.3 .1.2
24		[ur = C_9600bs]			
25		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUIntegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare))			11.8.2.3 .1.2
26		local_BS4x_UDI_Tboth(ce1 : B_2)			
27		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
28		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_dontcare, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare))			11.8.2.3 .1.2 combine d with 11.8.2.3 .1.1, CE, IR and structure without exact match
29		[ur = C_9600bs]			
30		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare))			11.8.2.3 .1.2 combine d with 11.8.2.3 .1.1, CE, IR and structure without exact match
31		local_pixitvaluechk			
32		[(ce <> C_transparent) AND (ce <> C_nottransparent) AND (NOT both)]		I	IXIT error
33		[C_Yes]			IXIT values OK
34		local_selectCe			
35		[both]			
36		[(ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		(TCV_ce := C_nottransparent)			
35		[(ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]			
36		(TCV_ce := C_transparent)			
37		[NOT both]			
38		(TCV_ce := ce)			
<p>Detailed Comments : The BS4x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.3.1.1 and section 11.8.2.3.1.2 of GSM 11.10 and section B.1.4 and section B.2.2.1 of GSM 07.01.</p> <p>The algorithm for selecting parameters:</p> <pre> IF (TSPX_BS_4x_T_NT) IF (user rate is one of the C_300bs, C_120075bs, C_4800bs) TCV_ce := C_nottransparent ELSE /* user rate is one of C_1200bs, C_2400bs, C_9600bs */ TCV_ce := C_transparent ELSE TCV_ce := TSPX_BS_4x_ce use (TCV_ce, TSPX_BS_4x_ur, svc) for OO_IFsetup_BS4x_MO </pre>					

Test Step Dynamic Behaviour					
<p>Test Step Name : BS5xMO(srv : SERVICES; ur : B_4)</p> <p>Group : Preambles/</p> <p>Objective : To generate an MO SETUP message with appropriate Bcap for BS5x service.</p> <p>Default : OtherEvents</p> <p>Comments :</p>					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur)			
2		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUIegrity, C_nirr_nomeaning, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_nottransparent, C_modemt_none, C_X25_flct))			11.8.2.4.1
3		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS5x, Hlcmp_AnyOrOmit))			
4		+Chmod(TCV_ChRate, C_nottransparent, ur, srv)			channel mode
5		(TCV_Null := OO_IFsetup_BS5x_MO(TCV_srv, TCV_ur, TCV_ChRate))			
<p>Detailed Comments : 1. Bearer Caoability is coded according to section 11.8.2.4.1 of GSM 11.10 ver 4.16</p> <p>2. low layer compatibility is coded according to section B.2.5 of GSM 07.01 ver 4.90</p>					

Test Step Dynamic Behaviour

Test Step Name : BS61or81MO(srv : SERVICES; async, both: BOOLEAN; a_ur1: B_4; ce : B_2; sync : BOOLEAN; s_ur1: B_4; ri : B_8)

Group : Preambles/

Objective : To get a MO SETUP message with right BC IE and LLC for BS61 or BS81 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, TCV_ir := C_ir_8kbs, TCV_MODEM := V22bisOrV26ter)			
2		+local_pixitvaluechk			1.
3		+local_selectSaAndCe			2.
4		+local_bcap			generate BC
5		+local_setupmsg			generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			
7		(TCV_Null := OO_IFsetup_BS61orBS81_MO(TCV_srv, TCV_ur, TCV_sa, TCV_ce, TCV_ChRate))			
8		local_bcap			
9		[TCV_sa = C_Synchronous]			
10		[TCV_ur = C_1200bs]			
11		+local_BS61or81_S_T(C_ir_8kbs, C_1200bs, C_modemt_V22)			
12		[TCV_ur = C_2400bs]			
13		+local_BS61or81_S_T(C_ir_8kbs, C_2400bs, TCV_MODEM.V22bisOrV26ter)			
14		[TCV_ur = C_4800bs]			
15		+local_BS61or81_S_T(C_ir_8kbs, C_4800bs, C_modemt_V32)			
16		[TCV_ur = C_9600bs]			
17		+local_BS61or81_S_T(C_ir_16kbs, C_9600bs, C_modemt_V32)			
18		(TCV_ir := C_ir_16kbs)			
19		[TCV_sa = C_Asynchronous]			
20		[(TCV_ce = C_transparent) AND (NOT both)]			CE:T only MS
21		+local_BS61or81_A_T(TCV_ur)			
22		[(TCV_ce = C_nottransparent) AND (NOT both)]			CE:NT only MS
23		+local_BS61or81_A_NT(TCV_ur, C_nottransparent, C_SDUIntegrity, C_nirr_dontcare, C_ir_16kbs)			
24		[(TCV_ce = C_nottransparent) AND both]			
25		+local_BS61or81_A_NT(TCV_ur, TCV_CE.NTorBothTorBothNT, C_SDUIntegrity, C_nirr_dontcare, C_ir_16kbs)			
25		[(TCV_ce = C_transparent) AND both]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		+local_BS61or81_A_NT(TCV_ur, TCV_CE.TorBothTorBothNT, C_struc_dontchk, C_nirr_dontcare, C_ir_8or16kbs)			
		local_BS61or81_A_T(ur : B_4)			
27		[ur = C_300bs]			
28		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_V21), TCV_modemt := C_modemt_V21)			11.8.2.5 .1
29		[ur = C_1200bs]			
30		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_V22), TCV_modemt := C_modemt_V22)			11.8.2.5 .1
31		[ur = C_120075bs]			
32		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_V23), TCV_modemt := C_modemt_V23)			11.8.2.5 .1
33		[ur = C_2400bs]			
34		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, TCV_MODEM.V22bisOrV26ter), TCV_modemt := TCV_MODEM.V22bisOrV26ter)			11.8.2.5 .1
35		[ur = C_4800bs]			
36		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_V32), TCV_modemt := C_modemt_V32)			11.8.2.5 .1
37		[ur = C_9600bs]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, C_modemt_V32), TCV_modemt := C_modemt_V32)			11.8.2.5 .1
39		(TCV_ir := C_ir_16kbs)			
40		local_BS61or81_A_NT(ur : B_4; ce : B_2; struc : B_2 ; nirr :B_1; ir : B_2)			
41		(TCV_ir := C_ir_16kbs)			
42		[ur = C_300bs]			
43		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, C_modemt_V21, C_uil2p_dontcare), TCV_modemt := C_modemt_V21)			11.8.2.5 .2
44		[ur = C_1200bs]			
45		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, C_modemt_V22, C_uil2p_dontcare), TCV_modemt := C_modemt_V22)			11.8.2.5 .2
46		[ur = C_120075bs]			
47		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, C_modemt_V23, C_uil2p_dontcare), TCV_modemt := C_modemt_V23)			11.8.2.5 .2
48		[ur = C_2400bs]			
49		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, TCV_MODEM.V22bisOrV26ter, C_uil2p_dontcare), TCV_modemt := TCV_MODEM.V22bisOrV26ter)			11.8.2.5 .2
50		[ur = C_4800bs]			
51		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, C_modemt_V32, C_uil2p_dontcare), TCV_modemt := C_modemt_V32)			11.8.2.5 .2
		[ur = C_9600bs]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, C_nirr_nomeaning, C_no_rate_adaption, C_l440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce, C_modemt_V32, C_uil2p_dontcare), TCV_modemt := C_modemt_V32)			11.8.2.5.2
53		local_BS61or81_S_T(ir : B_2; ur: B_4; modemt : B_5)			
53		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_l440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt), TCV_modemt := modemt)			11.8.2.5.3
		local_pixitvaluechk			
54		[(ce <> C_transparent) AND (ce <> C_nottransparent) AND (NOT both) AND async]		I	IXIT error
55		[(a_ur1 <> C_300bs) AND (a_ur1 <> C_1200bs) AND (a_ur1 <> C_2400bs) AND (a_ur1 <> C_4800bs) AND (a_ur1 <> C_9600bs) AND (a_ur1 <> C_120075bs) AND async]		I	IXIT error
56		[(s_ur1 <> C_1200bs) AND (s_ur1 <> C_2400bs) AND (s_ur1 <> C_4800bs) AND (s_ur1 <> C_9600bs) AND sync]		I	IXIT error
57		[C_Yes]			IXIT values OK
		local_selectSaAndCe			
58		[async]			3.
59		(TCV_sa := C_Asynchronous, TCV_ur := a_ur1)			
60		[both]			
61		[(a_ur1 = C_300bs) OR (a_ur1 = C_120075bs) OR (a_ur1 = C_4800bs)]			
62		(TCV_ce := C_nottransparent)			
63		[(a_ur1 = C_1200bs) OR (a_ur1 = C_2400bs) OR (a_ur1 = C_9600bs)]			
64		(TCV_ce := C_transparent)			
65		[NOT both]			
66		(TCV_ce := ce)			
67		[sync]			
68		(TCV_sa := C_Synchronous, TCV_ce := C_transparent, TCV_ur := s_ur1)			
		local_setupmsg			
69		[TCV_sa = C_Asynchronous]			
70		(TCV_Setup_mo := Setup_11_3100(ri, Bcap_Speech_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_BS2xOrBS61aOrBS81a_3100, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))			
71		[TCV_sa = C_Synchronous]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
72		(TCV_Setup_mo := Setup_11_3100(ri, Bcap_Speech_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_BS3xOrBS61sOrBS81s_3100, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))			
<p>Detailed Comments : 1. validate IXIT values. 2. select sync or async mode and corresponding CE. 3. If the MS supports both synchronous and asynchronous mode, selete the asynchronous mode. 4. The BS61 or BS81 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.5.1, section 11.8.2.5.2 and section 11.8.2.5.3 of GSM 11.10 and section B.1.6.1, section B.1.6.2.1, section B.1.6.2.2, section B.2.2.2 and section B.2.3.2 of GSM 07.01.</p> <p>The algorithm for selecting parameters for BS61 basice service: IF (TSPX_BS_61_A) TCV_sa := C_Asynchronous IF (TSPX_BS_61_A_ur1_T_NT) TCV_ce := C_nottransparent ELSE TCV_ce := TSPX_BS_61_A_ur1_ce use (TCV_sa, TCV_ce, TSPX_BS_61_A_ur1, svc) for OO_IFsetup_BS61orBS81_MO ELSE TCV_sa := C_Synchronous use (TCV_sa, C_transparent, TSPX_BS_61_S_ur1, svc) for OO_IFsetup_BS61orBS81_MO</p> <p>The algorithm for selecting parameters for BS61 basice service is the same as above except using corresponding IXIT parameters.</p>					

Test Step Dynamic Behaviour

Test Step Name : BS61or81MT(srv : SERVICES; async, t_nt_ur1, t_nt_ur2, a_more_ur, sync, s_more_ur : BOOLEAN;
a_ur1, a_ur2, s_ur1, s_ur2: B_4; ri : B_8; ce : B_2)

Group : Preambles/

Objective : To get a MT SETUP message with right BC IE for BS61 or BS81 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_main			
2		+local_IFsetup			
3		local_main (TCV_srv := srv)			
4		(TCV_BcapMT1 := Bcap_Speech_MT)			
5		[async]			If asynchr o
6		+local_bcapa			
7		(TCV_Setup_mt := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := a_ur1, TCV_sa := C_Asynchronous)			1st SETUP
8		+Chmod(TCV_ChRate, TCV_ce, a_ur1, srv)			2nd ch mode
9		(TCV_ChMod.mode := C_ChMod_r)			Speech mode
10		[sync]			
11		+local_bcap2S(s_ur1)			
12		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := s_ur1, TCV_sa2 := C_Synchronous)			2nd SETUP
13		[a_more_ur]			
14		[t_nt_ur2]			
15		+local_bcap2A(a_ur2, C_transparent)			
16		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := a_ur2, TCV_sa2 := C_Asynchronous)			2nd SETUP
17		[NOT t_nt_ur2]			
18		+local_bcap2A(a_ur2, C_BothT)			
19		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := a_ur2, TCV_sa2 := C_Asynchronous)			2nd SETUP
20		[NOT a_more_ur]			
21		[t_nt_ur1]			
22		+local_bcap2A(a_ur1, C_transparent)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)			2nd SETUP
24		[NOT t_nt_ur1]			
25		+local_bcap2A(a_ur1, C_BothT)			
26		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)			2nd SETUP
27		[sync]			If synchro
28		+local_bcap2S(s_ur1)			
29		(TCV_Setup_mt := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := s_ur1, TCV_sa := C_Synchronous)			1st SETUP
30		+Chmod(TCV_ChRate, C_transparent, s_ur1, srv)			2nd ch mode
31		(TCV_ChMod.mode := C_ChMod_r)			Speech mode
32		[s_more_ur]			
33		+local_bcap2S(s_ur2)			
34		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := s_ur1, TCV_sa2 := C_Synchronous)			2nd SETUP
35		[NOT s_more_ur]			no second BC
		local_bcap2A(ur : B_4; ce2: B_2)			
36		[ce2 = C_transparent]			
37		[ur = C_300bs]			
38		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V21)			
39		[ur = C_1200bs]			
40		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V22)			
41		[ur = C_2400bs]			
42		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V22bis)			
43		[ur = C_4800bs]			
44		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V32)			
45		[ur = C_9600bs]			
46		+local_BS61or81_A_T(C_ir_16kbs, ur, C_modemt_V32)			
47		[(ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48		[ce2 = C_BothT]			
49		[ur = C_300bs]			
50		+local_BS61or81_A_NT(ur, C_modemt_V21, C_BothT)			
51		[ur = C_1200bs]			
52		+local_BS61or81_A_NT(ur, C_modemt_V22, C_BothT)			
53		[ur = C_2400bs]			
54		+local_BS61or81_A_NT(ur, C_modemt_V22bis, C_BothT)			
55		[ur = C_4800bs]			
56		+local_BS61or81_A_NT(ur, C_modemt_V32, C_BothT)			
57		[ur = C_9600bs]			
58		+local_BS61or81_A_NT(ur, C_modemt_V32, C_BothT)			
59		[(ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
60		[ce2 = C_nottransparent]			
61		[ur = C_300bs]			
62		+local_BS61or81_A_NT(ur, C_modemt_V21, C_nottransparent)			
63		[ur = C_1200bs]			
64		+local_BS61or81_A_NT(ur, C_modemt_V22, C_nottransparent)			
65		[ur = C_2400bs]			
66		+local_BS61or81_A_NT(ur, C_modemt_V22bis, C_nottransparent)			
67		[ur = C_4800bs]			
68		+local_BS61or81_A_NT(ur, C_modemt_V32, C_nottransparent)			
69		[ur = C_9600bs]			
70		+local_BS61or81_A_NT(ur, C_modemt_V32, C_nottransparent)			
71		[(ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
72		[ce2 = C_BothNT] local_bcap2S(ur : B_4)		I	
73		[ur = C_1200bs]			
74		+local_BS61or81_S_T(C_ir_8kbs, ur, C_modemt_V22)			
75		[ur = C_2400bs]			
76		+local_BS61or81_S_T(C_ir_8kbs, ur, C_modemt_V22bis)			
77		[ur = C_4800bs]			
78		+local_BS61or81_S_T(C_ir_8kbs, ur, C_modemt_V32)			
79		[ur = C_9600bs]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
80		+local_BS61or81_S_T(C_ir_16kbs, ur, C_modemt_V32)			
81		[(ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
82		local_BS61or81_A_T(ir : B_2; ur : B_4; modemt : B_5) (TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, ir, TSPX_TE_parity, C_transparent, modemt)) local_BS61or81_A_NT(ur : B_4; modemt : B_5; cel : B_2)			11.8.1.3 .1
83		[TSPX_TE_FLCT = C_Outband]			
84		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modemt))			11.8.1.3 .2
85		[TSPX_TE_FLCT = C_Inband]			
86		(TCV_BcapMT2 := BcapX_MT(C_3100Hz, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modemt, C_ISO6429))			11.8.1.3 .2
87		[TSPX_TE_FLCT = C_Nocontrol]			
88		(TCV_BcapMT2 := BcapX_MT(C_3100Hz, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modemt, C_COPnoFLCT))			11.8.1.3 .2
89		[(TSPX_TE_FLCT <> C_Outband) AND (TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol)]		I	
90		local_BS61or81_S_T(ir : B_2; ur : B_4; modemt : B_5) (TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt)) local_bcapa			11.8.1.3 .3
91		[t_nt_ur1 OR (ce = C_nottransparent)]			
92		+local_bcap2A(a_ur1, C_nottransparent)			
93		(TCV_ce := C_nottransparent)			
94		[NOT t_nt_ur1 AND (ce = C_transparent)]			
95		+local_bcap2A(a_ur1, C_transparent)			
96		(TCV_ce := C_transparent)			
97		local_IFsetup [TCV_supported]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
98		(TCV_Null := OO_IFsetup_BS61orBS81_MT(TCV_srv, TCV_ur, TCV_sa))			
99		[NOT TCV_supported]			
100		[TCV_SpecialCase]			
101		START T_dly(C_T_Wait)			
102		?TIMEOUT T_dly			
103		[NOT TCV_SpecialCase]		I	Parameter error

Detailed Comments : The algorithm for derivation of BS61 Bearer Capabilities:

The data Bearer Capability for 1st SETUP (used for an MT call):

IF TSPX_BS_61_A

ur= TSPX_BS_61_A_ur1

IF TSPX_BS_61_A_ur1_T_NT OR (TSPX_BS_61_A_ur1_ce = NT)

use coding of sec. 11.8.1.3.2 with (ur & ce=NT)

ELSE

use coding of sec. 11.8.1.3.1 with (ur & ce=T)

ELSE

IF TSPX_BS_61_S

ur= TSPX_BS_61_S_ur1 use coding of sec. 11.8.1.3.3 with (ur & ce=T)

The 2nd Bearer Capability for second SETUP (used for TC_11_1_1):

Note: the 2nd BC is derived IF

(TSPX_BS_61_A OR (TSPX_BS_61_S AND TSPX_BS_61_S_more_ur))

IF TSPX_BS_61_A AND TSPX_BS_61_S

ur= TSPX_BS_61_S_ur1 use coding of sec. 11.8.1.3.3 with (ur & ce= T)

ELSE

IF TSPX_BS_61_A_more_ur AND TSPX_BS_61_A

ur= TSPX_BS_61_A_ur2

IF TSPX_BS_61_A_ur2_T_NT

use coding of sec. 11.8.1.3.1 with (ur & ce=T)

ELSE

use coding of sec. 11.8.1.3.2 with (ur & ce=both/T)

ELSE

IF TSPX_BS_61_S AND TSPX_BS_61_S_more_ur

ur=TSPX_BS_61_S_ur2

use coding of sec. 11.8.1.3.3 with (ur & ce= T)

ELSE

IF TSPX_BS_61_A

ur= TSPX_BS_61_A_ur1

IF TSPX_BS_61_A_ur1_T_NT

use coding of sec. 11.8.1.3.1 with (ur & ce=T)

ELSE

use coding of sec. 11.8.1.3.2 with (ur & ce=both/T)

The algorithm for derivation of BS81 Bearer Capabilities is same as above except all parameters are changed to corresponding BS81's parameters.

Test Step Dynamic Behaviour

Test Step Name : Chmod(rate : RATE; ce : B_2; ur : B_4; svc : SERVICES)

Group : Preambles/

Objective : To assign correct values to the test case variables TCV_ChMod and TCV_ChModb.

Default : OtherEvents

Comments : The rules for assignment are in Table 10-1 of GSM 11.10 section 10.3. If the value for ce is "BothT", the rule for transparent is used. If the value for ce is "BothNT", the rule for non transparent is used. That means the preferred value will be used in test configuration.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_tree			
2		[(svc = C_AltSpchData) OR (svc = C_SpchData) OR (svc = C_AltSpchFax)]			dual mode call
3		(TCV_ChMod.mode := C_ChMod_r)			
4		[(svc<> C_AltSpchData) AND (svc <> C_SpchData) AND (svc <> C_AltSpchFax)]			
		local_tree			
5		[((ce = C_nottransparent) OR (ce = C_BothNT)) AND (rate = C_Full)]			
6		(TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.mode := C_ChMod_12k)			
7		[((ce = C_nottransparent) OR (ce = C_BothNT)) AND (rate = C_Half)]			
8		[ur <> C_9600bs]			
9		(TCV_ChMod.mode := C_ChMod_6k, TCV_ChModb.mode := C_ChMod_6k)			
10		[ur = C_9600bs]		I	not applicabl e
11		[(ce = C_transparent) OR (ce = C_BothT)]			
12		[(ur = C_9600bs) AND (rate = C_Full)]			
13		(TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.mode := C_ChMod_12k)			
14		[ur = C_4800bs]			
15		(TCV_ChMod.mode := C_ChMod_6k, TCV_ChModb.mode := C_ChMod_6k)			
16		[(ur <> C_4800bs) AND (ur <> C_9600bs)]			
17		(TCV_ChMod.mode := C_ChMod_3k, TCV_ChModb.mode := C_ChMod_3k)			
18		[(ur = C_9600bs) AND (rate = C_Half)]		I	not applicabl e

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Est_MO_Call_init_Asci (par1: OCTETSTRING; mag, mad : MA; ta : TA; tsc1 : B_3; nfrqg, nfrqd : INTEGER)

Group : Preambles/

Objective : To initiate a mobile originating VBS or VGCS call.

Default : OtherEvents

Comments : The test case variable TCV_Mt holds the message type of the received SETUP msg.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_cellid:=C_CellA)			
2		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
3		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
4		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
5		+localtree_ia(par1)			
6		L?DL_EstInCmsRq	CMSerReq(CMSerReq_01)		
7		ACTIVATE(OtherEvents)			Restore Normal default
8		(TCV_Null := OM_NoL2Ack(2, TCV_ch))			
9		+Cipherring_on(TCV_ch)			
10		L?DL_DatInSetup_asci (TCV_Mt := DL_DatInSetup_asci.msg.mt)	SetupRcv_Asci (SetupInd_GCorVB)		
11		localtree_ia(par_chn: OCTETSTRING)			
12		[par_chn = C_CHTCHF_NonFH]			
13		(TCV_Tchtype := '00001'B)			
14		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
15		[par_chn = C_CHSDCCH4_NonFH]			
16		(TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5))			
17		+ltree_immass_nfh(TCV_chdescr_arfcn, tsc1)			
18		[par_chn = C_CHSDCCH8_NonFH]			
19		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
20		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
21		[par_chn = C_CHTCHF_FH]			
22		(TCV_Tchtype := '00001'B)			
23		+ltree_immass_fh(nfrqg, nfrqd)			
24		[par_chn = C_CHTCHH_FH]			
25		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
26		+ltree_immass_fh(nfrqg, nfrqd)			
27		[par_chn = C_CHTCHH_NonFH]			
28		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
29		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
30		[par_chn = C_CHSDCCH8_FH]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
31		+ltree_immass_fh(nfrqg, nfrqd)			
32		[C_Yes]			
		ltree_immass_fh(frqnog, frqnod : INTEGER)			
33		[TSPC_PGSM OR TSPC_EGSM]			
34		(TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnog), 6),			1.
		TCV_iel := mag.iel)			
35		LIDL_UdatRqImm	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(TSPX_HSN, 6), ta, mag, TCV_iel))		
36		[TSPC_DCS]			
37		(TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnod), 6),			1.
		TCV_iel := mad.iel)			
38		LIDL_UdatRqImm	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(TSPX_HSN, 6), ta, mad, TCV_iel))		
39		ltree_immass_nfh(arfcn : INTEGER; tsc : B_3)			
		LIDL_UdatRqImm	ImmAss(TCV_agch, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_ia_ts, tsc, ta, arfcn, C_normal_paging))		
Detailed Comments : 1. To make the MAIO is within 0 ... N-1, where N is the number of frequencies of MA. "frqnog" and "frqnod" are number of of frequencies of MA for GSM and DCS respectively.					

Test Step Dynamic Behaviour

Test Step Name : IdleUpdated(par_bspwr : INTEGER; activ_cell : CellID; sch, bcch : LOGICCH; acttype : BITSTRING; slot, slot2, slot3, slot4 : SN; tsc : TSC; t, retr, neci, att : INTEGER; ta : TA; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgs, cchddcs : CCHD; crh, mtmcgs, mtmcdds : INTEGER; bcchflgs, bcchfldcs, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; StartType : INTEGER; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; imsi : HEXSTRING; sysinfo : INTEGER; nccp : NCCP)

Group : Preambles/

Objective : To ensure that the SIM is either updated to the initial conditions and the MS with CKSN valid, TMSI valid and idle updated in cell A, B or C; or idle updated without TMSI; or totally not updated and all LAI information deleted.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Cnt2 := 1)			
2		REPEAT l_idleUpdated UNTIL [TCV_Cnt2 = 0]			
3		l_idleUpdated (TCV_Cnt2 := 0)			Only once
4		(TCV_slot := slot, TCV_tsc := tsc, TCV_Ccd0H := CntrlChDscr(att, babr, C_cch_1Comb, bpm, t3212))			
5		+MM_PwrOrSimOff (C_SIMneedRmv)			
6		+Varinit_fix (activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, TCV_Ccd0H, imsi)			
7		+ltree_chconf(C_cch_1Comb)			Config LT
8		+localtree1			
9		localtree1 +ltree_sysinfo(1, C_cch_1Comb)			ATT= '1'B
10		+MM_PwrOrSimOn (C_SIMneedRmv)			
11		+localtree_Lup_Auth localtree_Lup_Auth			
12		START T_dly(C_T_Wait1stChReq)			
13		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		Any channel request PDU
14		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
15		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		
16		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))		Any location update type
17		ACTIVATE(OtherEvents)			Restore Normal default
18		[StartType = C_Start_Rej]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		LIDL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_LAnotallowed))		Delete LAI, tmsi, cksn
20		+PostMainLinkRel(TCV_ch)			Release Ch
21		+MM_PwrOrSimOff (C_SIMneedRmv)			
22		+localtree2			
23		[StartType = C_Start_Imsi]			
24		+Authentication(TCV_ch, cksn, rand)			
25		LIDL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(Milmsi_01iei, mcc, mnc, TCV_lac))		Location Accept with IMSI
26		+PostMainLinkRel(TCV_ch)			Release Ch
27		+localtree2			
28		[(StartType = C_Start_Tmsi) OR (StartType = C_Start_TmsiOff)]			
29		+Authentication(TCV_ch, cksn, rand)			
30		LIDL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_01iei, mcc, mnc, TCV_lac))		Location Accept with TMSI
31		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)		
32		+PostMainLinkRel(TCV_ch)			Release Ch
33		+localtree2			
34		[StartType = C_Start_PLMNnot]			
35		LIDL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_plmn_not))		Delete LAI, tmsi, cksn
36		+PostMainLinkRel(TCV_ch)			Release Ch
37		+localtree2			
38		[(StartType <> C_Start_Rej) AND (StartType <> C_Start_Tmsi) AND (StartType <> C_Start_TmsiOff) AND (StartType <> C_Start_Imsi) AND (StartType <> C_Start_PLMNnot)]		I	
39		?TIMEOUT T_dly			
40		+ltree_rmvPLMNfbdnlist			
		localtree2			
41		[StartType <> C_Start_TmsiOff]			
42		[cch_con <> C_cch_1Comb]			If non combine d
43		+localtree3			
44		+ltree_PgReorg			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
45		[(cch_con = C_cch_1Comb) AND (att = 0)]			If combined, ATT change
46		+ltree_sysinfo(0, C_cch_1Comb)			ATT=0
47		+ltree_PgReorg			
48		[(cch_con = C_cch_1Comb) AND (att = 1)]			If combined, ATT nochange
49		[StartType = C_Start_TmsiOff]			
50		+lmsiDetach (MiTmsi_01, ta, C_SIMneedRmv)			Switch off, detach
51		[cch_con <> C_cch_1Comb]			If non combined
52		+localtree3			
53		[(cch_con = C_cch_1Comb) AND (att = 0)]			If combined
54		+ltree_sysinfo(0, C_cch_1Comb)			ATT=0
55		[(cch_con = C_cch_1Comb) AND (att = 1)]			If combined, ATT nochange
56		localtree3 (TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
57		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, TCV_Ccd0H, imsi)			
58		+ltree_chconf (cch_con)			Config LT
59		+ltree_sysinfo(att, cch_con)			
60		ltree_PgReorg (TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Reorg))			
61		START T_dly(5000)			
62		?TIMEOUT T_dly			
63		(TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Norm))			
64		ltree_sysinfo(attach : INTEGER; con_ch : B_3) [activ_cell = C_CellA]			
65		+SysInfoSending(attach, con_ch)			S11-4, cellA
66		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)			
67		[con_ch = C_cch_1Comb]			If combined

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
68		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			SI5, 6 on SACCH/ C4, cell A
69		[con_ch <> C_cch_1Comb]			
70		+ltree_sysinfo_other(attach)			More SIs, cellA
71		[activ_cell = C_CellB]			
72		+SysInfoSending(attach, con_ch)			SI1–4, cellB
73		(TCV_Ccd0B := TCV_Ccd0H, TCV_sacch_B := TCV_sacch, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			SI5, 6 on SACCH/ C4, cell B
74		[con_ch = C_cch_1Comb]			If combine d
75		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			SI5, 6 on SACCH/ C4, cell A
76		[con_ch <> C_cch_1Comb]			No more SIs, cell B
77		[activ_cell = C_CellC]			
78		+SysInfoSending(attach, con_ch)			SI1–4, cellC
79		(TCV_Ccd0C := TCV_Ccd0H, TCV_sacch_C := TCV_sacch, TCV_sysinfo5_C := TCV_sysinfo5, TCV_sysinfo6_C := TCV_sysinfo6)			
80		[con_ch = C_cch_1Comb]			If combine d
81		+SysInfo_SacchSending(TCV_sacch_C, TCV_sysinfo5_C, TCV_sysinfo6_C)			SI5, 6 on SACCH/ C4, cell C
82		[con_ch <> C_cch_1Comb]			No more SIs, cell C
83		SysInfoSending(attachb : INTEGER; con_chs : B_3)			
84		[sysinfofb = C_Test_fh] +SysInfoSending_fh(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, cchdgsm, cchddcs, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp)			Hopping
85		[sysinfofb = C_Test_nfh]			Non hopping

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
86		+SysInfoSending_nfh(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs, Re, bcc, ncc, nccp)			
87		[sysinfonb = C_Test_egsm]			EGSM
88		+SysInfoSending_e(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, cchdgs, crh, mtmcgsm, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp)			
89		[sysinfonb = C_Test_cbms]			CBMS
90		+SysInfoSending_cbms(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp, subch)			
		ltree_chconf(conf : B_3)			
91		[activ_cell = C_CellA]			
92		+ltree_chconf_A(conf)			Config LT
93		[activ_cell = C_CellB]			
94		+ltree_chconf_B(conf)			Config LT
95		[activ_cell = C_CellC]			
96		+ltree_chconf_C(conf)			Config LT
		ltree_chconf_A(conf_a : B_3)			
97		[conf_a = C_cch_1nonComb]			
98		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 non combine d CCCH, cell A
99		(TCV_Upd := C_NotCombined)			
100		[conf_a = C_cch_1Comb]			
101		[sysinfonb <> C_Test_cbms]			
102		+CombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combine d CCCH, cell A
103		(TCV_Upd := C_Combined)			
104		[sysinfonb = C_Test_cbms]			
105		+CombinedBCCH_A_CBMS(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combine d CCCH + CBMS, cell A
106		(TCV_Upd := C_Combined)			
107		[conf_a = C_cch_2nonComb]			2 CCCHs

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
108		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdds, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A
109		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
110		(TCV_Upd := C_NotCombined)			
111		[conf_a = C_cch_3nonComb]			
112		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdds, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A
113		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
114		+NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combine d CCCH, cell A
115		(TCV_Upd := C_NotCombined)			
116		[conf_a = C_cch_4nonComb]			
117		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdds, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A
118		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
119		+NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combine d CCCH, cell A
120		+NonCombinedBCCH_A_4(acttype, slot4, tsc, ta, babr, conf_a, bpm)			4th non combine d CCCH, cell A
121		(TCV_Upd := C_NotCombined)			
122		[(conf_a <> C_cch_1nonComb) AND (conf_a <> C_cch_2nonComb) AND (conf_a <> C_cch_3nonComb) AND (conf_a <> C_cch_4nonComb) AND (conf_a <> C_cch_1Comb)]		I	A wrong CCCH– CONF value, cell A
123		ltree_chconf_B(conf_b : B_3) [conf_b = C_cch_1nonComb]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
124		+NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)			1 non combine d CCCH, cell B
125		(TCV_Upd := C_NotCombined)			
126		[conf_b = C_cch_1Comb]			
127		+CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)			1 combine d CCCH, cell B
128		(TCV_Upd := C_Combined)			
129		[(conf_b <> C_cch_1nonComb) AND (conf_b <> C_cch_1Comb)]		I	A wrong CCCH–CONF value, cell B
		ltree_chconf_C(conf_c : B_3)			
130		[conf_c = C_cch_1Comb]			
131		+CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_c, bpm)			1 combine d CCCH, cell C
132		(TCV_Upd := C_Combined)			
133		[conf_c <> C_cch_1Comb]		I	
		ltree_sysinfo_other(attach : INTEGER)			
134		[(cch_con = C_cch_1nonComb) OR (cch_con = C_cch_1Comb)]			
135		[cch_con = C_cch_2nonComb]			
136		+SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 2nd CCCH
137		[cch_con = C_cch_3nonComb]			
138		+SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 2nd CCCH
139		+SysInfoSending_fh(sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 3rd CCCH
140		[cch_con = C_cch_4nonComb]			
141		+SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 2nd CCCH

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
142		+SysInfoSending_fh(sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 3rd CCCH
143		+SysInfoSending_fh(sch, C_BCCH_A_4, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 4th CCCH
144		ltree_rmvPLMNfbdnlist (TCV_Null := OO_PLMNselModeMan())			
145		(TCV_Null := OO_SelPLMN(mnc))			
146		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		Any channel request PDU
147		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
148		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		
149		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))		Any location update type
150		ACTIVATE(OtherEvents)			Restore Normal default
151		[StartType = C_Start_PLMNnot]			The PLMN is already in forbidden list on short SIM
152		L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtReq_01(C_rc_plmn_not))		Delete LAI, tmsi, cksn, PLMN still in list
153		+PostMainLinkRel(TCV_ch)			Release Ch
154		(TCV_Null := OO_PLMNselModeAuto())			
155		[StartType <> C_Start_PLMNnot]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
156		LIDL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_r02iei, mcc, mnc, TCV_lac))		Location Accept with no TMSI
157		+PostMainLinkRel(TCV_ch)			Release Ch
158		(TCV_Null := OO_PLMNselModeAuto())			
159		(TCV_Null := OM_StopCell(activ_cell))			
160		(TCV_Cnt2 := 1)			2nd time

Detailed Comments	Formal Parameter Type	Comments & Explanations	Possible values
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par_bspwr	INTEGER	Base station power level	C_E_default, C_E_suitable
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activ_cell	CellID	Activated cell identity	C_CellA, C_CellB, C_CellC
1	1	1	1
1	2	1	1
1	3	1	1
1	4	1	1
1	5	1	1
1	6	1	1
1	7	1	1
1	8	1	1
1	9	1	1
1	10	1	1
1	11	1	1
1	12	1	1
1	13	1	1
1	14	1	1
1	15	1	1
1	16	1	1
1	17	1	1
1	18	1	1
1	19	1	1
1	20	1	1
1	21	1	1
1	22	1	1
1	23	1	1
1	24	1	1
1	25	1	1
1	26	1	1
1	27	1	1
1	28	1	1
1	29	1	1
1	30	1	1
1	31	1	1
1	32	1	1
1	33	1	1
1	34	1	1
1	35	1	1
1	36	1	1
1	37	1	1
1	38	1	1
1	39	1	1
1	40	1	1
1	41	1	1
1	42	1	1
1	43	1	1
1	44	1	1
1	45	1	1
1	46	1	1
1	47	1	1
1	48	1	1
1	49	1	1
1	50	1	1
1	51	1	1
1	52	1	1
1	53	1	1
1	54	1	1
1	55	1	1
1	56	1	1
1	57	1	1
1	58	1	1
1	59	1	1
1	60	1	1
1	61	1	1
1	62	1	1
1	63	1	1
1	64	1	1
1	65	1	1
1	66	1	1
1	67	1	1
1	68	1	1
1	69	1	1
1	70	1	1
1	71	1	1
1	72	1	1
1	73	1	1
1	74	1	1
1	75	1	1
1	76	1	1
1	77	1	1
1	78	1	1
1	79	1	1
1	80	1	1
1	81	1	1
1	82	1	1
1	83	1	1
1	84	1	1
1	85	1	1
1	86	1	1
1	87	1	1
1	88	1	1
1	89	1	1
1	90	1	1
1	91	1	1
1	92	1	1
1	93	1	1
1	94	1	1
1	95	1	1
1	96	1	1
1	97	1	1
1	98	1	1
1	99	1	1
1	100	1	1
1	101	1	1
1	102	1	1
1	103	1	1
1	104	1	1
1	105	1	1
1	106	1	1
1	107	1	1
1	108	1	1
1	109	1	1
1	110	1	1
1	111	1	1
1	112	1	1

sch	LOGICCH	Sync. channel identity	
	If formal para	activ_cell = C_CellA,	C_SCH_A
	If formal para	activ_cell = C_CellB,	C_SCH_B
	If formal para	activ_cell = C_CellC,	C_SCH_C

bccch	LOGICCH	1st broadcast channel id	
	If formal	para activ_cell = C_CellA,	C_BCCH_A_1
	If formal	para activ_cell = C_CellB,	C_BCCH_B_1
	If formal	para activ_cell = C_CellC,	C_BCCH_C_1

acttype	BITSTRING	Type for activation of a channel	C_Immass
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slot	SN	Slot number for the 1st slot	C_S0
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slot2	SN	Slot number for the 2nd slot	
		In case of 2 or 3 or 4 non combined CCCH	C_S2
		Otherwise (1 combined or 1 non combined)	C_SlotNU

slot3	SN	Slot number for the 3rd slot
		In case of 3 or 4 non combined CCH C_S4
		Otherwise (1 combined or 1, 2 non combined) C_SlotNU

slot4	SN	Slot number for the 4th slot
		In case of 4 non combined CCCH channels C_S6
		Otherwise (1 combined, 1, 2, 3 non combined) C_SlotNU

tsc	TSC	Training Sequence code	C_BCC
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t	INTEGER	Rach Control Parameter field, Tx-Integer for SysInfo1, SysInfo2, SysInfo3, SysInfo4 C_TxInt_5, C_TxInt_7, C_TxInt_10
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retr  INTEGER    Rach Control Parameter field, Max-Retrans
           for SysInfo1, SysInfo2, SysInfo3, SysInfo4 C_Max_1,
           C_Max_2,                                     C_Max_7
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neci	INTEGER	Requested value f. NECI bit in test case	C_NECI_0, C_NECI_1
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att	INTEGER	Requested value f. ATTACH bit in test case C_ATT_0, C_ATT_1
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Test Step Dynamic Behaviour

Detailed Comments : ...

ta	TA	Requested Timing Advance value	
babr	B_3	Number of blocks reserved for acces grant	
		If arbitrary	TSPX_AGBLKsX
		If fixed	C_BABR_0, C_BABR_1, C_BABR_2
cch_con	B_3	Type of CCCH channel.	
		If arbitrary	TSPX_CcchConfX
		1 combined CCCH channel	C_cch_1Comb
		1 non combined CCCH channel	C_cch_1nonComb
		2 non combined CCCH channels	C_cch_2nonComb
		3 non combined CCCH channels	C_cch_3nonComb
		4 non combined CCCH channels	C_cch_4nonComb
bpm	B_3	Number of multiframes for transmission of PAGING REQUEST messages to the same paging subgroup	
		If arbitrary	TSPX_PAMFRMSx
		If fixed (2, 4, 5, 9 multiframes)	C_BPM_0, C_BPM_2, C_BPM_3, C_BPM_7
t3212	OCTETSTR.	Requested value for T3212 in test case Location Update Value)	(Periodic
		infinite	C_T3212_0
		6 mn / 1 deci hours	C_T3212_1
		12 mn / 2 deci hours	C_T3212_2
		30 mn / 5 deci hours	C_T3212_5
ci	CI	Cell Identity	
		If formal para activ_cell = C_CellA	C_ci_CellA
		If formal para activ_cell = C_CellB	C_ci_CellB
		If formal para activ_cell = C_CellC	C_ci_CellC
mcc	OCTETSTR.	Mobile Contry Code for the LAI	C_MCC, C_MCC_x
mnc	OCTETSTR.	Mobile Network Code for the LAI	C_PLMN_Home, C_PLMN_x
lac	OCTETSTR.	Local Area Code for the LAI	C_LAC_x
co	CO	Cell Options	CellOpt_xx
cchdgs	CCHD	Cell Channels Description (GSM)	
		If formal para sysinfonb=C_Test_nfh	CellChDes_omit
		If formal para sysinfonb=C_Test_cbms	CellChDes_omit
		If formal para sysinfonb=C_Test_fh	GSM CellChDes_xx
cchddcs	CCHD	Cell Channels Description (DCS)	
		If formal para sysinfonb=C_Test_nfh	CellChDes_omit
		If formal para sysinfonb=C_Test_cbms	CellChDes_omit
		If formal para sysinfonb=C_Test_fh	DCS CellChDes_xx
crh	INTEGER	Cell Reselection Hysteresis	C_CellReselectHys12, C_CellReselectHys4
mtmcgs	INTEGER	Requested maximum power level for GSM MS	C_MaxPwrLvIG
mtmcdcs	INTEGER	Requested maximum power level for DCS MS	C_MaxPwrLvID
bcchflgs	NCD	Neighbour Cells Description for GSM	BcchFreqLst_xx

Test Step Dynamic Behaviour

Detailed Comments : ...

bcflaltgsm NCD Alternative Neighbour Cells Description for GSM.
 If sysinfofb = C_Test_nfh Alternat.GSM BcchFreqLst_xx
 Otherwise: BcchFreqLst_Omit

bcchfldcs NCD Neighbour Cells Description for DCS BcchFreqLst_xx

bcflaltdcs NCD Alternative Neighbour Cells Description for DCS
 If sysinfofb = C_Test_nfh Alternat.DCS BcchFreqLst_xx
 Otherwise: BcchFreqLst_Omit

Re B_1 Rach Control Parameter field,
 Re-establishment bit for SysInfo1,
 SysInfo2, SysInfo3, SysInfo4 C_Restablishment,
 C_noRestablishmen

bcc BCC Base station Color Code C_BCC

ncc NCC Network Color Code C_NCC

StartType INTEGER Initial conditions for MS
 Starting without TMSI C_Start_Imsi
 Starting with Tmsi_01 C_Start_Tmsi
 Starting with Tmsi_01, MS deactivated C_Start_TmsiOff
 Starting with LAI deleted, MS deactivated C_Start_Rej
 Starting with PLMN not allowed C_Start_PLMNnot

subch BITSTRING Selected sub-channel
 If Formal para cch_con = C_cch_1Comb, TSPX_SDCCH4SubDef
 TSPX_SDCCH4SubA, SubB, SubC

cksn BITSTRING Ciphering Key Sequence Number used for
 authentication TSPX_CKSNDf, TSPX_CKSNA, B, C

rand BITSTRING Random Number for authentication TSPX_RANDDef,
 TSPX_RANDA, B, C

arfcngsm INTEGER BCCH channel ARFCN (GSM)
 If sysinfofb = C_Test_fh C_Noarfcn
 Otherwise: If activ_cell = C_CellA
 C_arfcnA_x If activ_cell = C_CellB C_arfcnB_x If
 activ_cell = C_CellC C_arfcnC_x

arfcndcs INTEGER BCCH channel ARFCN (DCS)
 If sysinfofb = C_Test_fh C_Noarfcn
 Otherwise: If activ_cell = C_CellA
 C_arfcnAd_x If activ_cell = C_CellB C_arfcnBd_x If
 activ_cell = C_CellC C_arfcnCd_x

imsi HEXSTRING The expected IMSI TSPX_IMSI
 In TC_26_7_3_2 C_shortIMSI

sysinfofb INTEGER Type of sysinfo sending
 Frequency Hopping C_Test_fh
 Non Frequency hopping C_Test_nfh
 EGSM sequence C_Test_egsm
 CBMS sequence C_Test_cbms

nccp NCCP Network Country Code Permitted
 in SysInfo2 C_NCCP_2, C_NCCP_5

Test Step Dynamic Behaviour

Test Step Name : IdleUpdated_ASCI (par_bspwr : INTEGER; activ_cell : CellID; sch, bcch : LOGICCH; acttype : BITSTRING; slot, slot2, slot3, slot4 : SN; tsc : TSC; t, retr, neci, att : INTEGER; ta : TA; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgs, cchddcs : CCHD; crh, mtmcgsm, mtmcdds : INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; StartType : INTEGER; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; imsi : HEXSTRING; sysinfonb : INTEGER; nccp : NCCP; nbr_fb, bl, nbr_bl : INTEGER; sys4ro : INTEGER)

Group : Preambles/

Objective : To ensure that the SIM is either updated to the initial conditions and the MS with CKSN valid, TMSI valid and idle updated in cell A, B or C; or idle updated without TMSI; or totally not updated and all LAI information deleted.
Sends ASCI information in SYSINFO 1 rest octets for IUT that supports ASCI.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_AsciTest := TRUE)			
2		(TCV_Cnt2 := 1)			
3		REPEAT l_idleUpdated UNTIL [TCV_Cnt2 = 0]			
4		l_idleUpdated (TCV_Cnt2 := 0)			Only once
5		(TCV_slot := slot, TCV_tsc := tsc, TCV_Ccd0H := CntrlChDscrp (att, babr, C_cch_1Comb, bpm, t3212))			
6		+MM_PwrOrSimOff (C_SIMneedRmv)			
7		+Varinit_fix (activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, TCV_Ccd0H, imsi)			
8		+VarInit_NCH (activ_cell , cch_con, babr, nbr_fb, bl, nbr_bl)			
9		+ltree_chconf (C_cch_1Comb)			Config LT
10		+localtree1			
11		localtree1 +ltree_sysinfo (1, C_cch_1Comb)			ATT= '1'B
12		+MM_PwrOrSimOn (C_SIMneedRmv)			
13		+localtree_Lup_Auth localtree_Lup_Auth			
14		START T_dly (C_T_Wait1stChReq)			
15		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		Any channel request PDU
16		ACTIVATE (OtherEvents_02)			To match ChReq retrans.
17		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))		Any location update type
19		ACTIVATE(OtherEvents)			Restore Normal default
20		[StartType = C_Start_Rej]			
21		LIDL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_LAnotallowed))		Delete LAI, tmsi, cksn
22		+PostMainLinkRel(TCV_ch)			Release Ch
23		+MM_PwrOrSimOff (C_SIMneedRmv)			
24		+localtree2			
25		[StartType = C_Start_Imsi]			
26		+Authentication(TCV_ch, cksn, rand)			
27		LIDL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(Milmsi_01iei, mcc, mnc, TCV_lac))		Location Accept with IMSI
28		+PostMainLinkRel(TCV_ch)			Release Ch
29		+localtree2			
30		[(StartType = C_Start_Tmsi) OR (StartType = C_Start_TmsiOff)]			
31		+Authentication(TCV_ch, cksn, rand)			
32		LIDL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_01iei, mcc, mnc, TCV_lac))		Location Accept with TMSI
33		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)		
34		+PostMainLinkRel(TCV_ch)			Release Ch
35		+localtree2			
36		[StartType = C_Start_PLMNnot]			
37		LIDL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_plmn_not))		Delete LAI, tmsi, cksn
38		+PostMainLinkRel(TCV_ch)			Release Ch
39		+localtree2			
40		[(StartType <> C_Start_Rej) AND (StartType <> C_Start_Tmsi) AND (StartType <> C_Start_TmsiOff) AND (StartType <> C_Start_Imsi) AND (StartType <> C_Start_PLMNnot)]		I	
41		?TIMEOUT T_dly			
42		+ltree_rmvPLMNfbdnlist			
		localtree2			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		[StartType <> C_Start_TmsiOff]			
44		[cch_con <> C_cch_1Comb]			If non combine d
45		+localtree3			
46		+ltree_PgReorg			
47		[(cch_con = C_cch_1Comb) AND (att = 0)]			If combine d, ATT change ATT=0
48		+ltree_sysinfo(0, C_cch_1Comb)			
49		+ltree_PgReorg			
50		[(cch_con = C_cch_1Comb) AND (att = 1)]			If combine d, ATT nochang e
51		[StartType = C_Start_TmsiOff]			
52		+lmsiDetach (MiTmsi_01, ta, C_SIMneedRmv)			Switch off, detach
53		[cch_con <> C_cch_1Comb]			If non combine d
54		+localtree3			
55		[(cch_con = C_cch_1Comb) AND (att = 0)]			If combine d ATT=0
56		+ltree_sysinfo(0, C_cch_1Comb)			
57		[(cch_con = C_cch_1Comb) AND (att = 1)]			If combine d, ATT nochang e
58		localtree3 (TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
59		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, TCV_Ccd0H, imsi)			
60		+ltree_chconf (cch_con)			Config LT
61		+ltree_sysinfo(att, cch_con)			
62		ltree_PgReorg (TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Reorg))			
63		START T_dly(5000)			
64		?TIMEOUT T_dly			
65		(TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Norm))			
66		ltree_sysinfo(attach : INTEGER; con_ch : B_3) [activ_cell = C_CellA]			
67		+SysInfoSending (attach, con_ch)			SI1-4, cellA

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
68		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)			
69		[con_ch = C_cch_1Comb]			If combine d
70		+ SysInfo_SacchSending_asci (TCV_sacch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			SI5, 6, 10 on SACCH/ C4, cell A
71		[con_ch <> C_cch_1Comb]			
72		+ltree_sysinfo_other(attach)			More SIs, cellA
73		[activ_cell = C_CellB]			
74		+SysInfoSending (attach, con_ch)			SI1–4, cellB
75		(TCV_Ccd0B := TCV_Ccd0H, TCV_sacch_B := TCV_sacch, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			SI5, 6 on SACCH/ C4, cell B
76		[con_ch = C_cch_1Comb]			If combine d
77		+SysInfo_SacchSending_asci (TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B, TCV_sysinfo10)			SI5, 6, 10 on SACCH/ C4, cell A
78		[con_ch <> C_cch_1Comb]			No more SIs, cell B
79		[activ_cell = C_CellC]			
80		+SysInfoSending(attach, con_ch)			SI1–4, cellC
81		(TCV_Ccd0C := TCV_Ccd0H, TCV_sacch_C := TCV_sacch, TCV_sysinfo5_C := TCV_sysinfo5, TCV_sysinfo6_C := TCV_sysinfo6)			
82		[con_ch = C_cch_1Comb]			If combine d
83		+SysInfo_SacchSending_asci (TCV_sacch_C, TCV_sysinfo5_C, TCV_sysinfo6_C, TCV_sysinfo10)			SI5, 6, 10 on SACCH/ C4, cell C
84		[con_ch <> C_cch_1Comb]			No more SIs, cell C
		SysInfoSending(attachb : INTEGER; con_chs : B_3)			
85		[sysinfofb = C_Test_fh]			Hopping

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
86		+ SysInfoSending_fh_asci (sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, cchdgsm, cchddcs, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp , sys4ro)			
87		[sysinfonb = C_Test_egsm]			EGSM
88		+SysInfoSending_e_asci (sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, cchdgsm, crh, mtmcgsm, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp , sys4ro)			
		ltree_chconf(conf : B_3)			
89		[activ_cell = C_CellA]			
90		+ltree_chconf_A(conf)			Config LT
91		[activ_cell = C_CellB]			
92		+ltree_chconf_B(conf)			Config LT
93		[activ_cell = C_CellC]			
94		+ltree_chconf_C(conf)			Config LT
		ltree_chconf_A(conf_a : B_3)			
95		[conf_a = C_cch_1nonComb]			
96		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 non combine d CCCH, cell A
97		(TCV_Upd := C_NotCombined)			
98		[conf_a = C_cch_1Comb]			
99		[sysinfonb <> C_Test_cbms]			
100		+CombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combine d CCCH, cell A
101		(TCV_Upd := C_Combined)			
102		[sysinfonb = C_Test_cbms]			
103		+CombinedBCCH_A_CBMS(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combine d CCCH + CBMS, cell A
104		(TCV_Upd := C_Combined)			
105		[conf_a = C_cch_2nonComb]			2 CCCHs
106		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
107		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
108		(TCV_Upd := C_NotCombined)			
109		[conf_a = C_cch_3nonComb]			
110		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A
111		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
112		+NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combine d CCCH, cell A
113		(TCV_Upd := C_NotCombined)			
114		[conf_a = C_cch_4nonComb]			
115		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A
116		+NonCombinedBCCH_A_2(acttype ,slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
117		+NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combine d CCCH, cell A
118		+NonCombinedBCCH_A_4(acttype, slot4, tsc, ta, babr, conf_a, bpm)			4th non combine d CCCH, cell A
119		(TCV_Upd := C_NotCombined)			
120		[(conf_a <> C_cch_1nonComb) AND (conf_a <> C_cch_2nonComb) AND (conf_a <> C_cch_3nonComb) AND (conf_a <> C_cch_4nonComb) AND (conf_a <> C_cch_1Comb)]		I	A wrong CCCH-CONF value, cell A
		ltree_chconf_B(conf_b : B_3)			
121		[conf_b = C_cch_1nonComb]			
122		+NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype,slot,tsc, ta, babr, conf_b, bpm)			1 non combine d CCCH, cell B

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
123		(TCV_Upd := C_NotCombined)			
124		[conf_b = C_cch_1Comb]			
125		+CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)			1 combine d CCCH, cell B
126		(TCV_Upd := C_Combined)			
127		[(conf_b <> C_cch_1nonComb) AND (conf_b <> C_cch_1Comb)]		I	A wrong CCCH– CONF value, cell B
		ltree_chconf_C(conf_c : B_3)			
128		[conf_c = C_cch_1Comb]			
129		+CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_c, bpm)			1 combine d CCCH, cell C
130		(TCV_Upd := C_Combined)			
131		[conf_c <> C_cch_1Comb]		I	
		ltree_sysinfo_other(attach : INTEGER)			
132		[(cch_con = C_cch_1nonComb) OR (cch_con = C_cch_1Comb)]			
133		[(cch_con = C_cch_2nonComb) AND (sysinfonb = C_Test_fh)]			
134		+ SysInfoSending_fh_asci (sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			Sl's on 2nd CCCH
135		[(cch_con = C_cch_2nonComb) AND (sysinfonb = C_Test_egsm)]			
136		+SysInfoSending_e_asci (sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, crh, mtmcgsm, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			Sl's on 2nd CCCH
137		[(cch_con = C_cch_3nonComb) AND (sysinfonb = C_Test_fh)]			
138		+SysInfoSending_fh_asci (sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			Sl's on 2nd CCCH
139		+SysInfoSending_fh_asci (sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			Sl's on 3rd CCCH

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
140		[(cch_con = C_cch_3nonComb) AND (sysinfofb = C_Test_egsm)]			
141		+SysInfoSending_e_asci (sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, crh, mtmcgsm, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 2nd CCCH
142		+SysInfoSending_e_asci (sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, crh, mtmcgsm, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 3rd CCCH
143		[(cch_con = C_cch_4nonComb) AND (sysinfofb = C_Test_fh)]			
144		+SysInfoSending_fh_asci (sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 2nd CCCH
145		+SysInfoSending_fh_asci (sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 3rd CCCH
146		+SysInfoSending_fh_asci (sch, C_BCCH_A_4, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 4th CCCH
147		[(cch_con = C_cch_4nonComb) AND (sysinfofb = C_Test_egsm)]			
148		+SysInfoSending_e_asci (sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, crh, mtmcgsm, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 2nd CCCH
149		+SysInfoSending_e_asci (sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, crh, mtmcgsm, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 3rd CCCH
150		+SysInfoSending_e_asci (sch, C_BCCH_A_4, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, crh, mtmcgsm, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp , sys4ro)			SIs on 4th CCCH
151		ltree_rmvPLMNfbdnlist (TCV_Null := OO_PLMNselModeMan())			
152		(TCV_Null := OO_SelPLMN(mnc))			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
153		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		Any channel request PDU
154		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
155		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		
156		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))		Any location update type
157		ACTIVATE(OtherEvents)			Restore Normal default
158		[StartType = C_Start_PLMNnot]			The PLMN is already in forbidde n list on short SIM
159		L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_plmn_not))		Delete LAI, tmsi, cksn, PLMN still in list
160		+PostMainLinkRel(TCV_ch)			Release Ch
161		(TCV_Null := OO_PLMNselModeAuto())			
162		[StartType <> C_Start_PLMNnot]			
163		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_r02iei, mcc, mnc, TCV_lac))		Location Accept with no TMSI
164		+PostMainLinkRel(TCV_ch)			Release Ch
165		(TCV_Null := OO_PLMNselModeAuto())			
166		(TCV_Null := OM_StopCell(activ_cell))			
167		(TCV_Cnt2 := 1)			2nd time
Detailed Comments : Formal Parameter Type Comments & Explanations Possible values par_bspwr INTEGER Base station power level C_E_default, C_E_suitable activ_cell CellID Activated cell identity C_CellA, C_CellB, C_CellC					

Test Step Dynamic Behaviour

Detailed Comments : ...

sch	LOGICCH	Sync. channel identity If formal para activ_cell = C_CellA, If formal para activ_cell = C_CellB, If formal para activ_cell = C_CellC,	C_SCH_A C_SCH_B C_SCH_C
bcch	LOGICCH	1st broadcast channel id If formal para activ_cell = C_CellA, If formal para activ_cell = C_CellB, If formal para activ_cell = C_CellC,	C_BCCH_A_1 C_BCCH_B_1 C_BCCH_C_1
acttype	BITSTRING	Type for activation of a channel	C_Immass
slot	SN	Slot number for the 1st slot	C_S0
slot2	SN	Slot number for the 2nd slot In case of 2 or 3 or 4 non combined CCCH Otherwise (1 combined or 1 non combined)	C_S2 C_SlotNU
slot3	SN	Slot number for the 3rd slot In case of 3 or 4 non combined CCCH Otherwise (1 combined or 1, 2 non combined)	C_S4 C_SlotNU
slot4	SN	Slot number for the 4th slot In case of 4 non combined CCCH channels Otherwise (1 combined, 1, 2, 3 non combined)	C_S6 C_SlotNU
tsc	TSC	Training Sequence code	C_BCC
t	INTEGER	Rach Control Parameter field, Tx-Integer for SysInfo1, SysInfo2, SysInfo3, SysInfo4 C_TxInt_5, C_TxInt_7,	C_TxInt_10
retr	INTEGER	Rach Control Parameter field, Max-Retrans for SysInfo1, SysInfo2, SysInfo3, SysInfo4 C_Max_1, C_Max_2,	C_Max_7
neci	INTEGER	Requested value f. NECI bit in test case	C_NECI_0, C_NECI_1
att	INTEGER	Requested value f. ATTACH bit in test case	C_ATT_0, C_ATT_1
ta	TA	Requested Timing Advance value	
babr	B_3	Number of blocks reserved for acces grant If arbitrary If fixed	TSPX_AGBLKSx C_BABR_0, C_BABR_1, C_BABR_2
cch_con	B_3	Type of CCCH channel. If arbitrary 1 combined CCCH channel 1 non combined CCCH channel 2 non combined CCCH channels 3 non combined CCCH channels 4 non combined CCCH channels	TSPX_CcchConfx C_cch_1Comb C_cch_1nonComb C_cch_2nonComb C_cch_3nonComb C_cch_4nonComb
bpm	B_3	Number of multiframe for transmission of PAGING REQUEST messages to the same paging subgroup If arbitrary If fixed (2, 4, 5, 9 multiframe)	TSPX_PAMFRMSx C_BPM_0, C_BPM_2, C_BPM_3, C_BPM_7

Test Step Dynamic Behaviour

Detailed Comments : ...

t3212	OCTETSTR.	Requested value for T3212 in test case Location Update Value)	(Periodic
		infinite	C_T3212_0
		6 mn / 1 deci hours	C_T3212_1
		12 mn / 2 deci hours	C_T3212_2
		30 mn / 5 deci hours	C_T3212_5
ci	CI	Cell Identity	
		If formal para activ_cell = C_CellA	C_ci_CellA
		If formal para activ_cell = C_CellB	C_ci_CellB
		If formal para activ_cell = C_CellC	C_ci_CellC
mcc	OCTETSTR.	Mobile Contry Code for the LAI	C_MCC, C_MCC_x
mnc	OCTETSTR.	Mobile Network Code for the LAI	C_PLMN_Home, C_PLMN_x
lac	OCTETSTR.	Local Area Code for the LAI	C_LAC_x
co	CO	Cell Options	CellOpt_xx
cchdgs	CCHD	Cell Channels Description (GSM)	
		If formal para sysinfonb=C_Test_nfh	CellChDes_omit
		If formal para sysinfonb=C_Test_cbms	CellChDes_omit
		If formal para sysinfonb=C_Test_fh	GSM CellChDes_xx
cchddcs	CCHD	Cell Channels Description (DCS)	
		If formal para sysinfonb=C_Test_nfh	CellChDes_omit
		If formal para sysinfonb=C_Test_cbms	CellChDes_omit
		If formal para sysinfonb=C_Test_fh	DCS CellChDes_xx
crh	INTEGER	Cell Reselection Hysteresis	C_CellReselectHys12, C_CellReselectHys4
mtmcgs	INTEGER	Requested maximum power level for GSM MS	C_MaxPwrLvIG
mtmcdcs	INTEGER	Requested maximum power level for DCS MS	C_MaxPwrLvID
bcchfgsm	NCD	Neighbour Cells Description for GSM	BcchFreqLst_xx
bcfaltgsm	NCD	Alternative Neighbour Cells Description for GSM.	
		If sysinfonb = C_Test_nfh	Alternat.GSM BcchFreqLst_xx
		Otherwise:	BcchFreqLst_Omit
bcchfldcs	NCD	Neighbour Cells Description for DCS	BcchFreqLst_xx
bcfaltdcs	NCD	Alternative Neighbour Cells Description for DCS	
		If sysinfonb = C_Test_nfh	Alternat.DCS BcchFreqLst_xx
		Otherwise:	BcchFreqLst_Omit
Re	B_1	Rach Control Parameter field, Re-establishment bit for SysInfo1, SysInfo2, SysInfo3, SysInfo4	C_Restablishment, C_noRestablishmen
bcc	BCC	Base station Color Code	C_BCC
ncc	NCC	Network Color Code	C_NCC
StartType	INTEGER	Initial conditions for MS Starting without TMSI	C_Start_lmsi

Test Step Dynamic Behaviour			
Detailed Comments : ...			
	Starting with Tmsi_01	C_Start_Tmsi	
	Starting with Tmsi_01, MS deactivated	C_Start_TmsiOff	
	Starting with LAI deleted, MS deactivated	C_Start_Rej	
	Starting with PLMN not allowed	C_Start_PLMNnot	
subch	BITSTRING	Selected sub-channel	
	If Formal para cch_con = C_cch_1Comb, TSPX_SDCCH4SubDef		
	TSPX_SDCCH4SubA,		SubB, SubC
cksn	BITSTRING	Ciphering Key Sequence	Number used for
authentication	TSPX_CKSNDf,		TSPX_CKSNA, B, C
rand	BITSTRING	Random Number for authentication	TSPX_RANDDef,
	TSPX_RANDA, B , C		
arfcngsm	INTEGER	BCCH channel ARFCN (GSM)	
	If sysinfofb = C_Test_fh		C_Noarfcn
	Otherwise:		If activ_cell = C_CellA
	C_arfcnA_x	If activ_cell = C_CellB	C_arfcnB_x
activ_cell = C_CellC		C_arfcnC_x	If
arfcndcs	INTEGER	BCCH channel ARFCN (DCS)	
	If sysinfofb = C_Test_fh		C_Noarfcn
	Otherwise:		If activ_cell = C_CellA
	C_arfcnAd_x	If activ_cell = C_CellB	C_arfcnBd_x
activ_cell = C_CellC		C_arfcnCd_x	If
imsi	HEXSTRING	The expected IMSI	TSPX_IMSI
	In TC_26_7_3_2	C_shortIMSI	
sysinfofb	INTEGER	Type of sysinfo sending	
	Frequency Hopping	C_Test_fh	
	Non Frequency hopping	C_Test_nfh	
	EGSM sequence	C_Test_egsm	
	CBMS sequence	C_Test_cbms	
nccp	NCCP	Network Country Code Permitted	
	in SysInfo2	C_NCCP_2, C_NCCP_5	
nbr_fb	INTEGER	Number of the first blocsk used to send Notification on NCH	
	value between 0 and 6 – for combined channel nbr_fb = 0		
nbr_bl	INTEGER	Number of block used	
	value between 1 and 7 – for combined nb_bl = 1		
bl	INTEGER	block used to send the notification	
	value between 0 and 6		
sys4ro	INTEGER		
	type of si4RestOctets information element that shall be sent in the SYSINFO4 PDU.		
	C_Sys4ro_Default , C_Sys4ro_Cell		

Starting with Tmsi_01	C_Start_Tmsi
Starting with Tmsi_01, MS deactivated	C_Start_TmsiOff
Starting with LAI deleted, MS deactivated	C_Start_Rej
Starting with PLMN not allowed	C_Start_PLMNnot

rand	BITSTRING	Random Number for authentication	TSPX_RANDDef, TSPX_RANDA, B , C
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arfcnDcs INTEGER BCCH channel ARFCN (DCS)
    If sysinfoNb = C_Test_fh          C_Noarfcn
        Otherwise:
            C_arfcnAd_x                If activ_cell = C_CellA      If
activ_cell = C_CellC                  C_arfcnBd_x                 C_arfcnCd_x

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sysinfo	INTEGER	Type of sysinfo sending
		Frequency Hopping C_Test_fh
		Non Frequency hopping C_Test_nfh
		EGSM sequence C_Test_egsm
		CBMS sequence C_Test_cbms

nccp	NCCP	Network Country Code Permitted
		in SysInfo2 C_NCCP_2, C_NCCP_5
nbr_fb	INTEGER	Number of the first blocsk used to send Notification on NCH value between 0 and 6 – for combined channel nbr_fb = 0
nbr_bl	INTEGER	Number of block used value between 1 and 7 – for combined nb_bl = 1
bl	INTEGER	block used to send the notification value between 0 and 6
sys4ro	INTEGER	type of si4RestOctets information element that shall be sent in the SYSINFO4 PDU. C_Sys4ro_Default , C_Sys4ro_Cell

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU10_r01(Ta : TA; sub : B_2; powerlevelg,powerleveld : INTEGER; cksn : B_3; rand : RAND; slot : SN; tsc : TSC; tch : B_1; rate : IA5String)

Group : Preambles/

Objective : To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input parameter setup, test case variable TCV_TI holds the transaction ID and the transaction ID =0. This is generic call set up procedure. The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key. The timing advance is parameter. For RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, Ta))		
5		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
6		ACTIVATE(OtherEvents)			Restore Normal default
7		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(cksn, rand))		
8		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
9		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
10		[NOT TCV_Res]		I	1.
11		[TCV_Res]			
12		+Ciphering_on(TCV_ch)			
13		+localtree			
14		localtree (TCV_Setup_mt.sig := Signal_01)			
15		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)	SetupSnd(TCV_ch, TCV_Setup_mt)		
16		L?DL_DatInCallCo (TCV_CallCfm:=DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
17		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
18		+localtree1			
19		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
20		(TCV_Null := OO_HookOff())			
21		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
22		+localtree1			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		localtree1			
24		+AssCmdGen(TCV_cellid, rate, slot, tsc, tch)			
25		+Adjust_gsmaddcs_powerlvl(powerlevelg, powerleveld)			
26		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
27		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			
Detailed Comments : 1. Authentication fails, inconclusive.					

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU10_AsciEMLPP (Ta : TA; sub : B_2; powerlevelg,powerleveld : INTEGER; cksn : B_3; rand : RAND; slot : SN; tsc : TSC; tch : B_1; rate : IA5String; priority : B_3)

Group : Preambles/

Objective : To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input partameter setup, test case variable TCV_TI holds the transaction ID and the transaction ID =0. This is generic call set up procedure. The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key. The timing advance is parameter. For RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_eMLPP (priority))		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, Ta))		
5		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
6		ACTIVATE(OtherEvents)			Restore Normal default
7		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(cksn, rand))		
8		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
9		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
10		[NOT TCV_Res]		I	1.
11		[TCV_Res]			
12		+Ciphering_on(TCV_ch)			
13		+localtree			
14		localtree (TCV_Setup_mt.sig := Signal_01)			
15		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)	SetupSnd(TCV_ch, TCV_Setup_mt)		
16		L?DL_DatInCallCo (TCV_CallCfm:=DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
17		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
18		+localtree1			
19		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
20		(TCV_Null := OO_HookOff())			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
22		+localtree1			
		localtree1			
23		+AssCmdGen(TCV_cellid, rate, slot, tsc, tch)			
24		+Adjust_gsmanddcs_powerlvl(powerlevelg, powerleveld)			
25		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
26		L!DL_DatRqConnAck			
27		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			
Detailed Comments : 1. Authentication fails, inconclusive.					

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateEU10_AsciEMLPP (Ta : TA; sub : B_2; powerlevelg,powerleveld : INTEGER; cksn : B_3; rand : RAND; slot : SN; tsc : TSC; tch : B_1; rate : IA5String; priority : B_3)

Group : Preambles/

Objective : To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input partameter setup, test case variable TCV_TI holds the transaction ID and the transaction ID =0. This is generic call set up procedure. The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for cipherring key. The timing advance is parameter. For RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+BasicServiceMO (C_EmgCall, TSPX_EmgCallRate)			
2		+InitCall (C_EmgCall)			
3		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)		
4		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
5		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_27(TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv(0)))		
6		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_06(TSPX_CKSNDf))		
7		ACTIVATE(OtherEventsFail)			Restore Normal default
8		LIDL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
9		L?DL_DatInESetup (TCV_Esetup1 := DL_DatInESetup.msg, TCV_TI := TCV_Esetup1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	ESetupRcv(TCV_Esetup)		
10		+ CallProcGen (TCV_Setup_mo1, "C_EmgCall")			
11		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
12		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
13		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSlTDef, TSPX_TscDef, TSPX_TCHHSubDef)			
14		(TCV_AssCmd.ch1d_at.arfc n:= INT_TO_BIT(TCV_chdescr_arfcn,10))			
15		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))	(P)	
17		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : PreEnter_Asci_ImmGTM_MO (rate : RATE; serv : INTEGER; sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)					
Group : Preambles/					
Objective : To bring IUT to the group transmit mode state with very early assignment.					
Default : OtherEventsFail_01					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_VGCS_Originating OR TSPC_VBS_Originating]	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_MS))		
2		+ PreEnter_Asci_ImmMOCall (rate , serv , sub , acttype , slot , tsc , ta , babr, cch_con, bpm, mod, Freqg, Freqd, arfcng , arfcnd, TCV_Tchtype)			
3		+ CCMModifyTCH (slot , tsc)			
4		LIDL_DatRqConn_Asci			
5		[C_Yes]		(I)	
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : PreEnter_Asci_GTM_MO (rate : RATE; serv : INTEGER; sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)

Group : Preambles/

Objective : To bring IUT to the group transmit mode state.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ BasicServiceMO_Asci (rate, serv)			
2		+ CCConfigTCH_Asci (sub, acttype, slot , tsc , ta , babr, cch_con, bpm , mod , Freqg, Freqd , arfcng , arfcnd)			
3		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)	(P)	
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImm	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		
7		L?DL_EstInCmsRq	CMSerReq (CMSerReq_01)		
8		ACTIVATE (OtherEventsFail_01)			Restore Normal default
9		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDDef, TSPX_RANDDef))		
10		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
11		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		
12		L?DL_DatInCphmCom	CphCom(CphModeCmp_01)		
13		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_DatInSetup_asci.msg.gcr.ref)	SetupRcv_Asci (Setup_Asci_01 (TCV_VGCS_VBS_Type))	(P)	
14		+ CCModifyTCH (slot , tsc)			
15		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch, ConnectAsci_01 (TCV_VGCS_VBS_Type, TCV_TI , TCV_crAsci, OriginatorInd_MS))		

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Test Step Dynamic Behaviour
Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnter_Asci_GTM (rate : RATE ; serv : INTEGER; callRef : B_27; sch : B_2; sub : B_1 ; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3 ; Freqg, Freqd : FRQPARA; arfcng , arfcnd , mspwrg, mspwr : INTEGER)

Group : Preambles/

Objective : To bring IUT to the group transmit mode state.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(serv = C_asciService_vgcs) OR ((TSPC_VGCS_Talking = TRUE) AND (serv = C_asciService_default))]			
2		+ BasicServiceMT_Asci (rate , C_asciService_default, sub)			
3		+ CCConfigTCH_Asci_pwr (sub, acttype, slot , tsc , ta, babr, cch_con, bpm, TCV_ChMod.mode, Freqg, Freqd, arfcng, arfcnd, mspwrg, mspwr)			
4		+ Send_NotifNch (C_Yes, NotifNCH_ChDescr (callRef , TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_chtype , slot , tsc , TCV_tch_arfcn)) , callRef , TCV_chTch)			
5		(TCV_Null := OO_Join_AsciCall (callRef, C_VGCSType) , TCV_CallDirection := C_CallMT)			
6		L ! DL_UDatRqUpFree	UplinkFree (TCV_chTch, UplinkFree_Uic (TSPX_UIC, '0'B))		
7		(TCV_Null := OO_VGCS_RequestUplinkAccess (callRef))			
8		L ? DL_RacInUpAcc (TCV_Rr := DL_RacInUpAcc. msg.ecau_rrf, TCV_Fn := DL_RacInUpAcc.fn)	UpAccess (UplinkAccess_Def)		
9		L ? DL_RacInUpAcc	UpAccess (UplinkAccess_Def)		
10		L ! DL_UDatRqUpBs	UplinkBusy (UplinkBusy_01, TCV_chTch)		Broadca sted on the main DCCH
11		L ! DL_UdatRqVgcsUpGrant	VGCSUplinkGrant (TCV_chTch , VGCS_UplinkGrant_01 (TCV_Rr, TCV_Fn))		
12		L ? DL_EstInTkInd	TalkerIndication (TalkerInd_01, TCV_chTch)		
13		[(serv = C_asciService_vbs) OR ((TSPC_VBS_Originating = TRUE) AND (serv = C_asciService_default))]			
14		(TCV_CallDirection := C_CallMO)			
15		+ BasicServiceMO_Asci (rate, C_asciService_vbs)			
16		+ CCConfigTCH_Asci_pwr (sub, acttype, slot , tsc , ta, babr, cch_con, bpm, TCV_ChMod.mode, Freqg, Freqd, arfcng, arfcnd , mspwrg, mspwr)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		(TCV_Null := OO_InitCall_Asci (C_VBSType))			
18		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)		
19		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
20		L!DL_UdatRqImmMass	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sch, TCV_slot, TCV_tsc, TCV_chdescr_arfcn , ta))		
21		L?DL_EstInCmsRq	CMSerReq (CMServiceReq_01)		
22		ACTIVATE(OtherEvents)			Restore Normal default
23		L!DL_DatRqCmsAcp	CMSerAcp (TCV_ch, CMServiceAcp_01)		
24		L?DL_DatInSetup_asci (TCV_TI := DL_DatInSetup_asci.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv_Asci (Setup_VBS_01)		
25		+ CCModifyTCH (slot , tsc)			
26		L!DL_DatRqConn_Asci	ConnSnd_Asci (TCV_chTch , ConnectAsci_Vbs_01 (TCV_TI , callRef))		
27		[C_Yes]		I	
Detailed Comments : 1. NOTIFICATION with a call reference active in the MS and a group channel description.					

Test Step Dynamic Behaviour					
Test Step Name : PreEnter_Asci_GRP (rate : RATE ; serv : INTEGER; callRef : B_27; sub : B_1 ; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3 ; Freqg, Freqd : FRQPARA; arfcng , arfcnd: INTEGER) Group : Preambles/ Objective : To bring IUT to group receive mode Default : OtherEventsFail_01 Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+BasicServiceMT_Asci (rate , C_asciService_default, sub)			
2		+CCConfigTCH_Asci (sub, acttype, slot , tsc , ta, babr, cch_con, bpm, TCV_ChMod.mode, Freqg, Freqd, arfcng, arfcnd)			
3		+Enter_Asci_GroupReceiveMode (TCV_chTch, callRef, TCV_tch_arfcn)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : PreEnter_Asci_GRMeMLPP (rate : RATE ; serv : INTEGER; callRef : B_27; sub : B_1 ; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3 ; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; priority :B_3)

Group : Preambles/

Objective : To bring IUT to group receive mode

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+BasicServiceMT_Asci (rate , C_asciService_default, sub)			
2		+CCConfigTCH_Asci (sub, acttype, slot , tsc , ta, babr, cch_con, bpm, TCV_ChMod.mode, Freqg, Freqd, arfcng, arfcnd)			
3		(TCV_Notif1 :=NotifNCH_ChDescr_eMLPP (callRef, TCV_VGCS_VBS_Type , ChDescrp_nfh (TCV_Tchtype , TSPX_TmSlTDef, TSPX_TscDef, TCV_tch_arfcn) , priority))			1
4		+ Send_NotifNch (C_Yes, TCV_Notif1 , callRef, TCV_chTch)			
5		(TCV_Null := OO_Join_AsciCall (callRef , TCV_VGCS_VBS_Type))			2
6		(TCV_Res := OM_TCHThroConnNoUplink_Asci (TCV_VGCS_VBS_Type , TCV_chTch))			3
7		+Check_Result			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnter_Asci_EstablishMO (rate : RATE; serv : INTEGER; sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)

Group : Preambles/

Objective : To bring MS to initiate a Call, to establish L2 connection.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ BasicServiceMO_Asci (rate, serv)			
2		+ CCConfigTCH_Asci (sub, acttype, slot , tsc , ta , babr, cch_con, bpm , mod , Freqg, Freqd , arfcng , arfcnd)			
3		(TCV_Null := OO_InitCall_Asci (TCV_VGCS_VBS_Type))			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImmss	ImmAss (TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_tch_arfcn, TimingAdv(30)))		
7		L?DL_EstInCmsRq	CMSerReq (CMSerReq_01)		
8		ACTIVATE (OtherEventsFail_01)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnter_Asci_ImmMOCall (rate : RATE; serv : INTEGER; sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; Tchtype : CH_TDMA)

Group : Preambles/

Objective : To bring MS to initiate a Call using the immediate procedure, to establish L2 connection.

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ BasicServiceMO_Asci (rate, serv)			
2		+ CCConfigTCH_Asci (sub, acttype, slot , tsc , ta , babr, cch_con, bpm , mod , Freqg, Freqd, arfcng , arfcnd)			
3		(TCV_Null := OO_SelectPriorityLevel (0))			Fast call set-up
4		(TCV_Null := OO_InitImmediateCall_Asci (TCV_VGCS_VBS_Type))			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq (ChRequest_02)	(P)	
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmss	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, Tchtype, slot, tsc, ta, TCV_tch_arfcn, C_normal_paging))		
8		L?DL_EstInImSt (TCV_TI := DL_EstInImSt.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_crAsci := DL_EstInImSt.msg.gi.ref)	DLEstInd_ImmSetup (ImmSetupAsci_Def (TCV_VGCS_VBS_Type, TSPX_CKSNDf))	(P)	
9		ACTIVATE(OtherEventsFail_01)			
10		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef))		
11		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
12		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		
13		L?DL_DatInCphmCom	CphCom(CphModeCmp_01)		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEstRRConn_Asci (chtype: CH_TDMA ; slot : SN; tsc : TSC; arfcn:INTEGER)

Group : Preambles/

Objective : To establish a RR connection on SDCCH

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
2		L?DL_RacInChRq (ChReq(ChRequest_02)		
3		TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
4		L!DL_UdatRqImmss	ImmAss (C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, chtype, slot, tsc ,TimingAdv(30), arfcn, C_normal_paging))		
5		L?DL_EstInPgRes	PagingRes (PagingRes_01)		
6		ACTIVATE (OtherEventsFail_01)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellB(par_bspwr, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgs, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : BITSTRING; bcc : BCC; ncc : NCC)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+ltree_chconf			
3		+SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgs, cchddcs, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			
5		[cch_con = C_cch_1Comb]			
6		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			
7		[cch_con = C_cch_1nonComb]			
8		[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	
		ltree_chconf			
9		[cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B(par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
11		[cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B(par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
13		[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellB_Asci (par_bspwr, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgsm, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : BITSTRING; bcc : BCC; ncc : NCC; sys4ro : INTEGER)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+ltree_chconf			
3		+SysInfoSending_fh_asci (C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2, sys4ro)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			
5		[cch_con = C_cch_1Comb]			
6		+SysInfo_SacchSending_asci (TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B, TCV_sysinfo10)			
7		[cch_con = C_cch_1nonComb]			
8		[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	
		ltree_chconf			
9		[cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B(par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
11		[cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B(par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
13		[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellB_ho_Asci (par_bspwr, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgsm, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : BITSTRING; bcc : BCC; ncc : NCC; td, fn : INTEGER; sys4ro : INTEGER)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+ltree_chconf			
3		+SysInfoSending_fh_asci (C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2, sys4ro)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			
5		[cch_con = C_cch_1Comb]			
6		+SysInfo_SacchSending_asci (TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B, TCV_sysinfo10)			
7		[cch_con = C_cch_1nonComb]			
8	E_0105	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	
		ltree_chconf			
9		[cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B_ho(par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)			
11		[cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B_ho(par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)			
13	E_0106	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartMultiCells_02_asci (bcchfl_gsm, bcchfl_dcs : NCD; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lacB, lacC, lacD, lacE, lacF, lacG, lacH : OCTETSTRING; sys4ro : INTEGER)

Group : Preambles/

Objective : To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.

Default : OtherEvents

Comments : The parameters for SYSTEM INFORMATION messages are defined in section 26.6.3 of GSM 11.10

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+cellN1			
2		+cellN2			
3		+cellN3			
4		+cellN4			
5		+cellN5			
6		+cellN6			
7		+cellN7			
		cellN1			
8		+CombinedBCCH_B(28, C_MaxPwrLvIG, C_MaxPwrLvID, 8, 530, acttype, slot, tsc, ta, babr, cch_con, bpm)			
9		+SysInfoSending_fh_asci (C_SCH_B, C_BCCH_B_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lacB, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2, sys4ro)			
10		(TCV_Ccd0B := TCV_Ccd0H)			
		cellN2			
11		+CombinedBCCH_C(33, C_MaxPwrLvIG, C_MaxPwrLvID, 14, 602, acttype, slot, tsc, ta, babr, cch_con, bpm)			
12		+SysInfoSending_fh_asci (C_SCH_C, C_BCCH_C_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellC, mcc, mnc, lacC, CellOpt_01, CellChDes_06, CellChDes_06d, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2, sys4ro)			
13		(TCV_Ccd0C := TCV_Ccd0H)			
		cellN3			
14		+CombinedBCCH_D(38, C_MaxPwrLvIG, C_MaxPwrLvID, 20, 665, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15		+SysInfoSending_fh_asci (C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellID, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2, sys4ro)			ncc = 1
16		(TCV_Ccd0D := TCV_Ccd0H)			
		cellN4			
17		+CombinedBCCH_E(58, C_MaxPwrLvlG, C_MaxPwrLvlD, 26, 762, acttype, slot, tsc, ta, babr, cch_con, bpm)			
18		+SysInfoSending_fh_asci (C_SCH_E, C_BCCH_E_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellE, mcc, mnc, lacE, CellOpt_01, CellChDes_08, CellChDes_08d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_3, C_NCC, C_NCCP_2, sys4ro)			ncc = 1
19		(TCV_Ccd0E := TCV_Ccd0H)			
		cellN5			
20		+CombinedBCCH_F(63, C_MaxPwrLvlG, C_MaxPwrLvlD, 32, 686, acttype, slot, tsc, ta, babr, cch_con, bpm)			
21		+SysInfoSending_fh_asci (C_SCH_F, C_BCCH_F_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellF, mcc, mnc, lacF, CellOpt_01, CellChDes_09, CellChDes_09d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2, sys4ro)			ncc = 1
22		(TCV_Ccd0F := TCV_Ccd0H)			
		cellN6			
23		+CombinedBCCH_G(68, C_MaxPwrLvlG, C_MaxPwrLvlD, 38, 549, acttype, slot, tsc, ta, babr, cch_con, bpm)			
24		+SysInfoSending_fh_asci (C_SCH_G, C_BCCH_G_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc, mnc, lacG, CellOpt_01, CellChDes_10, CellChDes_10d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2, sys4ro)			
25		(TCV_Ccd0G := TCV_Ccd0H)			
		cellN7			
26		+CombinedBCCH_H(73, C_MaxPwrLvlG, C_MaxPwrLvlD, 44, 810, acttype, slot, tsc, ta, babr, cch_con, bpm)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
27		+SysInfoSending_fh_asci (C_SCH_H, C_BCCH_H_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellH, mcc, mnc, lacH, CellOpt_01, CellChDes_11, CellChDes_11d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2, sys4ro)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : TS61MO(srv : SERVICES)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap for TS61 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := TSPX_TS_61_ur1, TCV_ce := NT_BothT_BothNTorT_BothT_BothNT)			
2		+local_selectCe			
3		+local_bcap			get the right BC
4		(TCV_Setup_mo := Setup_11_3100(C_RI_alternate, Bcap_Speech_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_AnyOrOmit, C_RI_alternate, C_RI_alternate, Hlcmp_NotApplicable, Hlcmp_TS61))			generate SETUP
5		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			initiate channel mode variables
6		(TCV_Null := OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur, TCV_ce, TCV_ChRate))			ask operator to configur e the MS
7		local_bcap			
8		[TCV_ce = C_transparent]			
9		[TCV_ur = C_9600bs]			
10		+local_TS61_FAX3_T(C_9600bs, C_ir_16kbs)			
11		[(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]			
12		+local_TS61_FAX3_T(TCV_ur, C_ir_8kbs)			
13		[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT paramet er error
14		[TCV_ce = C_nottransparent]			
15		+local_TS61_FAX3_NT(TCV_ur)			
16		local_TS61_FAX3_T(ur : B_4; ir : B_2) (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none)) local_TS61_FAX3_NT(ur : B_4) [ur=C_9600bs]			11.8.2.7 .1

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_FAX3, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE.NTorBothTorBothNT, C_modemt_none, C_X25_flt))			11.8.2.7.2
18		[(ur=C_2400bs) OR (ur = C_4800bs)]			
19		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_FAX3, C_SDUIntegrity, C_nirr_dontcare, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE.NTorBothTorBothNT, C_modemt_none, C_X25_flt))			11.8.2.7.2
20		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	IXIT parameter error
		local_selectCe			
21		[TSPX_TS_61_T_NT]			
22		(TCV_ce := C_nottransparent)			
23		[NOT TSPX_TS_61_T_NT]			
24		(TCV_ce := TSPX_TS_61_ce)			
<p>Detailed Comments : The TS61 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.7.1 and section 11.8.2.7.2 of GSM 11.10 and section B.1.10.2 and section B.2.10 of GSM 07.01.</p> <p>The algorithm for selecting parameters:</p> <pre> IF (TSPX_BS_61_T_NT) TCV_ce := C_nottransparent ELSE TCV_ce := TSPX_BS_61_ce use (TCV_ce, TSPX_BS_61_ur1, svc) for OO_IFsetup_TS6x_MO </pre>					

Test Step Dynamic Behaviour					
Test Step Name : TS62MO(srv : SERVICES) Group : Preambles/ Objective : To generate an MO SETUP message with appropriate Bcap for TS62 service. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := TSPX_TS_62_ur1, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT)			variables used in InitCall
2		+local_selectCe			
3		+local_bcap			get the right BC
4		(TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1, Llcmp_AnyOrOmit, Hlcmp_TS62))			
5		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			
6		(TCV_Null := OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur, TCV_ce, TCV_ChRate))			
		local_bcap			
7		[TCV_ce = C_transparent]			
8		[TCV_ur = C_9600bs]			
9		+local_TS62_FAX3_T(C_9600bs, C_ir_16kbs)			
10		[(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]			
11		+local_TS62_FAX3_T(TCV_ur, C_ir_8kbs)			
12		[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT paramet er error
13		[TCV_ce = C_nottransparent]			
14		+local_TS62_FAX3_NT(TCV_ur)			
		local_TS62_FAX3_T(ur : B_4; ir : B_2)			
15		(TCV_BcapMO1 := Bcap_MO(C_Rchr_dontcare, C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.2.7 .1
		local_TS62_FAX3_NT(ur : B_4)			
16		[ur = C_9600bs]			
17		(TCV_BcapMO1 := BcapX_MO(C_Rchr_dontcare, C_FAX3, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE.NTorBothTorBothNT, C_modemt_none, C_X25_flct))			11.8.2.7 .2
18		[(ur = C_2400bs) OR (ur = C_4800bs)]			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		(TCV_BcapMO1 := BcapX_MO(C_Rchr_dontcare, C_FAX3, C_SDUIntegrity, C_nirr_dontcare, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE.NTorBothTorBothNT, C_modemt_none, C_X25_flt))			11.8.2.7 .2
20		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	IXIT paramet er error
21		local_selectCe [TSPX_TS_62_T_NT]			
22		(TCV_ce := C_nottransparent)			
23		[NOT TSPX_TS_62_T_NT]			
24		(TCV_ce := TSPX_TS_62_ce)			
<p>Detailed Comments : The TS62 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.7.1 and section 11.8.2.7.2 of GSM 11.10 and section B.1.10.2 and section B.2.11 of GSM 07.01.</p> <p>The algorithm for selecting parameters: IF (TSPX_BS_62_T_NT) TCV_ce := C_nottransparent ELSE TCV_ce := TSPX_BS_62_ce</p> <p>use (TCV_ce, TSPX_BS_62_ur1, svc) for OO_IFsetup_TS6x_MO</p>					

Test Step Dynamic Behaviour

Test Step Name : TS61MT(srv : SERVICES)

Group : Preambles/

Objective : To generate an MT SETUP message with appropriate Bcap for TS61 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_maintree			
2		+local_IFsetup			
3		local_maintree			
4		(TCV_srv := srv, TCV_2ndtest := C_Yes)			1st Bcap
5		(TCV_BcapMT1 := Bcap_Speech_MT)			
6		+local_first_SETUP_msg			
7		+local_second_SETUP_msg			
8		local_first_SETUP_msg			
9		(TCV_ur := TSPX_TS_61_ur1)			
10		[TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = C_nottransparent)]			
11		+local_bcap2(TCV_ur, C_nottransparent)			2nd channel mode
12		(TCV_Setup_mt := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			Speech mode
13		+Chmod(TCV_ChRate, C_nottransparent, TCV_ur, srv)			
14		(TCV_ChMod.mode := C_ChMod_r)			
15		[NOT TSPX_TS_61_T_NT AND (TSPX_TS_61_ce = C_transparent)]			
16		+local_bcap2(TCV_ur, C_transparent)			2nd channel mode
17		(TCV_Setup_mt := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			Speech mode
18		+Chmod(TCV_ChRate, C_transparent, TCV_ur, srv)			
19		(TCV_ChMod.mode := C_ChMod_r)			
20		local_second_SETUP_msg			
21		+local_userrate			
22		[TSPX_TS_61_T_NT]			
23		+local_bcap2(TCV_ur2, C_transparent)			2nd Bcap
24		(TCV_Setup_mt1 := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
25		[NOT TSPX_TS_61_T_NT]			
		+local_bcap2(TCV_ur2, C_BothT)			
		(TCV_Setup_mt1 := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
		local_bcap2(ur : B_4; ce : B_2)			
		[ce = C_transparent]			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26		[(ur = C_2400bs) OR (ur = C_4800bs)]			
27		+local_TS61_FAX3_T(ur, C_ir_8kbs)			
28		[ur = C_9600bs]			
29		+local_TS61_FAX3_T(ur, C_ir_16kbs)			
30		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
31		[ce = C_BothT]			
32		+local_TS61_FAX3_NT(ur, C_BothT)			
33		[ce = C_nottransparent]			
34		+local_TS61_FAX3_NT(ur, C_nottransparent)			
35		[(ce <> C_transparent) AND (ce <> C_BothT) AND (ce<> C_nottransparent)]		I	
36		local_TS61_FAX3_T(ur : B_4; ir : B_2) (TCV_BcapMT2 := Bcap_MT(C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.5.1
37		local_TS61_FAX3_NT(ur : B_4; ce1 : B_2) (TCV_BcapMT2 := Bcap_MT(C_FAX3, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce1, C_modemt_none))			11.8.1.5.2
38		local_userrate			
39		[TSPX_TS_61_more_ur]			
40		(TCV_ur2 := TSPX_TS_61_ur2)			
41		[NOT TSPX_TS_61_more_ur]			
42		(TCV_ur2 := TSPX_TS_61_ur1)			
43		local_IFsetup			
44		[TCV_supported]			
45		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
46		[NOT TCV_supported]			
47		[TCV_SpecialCase]			
48		START T_dly(C_T_Wait)			
		?TIMEOUT T_dly			
		[NOT TCV_SpecialCase]		I	Parameter error
Detailed Comments : The algorithm for derivation of TS61 Bearer Capabilities: The 1st facsimile group 3 Bearer Capability (used for an MT call): ur= TSPX_TS_61_ur1 IF TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = NT) use coding 11.8.1.5.2 with (ur & ce=NT) ELSE use coding 11.8.1.5.1 with (ur & ce=T) The 2nd facsimile group 3 Bearer Capability (used for TC_11_1_1): IF TSPX_TS_61_more_ur					

Test Step Dynamic Behaviour

Detailed Comments : ...

```
        ur=TSPX_TS_61_ur2
    ELSE
        ur=TSPX_TS_61_ur1
    IF TSPX_TS_61_T_NT
        use coding 11.8.1.5.1 with (ur & ce=T)
    ELSE
        use coding 11.8.1.5.2 with(ur & ce=both/T)
```

Test Step Dynamic Behaviour

Test Step Name : TS62MT(srv : SERVICES)

Group : Preambles/

Objective : To generate an MT SETUP message with appropriate Bcap for TS62 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_maintree			
2		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
		local_maintree			
3		(TCV_srv := srv, TCV_2ndtest := C_Yes)			
4		+local_first_SETUP_msg			
5		+local_second_SETUP_msg			
		local_first_SETUP_msg			
6		(TCV_ur := TSPX_TS_62_ur1)			
7		[TSPX_TS_62_T_NT OR (TSPX_TS_62_ce = C_nottransparent)]			
8		+local_bcap2(TCV_ur, C_nottransparent)			
9		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02))			
10		+Chmod(TCV_ChRate, C_nottransparent, TCV_ur, srv)			
11		[NOT TSPX_TS_62_T_NT AND (TSPX_TS_62_ce = C_transparent)]			
12		+local_bcap2(TCV_ur, C_transparent)			
13		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02))			
14		+Chmod(TCV_ChRate, C_transparent, TCV_ur, srv)			
		local_second_SETUP_msg			
15		+local_userrate			
16		[TSPX_TS_62_T_NT]			
17		+local_bcap2(TCV_ur2, C_transparent)			
18		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02))			
19		[NOT TSPX_TS_62_T_NT]			
20		+local_bcap2(TCV_ur2, C_BothT)			
21		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02))			
		local_bcap2(ur : B_4; ce : B_2)			
22		[ce = C_transparent]			
23		[(ur = C_2400bs) OR (ur = C_4800bs)]			
24		+local_TS62_FAX3_T(ur, C_ir_8kbs)			
25		[ur = C_9600bs]			
26		+local_TS62_FAX3_T(ur, C_ir_16kbs)			
27		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
28		[ce = C_BothT]			
29		+local_TS62_FAX3_NT(ur, C_BothNT)			
30		[ce = C_nottransparent]			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		+local_TS62_FAX3_NT(ur, C_nottransparent)			
32		[(ce <> C_transparent) AND (ce <> C_BothT) AND (ce<> C_nottransparent)]		I	
33		local_TS62_FAX3_T(ur : B_4; ir : B_2) (TCV_BcapMT2 := Bcap_MT(C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.5 .1
34		local_TS62_FAX3_NT(ur : B_4; ce1 : B_2) (TCV_BcapMT2 := Bcap_MT(C_FAX3, C_SDUIntegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce1, C_modemt_none))			11.8.1.5 .2
35		local_userrate			
36		[TSPX_TS_62_more_ur]			
37		(TCV_ur2 := TSPX_TS_62_ur2)			
38		[NOT TSPX_TS_62_more_ur]			
39		(TCV_ur2 := TSPX_TS_62_ur1)			
40		local_IFsetup			
41		[TCV_supported]			
42		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
43		[NOT TCV_supported]			
44		[TCV_SpecialCase]			
45		START T_dly(C_T_Wait)			
		?TIMEOUT T_dly			
		[NOT TCV_SpecialCase]		I	Paramet er error

Detailed Comments : The algorithm for derivation of TS62 Bearer Capabilities:

The 1st Bearer Capability (used for an MT call):
ur= TSPX_TS_62_ur1
IF TSPX_TS_62_T_NT OR (TSPX_TS_62_ce = NT)
use coding 11.8.1.5.2 with (ur & ce=NT)
ELSE
use coding 11.8.1.5.1 with (ur & ce=T)

The 2nd Bearer Capability (used for TC_11_1_1):
IF TSPX_TS_62_more_ur
ur=TSPX_TS_62_ur2
ELSE
ur=TSPX_TS_62_ur1
IF TSPX_TS_62_T_NT
use coding 11.8.1.5.1 with (ur & ce=T)
ELSE
use coding 11.8.1.5.2 with(ur & ce=both/T)

Test Step Dynamic Behaviour					
Test Step Name : CCConfigTCH(sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)					
Group : management/ChConfig/					
Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		+FullRateCh_A_1(acttype, slot, tsc, ChMod(mod), Freqg, Freqd , arfcng , arfcnd, ta, babr, cch_con, bpm)			
3		[TCV_ChRate = C_Half]			2.
4		+HalfRateCh_A_1(sub, acttype, slot, tsc, ChMod(mod), Freqg, Freqd , arfcng , arfcnd, ta, babr, cch_con, bpm)			
Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel. 2. Half rate channel needed, to setup the physical channel as half rate traffic channel.					

Test Step Dynamic Behaviour					
Test Step Name : CCConfigTCH_pwr(sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng, arfcnd , mspwrg, mspwrd : INTEGER)					
Group : management/ChConfig/					
Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate with a power level needed .					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		+FullRateCh_A_1pwr(acttype, slot, tsc, ChMod(mod), Freqg, Freqd , arfcng , arfcnd, ta, babr, cch_con, bpm, mspwrg, mspwrd)			
3		[TCV_ChRate = C_Half]			2.
4		+HalfRateCh_A_1pwr(sub, acttype, slot, tsc, ChMod(mod), Freqg, Freqd , arfcng , arfcnd, ta, babr, cch_con, bpm, mspwrg, mspwrd)			
Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel. 2. Half rate channel needed, to setup the physical channel as half rate traffic channel.					

Test Step Dynamic Behaviour					
Test Step Name : CCConfigTCH_nociph(sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)					
Group : management/ChConfig/					
Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		[arfcng <> C_Noarfcn]			
3		+ FullRateCh_A_1_nociph (acttype, slot, tsc, ChMod(mod), FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			
9		+FullRateCh_A_1_nociph(acttype, slot, tsc, ChMod(mod), Freqg, Freqd, ta, babr, cch_con, bpm)			
10		[TCV_ChRate = C_Half]			2.
11		[arfcng <> C_Noarfcn]			
12		+HalfRateCh_A_1_nociph (sub, acttype, slot, tsc, ChMod(mod), FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
13		[TSPC_PGSM OR TSPC_EGSM]			
14		(TCV_tch_arfcn:= arfcng)			
15		[TSPC_DCS]			
16		(TCV_tch_arfcn:= arfcnd)			
17		[arfcng = C_Noarfcn]			
18		+HalfRateCh_A_1_nociph(sub, acttype, slot, tsc, ChMod(mod), Freqg, Freqd, ta, babr, cch_con, bpm)			
Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel. 2. Half rate channel needed, to setup the physical channel as half rate traffic channel.					

Test Step Dynamic Behaviour					
Test Step Name : CCConfigTCH_Asci (sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)					
Group : management/ChConfig/					
Objective :					
Default : OtherEventsFail_01					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ CCConfigTCH_nociph (sub, acttype, slot, tsc, ta , babr, cch_con, bpm , mod , Freqg, Freqd , arfcng , arfcnd)			
2		LIDL_UdatRqSysinfo10	SysInfo10 (TCV_sacchTch , SysInf10Def)		
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : CCConfigTCH_Asci_pwr (sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd , mspwrg, mspwrđ : INTEGER)					
Group : management/ChConfig/					
Objective :					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ CCConfigTCH_pwr (sub, acttype, slot, tsc, ta , babr, cch_con, bpm , mod , Freqg, Freqd, arfcng , arfcnd, mspwrg, mspwrđ)			
2		L!DL_UdatRqSysinfo10	SysInfo10 (TCV_sacchTch , SysInf10Def)		
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Config_CBMS_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH, SDCCH4 and CBCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, C_SDCCH4_A, C_SACCHC4_A, C_CBCH_A))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_A, C_SDCCH40_A, C_SDCCH41_A, C_SDCCH42_A, C_SDCCH43_A, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_A, C_SACCHC40_A, C_SACCHC41_A, C_SACCHC42_A, C_SACCHC43_A, "dummy", "dummy", "dummy", "dummy"))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_2(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", C_BCCH_A_2, C_PCH_A_2, C_AGCH_A_2, C_RACH_A_2, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_3(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", C_BCCH_A_3, C_PCH_A_3, C_AGCH_A_3, C_RACH_A_3, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_4(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", C_BCCH_A_4, C_PCH_A_4, C_AGCH_A_4, C_RACH_A_4, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_B_ho_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B with controllable td and fn.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, td, fn, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHF_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set one physical channel used as TCHF_ACCH's of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_A_1, C_SACCHF_A_1, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHF_A_2(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING;
slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set one physical channel used as TCHF_ACCH's for instance 2 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_A_2, C_SACCHF_A_2, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour					
Test Step Name : Config_FACCHF_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHF_ACCH's of cell B.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_B_1, C_SACCHF_B_1, "dummy"))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHH_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set one physical channel used as TCHH_ACCH's of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHH_A_1, C_SACCHH_A_1, "dummy"))			
2		(TCV_Null := OM_Assoc(C_FACCHH_A_1, C_FACCHH0_A_1, C_FACCHH1_A_1, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SACCHH_A_1, C_SACCHH0_A_1, C_SACCHH1_A_1, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, C_SDCCH4_A, C_SACCHC4_A, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_A, C_SDCCH40_A, C_SDCCH41_A, C_SDCCH42_A, C_SDCCH43_A, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_A, C_SACCHC40_A, C_SACCHC41_A, C_SACCHC42_A, C_SACCHC43_A, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, C_SDCCH4_B, C_SACCHC4_B, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_B, C_SDCCH40_B, C_SDCCH41_B, C_SDCCH42_B, C_SDCCH43_B, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_B, C_SACCHC40_B, C_SACCHC41_B, C_SACCHC42_B, C_SACCHC43_B, "dummy", "dummy", "dummy", "dummy"))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_B_ho_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B with controlable ta and fn.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, td, fn, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, C_SDCCH4_B, C_SACCHC4_B, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_B, C_SDCCH40_B, C_SDCCH41_B, C_SDCCH42_B, C_SDCCH43_B, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_B, C_SACCHC40_B, C_SACCHC41_B, C_SACCHC42_B, C_SACCHC43_B, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_C_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellC, C_FCCH_C, C_SCH_C, C_BCCH_C_1, C_PCH_C_1, C_AGCH_C_1, C_RACH_C_1, C_SDCCH4_C, C_SACCHC4_C, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_C, C_SDCCH40_C, C_SDCCH41_C, C_SDCCH42_C, C_SDCCH43_C, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_C, C_SACCHC40_C, C_SACCHC41_C, C_SACCHC42_C, C_SACCHC43_C, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_D_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellD, C_FCCH_D, C_SCH_D, C_BCCH_D_1, C_PCH_D_1, C_AGCH_D_1, C_RACH_D_1, C_SDCCH4_D, C_SACCHC4_D, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_D, C_SDCCH40_D, C_SDCCH41_D, C_SDCCH42_D, C_SDCCH43_D, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_D, C_SACCHC40_D, C_SACCHC41_D, C_SACCHC42_D, C_SACCHC43_D, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_E_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellE, C_FCCH_E, C_SCH_E, C_BCCH_E_1, C_PCH_E_1, C_AGCH_E_1, C_RACH_E_1, C_SDCCH4_E, C_SACCHC4_E, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_E, C_SDCCH40_E, C_SDCCH41_E, C_SDCCH42_E, C_SDCCH43_E, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_E, C_SACCHC40_E, C_SACCHC41_E, C_SACCHC42_E, C_SACCHC43_E, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_F_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellF, C_FCCH_F, C_SCH_F, C_BCCH_F_1, C_PCH_F_1, C_AGCH_F_1, C_RACH_F_1, C_SDCCH4_F, C_SACCHC4_F, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_F, C_SDCCH40_F, C_SDCCH41_F, C_SDCCH42_F, C_SDCCH43_F, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_F, C_SACCHC40_F, C_SACCHC41_F, C_SACCHC42_F, C_SACCHC43_F, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_G_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellG, C_FCCH_G, C_SCH_G, C_BCCH_G_1, C_PCH_G_1, C_AGCH_G_1, C_RACH_G_1, C_SDCCH4_G, C_SACCHC4_G, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_G, C_SDCCH40_G, C_SDCCH41_G, C_SDCCH42_G, C_SDCCH43_G, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_G, C_SACCHC40_G, C_SACCHC41_G, C_SACCHC42_G, C_SACCHC43_G, "dummy", "dummy", "dummy", "dummy"))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_H_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellH, C_FCCH_H, C_SCH_H, C_BCCH_H_1, C_PCH_H_1, C_AGCH_H_1, C_RACH_H_1, C_SDCCH4_H, C_SACCHC4_H, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_H, C_SDCCH40_H, C_SDCCH41_H, C_SDCCH42_H, C_SDCCH43_H, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_H, C_SACCHC40_H, C_SACCHC41_H, C_SACCHC42_H, C_SACCHC43_H, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH8_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/ChConfig/

Objective : To set one physical channel used as SDCCH8 channel for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SDCCH8_A_1, C_SACCHC8_A_1, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH8_A_1, C_SDCCH80_A_1, C_SDCCH81_A_1, C_SDCCH82_A_1, C_SDCCH83_A_1, C_SDCCH84_A_1, C_SDCCH85_A_1, C_SDCCH86_A_1, C_SDCCH87_A_1, C_SACCHC8_A_1, C_SACCHC80_A_1, C_SACCHC81_A_1, C_SACCHC82_A_1, C_SACCHC83_A_1, C_SACCHC84_A_1, C_SACCHC85_A_1, C_SACCHC86_A_1, C_SACCHC87_A_1))			

Detailed Comments :

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			2.
3		[TSPC_DCS]			
4		+Config_SDCCH4_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P, E-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_A_CBMS(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A. Default : OtherEvents Comments : time slot = 0, ARFCN = 20 (GSM900) or ARFCN = 590 (DCS1800) cell A for RR testing.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_CBMS_A_1(par_bspwr,mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCC H4_SACCHC4, ta, babr, cch_con, bpm)			2.
3		[TSPC_DCS]			
4		+Config_CBMS_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCC H4_SACCHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_B_1 (par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_B_1 (par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_B_ho(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_B_ho_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm, td, fn)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_B_ho_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm, td, fn)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_C_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_C_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_D(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_D_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_D_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_E(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_E_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_E_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_F(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_F_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_F_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_G(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2: INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_G_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_G_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : CombinedBCCH_H(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_H_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_H_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set one physical channel used as FCHH_SCH_BCCH_CCCH for cell A. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : NonCombinedBCCH_A_2(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_2(63, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnA), C_BCCH_CCCH_2, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_2(63, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnAd), C_BCCH_CCCH_2, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : NonCombinedBCCH_A_3(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A. Default : OtherEvents Comments : time slot = 4, ARFCN = TSPX_BCCHcarrierA					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_3(63, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnA), C_BCCH_CCCH_3, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_3(63, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnAd), C_BCCH_CCCH_3, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : NonCombinedBCCH_A_4(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A. Default : OtherEvents Comments : time slot = 6, ARFCN = TSPX_BCCHcarrierA					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_4(63, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnA), C_BCCH_CCCH_4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_4(63, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnAd), C_BCCH_CCCH_4, ta, babr, cch_con, bpm)			
Detailed Comments : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
Test Step Name : NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_B_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_B_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : NonCombinedBCCH_B_ho(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER) Group : management/ChConfig/ Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_B_ho_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm, td, fn)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_B_ho_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm, td, fn)			
Detailed Comments : 1. For P-GSM900. 1.1 Frequenz and cell_id for cell B in HO cases 2. For DCS1800. 2.1 Frequenz and cell_id for cell B in HO cases					

Test Step Dynamic Behaviour					
Test Step Name : FullRateCh_A_1(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd: FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			Non hopping
2		+FullRateCh_A_1_nociph(acttypeT, slotT, tscT, chmod, FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
3		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			Hopping
9		+FullRateCh_A_1_nociph(acttypeT, slotT, tscT, chmod, Freqg , Freqd, ta, babr, cch_con, bpm)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_A_1_Asci (acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)

Group : management/ChConfig/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			Non hopping
2		+FullRateCh_A_1_nociph_Asci (acttypeT, slotT, tscT, chmod, FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm, mspwrg, mspwrd)			
3		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			Hopping
9		+FullRateCh_A_1_nociph_Asci (acttypeT, slotT, tscT, chmod, Freqg , Freqd, ta, babr, cch_con, bpm, mspwrg, mspwrd)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour					
Test Step Name : FullRateCh_A_1_nociph(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chtype := '00001'B)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_A_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_FACCHF_A_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : FullRateCh_A_1_nociph_Asci (acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER) Group : management/ChConfig/ Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chtype := '00001'B)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_A_1(63, mspwrg, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending_asci (TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
5		[TSPC_DCS]			
6		+Config_FACCHF_A_1(63, mspwrd, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending_asci (TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_A_1pwr(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)

Group : management/ChConfig/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			Non hopping
2		+ FullRateCh_A_1_nociphPwr (acttypeT, slotT, tscT, chmod, FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm, mspwrg, mspwrd)			
3		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			Hopping
9		+ FullRateCh_A_1_nociphPwr (acttypeT, slotT, tscT, chmod, Freqg , Freqd, ta, babr, cch_con, bpm, mspwrg, mspwrd)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour					
Test Step Name : FullRateCh_A_1_nociphPwr(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chtype := '00001'B)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_A_1(63, mspwrg, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_FACCHF_A_1(63, mspwrd, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : FullRateCh_B_1_Asci (acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.					
Default : OtherEvents					
Comments : FullRateCh_B_1.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FullRateCh_B_1_nociph_Asci (acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm, mspwrg, mspwrd)			
2		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : FullRateCh_B_1_nociph_Asci (acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_B_1,			
2		TCV_sacchTch := C_SACCHF_B_1)			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_FACCHF_B_1(63, mspwrg, chmod,			
5		acttypeT, slotT, tscT, Freqg,			
6		C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending_asci (
		TCV_sacchTch, TCV_sysinfo5_B,			
		TCV_sysinfo6_B, TCV_sysinfo10)			
		[TSPC_DCS]			
		+Config_FACCHF_B_1(63, mspwrd, chmod,			
		acttypeT, slotT, tscT, Freqd,			
		C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
		+SysInfo_SacchSending_asci (
		TCV_sacchTch, TCV_sysinfo5_B,			
		TCV_sysinfo6_B, TCV_sysinfo10)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : HalfRateCh_A_1(sub : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			not hopping
2		+HalfRateCh_A_1_nociph(sub, acttypeT, slotT,			
3		tscT, chmod, FreqTCH(arfcng) , FreqTCH(
4		arfcnd), ta, babr, cch_con, bpm)			
5		(TCV_Null := OM_CphMd(TCV_chTch,			
6		CphMod_01, TCV_CphKey))			
7		[TSPC_PGSM OR TSPC_EGSM]			
8		(TCV_tch_arfcn:= arfcng)			
9		[TSPC_DCS]			
10		(TCV_tch_arfcn:= arfcnd)			
		[arfcng = C_Noarfcn]			hopping
		+HalfRateCh_A_1_nociph(sub, acttypeT, slotT,			
		tscT, chmod, Freqg , Freqd , ta, babr, cch_con,			
		bpm)			
		(TCV_Null := OM_CphMd(TCV_chTch,			
		CphMod_01, TCV_CphKey))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : HalfRateCh_A_1_nociph(sub : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := OC_SubchOfFacchh(sub, C_CellA, 1), TCV_sacchTch := OC_SubchOfSacchh(sub, C_CellA, 1))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHH_A_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
5		+localtree			
6		[TSPC_DCS]			
7		+Config_FACCHH_A_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
8		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
9		+localtree			
		localtree			
10		[sub = '0'B]			
11		(TCV_chtype := '00010'B)			
12		[sub = '1'B]			
13		(TCV_chtype := '00011'B)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_A_1pwr(sub : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)

Group : management/ChConfig/

Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			not hopping
2		+ HalfRateCh_A_1_nociphPwr (sub, acttypeT, slotT, tscT, chmod, FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm, mspwrg, mspwrd)			
3		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			hopping
9		+ HalfRateCh_A_1_nociphPwr (sub, acttypeT, slotT, tscT, chmod, Freqg , Freqd, ta, babr, cch_con, bpm, mspwrg, mspwrd)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour					
Test Step Name : HalfRateCh_A_1_nociphPwr(sub : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3; mspwrg, mspwrd : INTEGER)					
Group : management/ChConfig/					
Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := OC_SubchOfFacchh(sub, C_CellA, 1),			
2		TCV_sacchTch := OC_SubchOfSacchh(sub, C_CellA, 1))			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_FACCHH_A_1(63, mspwrg, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
5		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
6		+localtree			
7		[TSPC_DCS]			
8		+Config_FACCHH_A_1(63, mspwrd, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
9		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
10		+localtree			
11		localtree			
12		[sub = '0'B]			
13		(TCV_chtype := '00010'B)			
		[sub = '1'B]			
		(TCV_chtype := '00011'B)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : SDCCH8_A_1_nociph_Asci (bstring : B_3; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) Group : management/ChConfig/ Objective : To set one physical channel used as SDCCH8 channel for instance 1 of cell A. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_ch := OC_SubchOfSdcch8(bstring, C_CellA, 1),			
2		TCV_sacch8 := OC_SubchOfSacch8(bstring, C_CellA, 1))			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_SDCCH8_A_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
5		+SysInfo_SacchSending_asci (TCV_sacch8, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
6		[TSPC_DCS]			
7		+Config_SDCCH8_A_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
		+SysInfo_SacchSending_asci (TCV_sacch8, TCV_sysinfo5, TCV_sysinfo6, TCV_sysinfo10)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : InitCall(srv: SERVICES) Group : OperatorOP/ Objective : To initiate a call of the basic service 'srv'. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_InitCall(srv))			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : PostLinkRelEnd(ch: LOGICCH) Group : Postambles/ Objective : To release the RR connection and bring the MS back to Idle state. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)		
2		L?DL_RelIn	DLRelInd_01		
3		CANCEL		R	1.
4		?TIMEOUT T_release			
5		CANCEL		R	1.
Detailed Comments : 1. Cancel of all running timers and final verdict.					

Test Step Dynamic Behaviour					
Test Step Name : PostMainLinkRel (chnl : LOGICCH) Group : Postambles/ Objective : To release the main signalling link 'ch', and bring the MS back to Idle state. Default : OtherEvents Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(chnl, ChRelease_01)		
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3		?TIMEOUT T_release			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : PostMainLinkRel_Asci (chnl : LOGICCH; call_orig : INTEGER; asci_mode : INTEGER)					
Group : Postambles/					
Objective : To release the main signalling link 'ch', and bring the MS back to Idle state.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[asci_mode = C_GroupReceive]	ChRel_UI (chnl, ChRelease_01)		
2		L!DL_UDatRqChRel START T_dly (C_T_Wait)			
3		?TIMEOUT T_dly			
4		[asci_mode = C_GroupTransmit]			
5		[call_orig = C_CallMT]	UplinkRelS (chnl, UplinkRelease_01)		
6		L!DL_DatRqUpRel			
7		L!DL_UDatRqChRel START T_dly (C_T_Wait)			
8		?TIMEOUT T_dly			
9		[call_orig = C_CallMO]	ChRel (chnl, ChRelease_01)		
10		L!DL_DatRqChRel START T_release			
11		L?DL_RelIn CANCEL T_release			
12		? TIMEOUT T_release			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ChanRel(ch: LOGICCH)					
Group : Postambles/					
Objective : To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)	(F)	
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3		?TIMEOUT T_release			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name : ChanRel_asci_cipher (ch: LOGICCH)					
Group : Postambles/					
Objective : To release the RR connection on the channel ch and bring the MS back to Idle state.					
Default : OtherEvents					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel (ch, ChRelease_01)		
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3		(TCV_Null := OM_CphMd(ch, CphMod_02, TCV_CphKey))			
4		?TIMEOUT T_release			
5		(TCV_Null := OM_CphMd(ch, CphMod_02, TCV_CphKey))			
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : DTMFsig(ch: LOGICCH) Group : Objective : To match DTMF signalling when an MMI key in the MS is depressed or released in the active state. Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_DatInStartDtmf(TCV_Char := DL_DatInStartDtmf.msg.kpf.kpf_info, TCV_ti_v := DL_DatInStartDtmf.msg.ti.ti_v)	StartDTMFRcv(StartDtmf_02)		
2		L!DL_DatRqStartDtmfAck(DL_DatRqStartDtmfAck.msg.ti.ti_v := TCV_ti_v)	StartDTMFAckSnd(ch, StartDtmfAck_01(TCV_Char))		
3		RETURN			
4		L?DL_DatInStopDtmf(TCV_ti_v := DL_DatInStopDtmf.msg.ti.ti_v)	StopDTMFRcv(StopDtmf_01)		
5		L!DL_DatRqStopDtmfAck(DL_DatRqStopDtmfAck.msg.ti.ti_v := TCV_ti_v)	StopDTMFAckSnd(ch, StopDtmfAck_01)		
6		RETURN			
Detailed Comments :					

Default Dynamic Behaviour					
Default Name : OtherEvents Group : Objective : To match unexpected events and assign a final verdict for preambles. Comments : used in preambles.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		4.
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7		CANCEL		I	3.
8		L?OTHERWISE			2.
9		CANCEL		I	3.
Detailed Comments : 1. The guard timer times out, inconclusive. 2. Unexpected events, inconclusive. 3. Cancel of all running timers. 4. Local end termination request allowed.					

Default Dynamic Behaviour					
Default Name : OtherEventsFail Group : Objective : To match unexpected events and fail the test case. Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7		CANCEL		I	3.
8		L?OTHERWISE			2.
9		CANCEL		F	3.
Detailed Comments : 1. The guard timer times out, inconclusive. 2. Unexpected events, fail. 3. Cancel of all running timers.					

Default Dynamic Behaviour					
Default Name : OtherEventsFail_01 Group : Objective : To match irrelevant CHANNEL REQUEST msg and MEASUREMENT REPORT msg and return or match other unexpected events and fail the test case. Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_01		6.
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7		CANCEL		I	5.
8		L?DL_RacInChRq	ChReq(ChRequest_02)		2.
9		RETURN			
10		L?DL_UdatInMsrRpt	MsrRept(MsrReport_02)		3.
11		RETURN			
12		L?OTHERWISE			4.
13		CANCEL		F	5.
Detailed Comments : 1. The guard timer times out, inconclusive. 2. To throw away any irrelevant channel request. 3. To throw away any measurement report. 4. Other unexpected events, fail. 5. Cancel of all running timers. 6. Cover also DLRelInd_02 for local end termination.					

Default Dynamic Behaviour					
Default Name : OtherEventsFail_02 Group : Objective : To match unexpected events and fail the test case but ignore channel request messages that are sent before the lower tester has sent (and the MS received) the Immediate Assignment message. Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_Relln	DLRelInd_02		
2		RETURN			
3		L?DL_Udatln	DLUdatInd_01		
4		RETURN			
5		L?DL_RacInChRq	ChReq(ChRequest_02)		1.
6		RETURN			
7		?TIMEOUT T_guard			2.
8		(TCV_Null := OO_TguardTimeOut())			
9		CANCEL		I	4.
10		L?OTHERWISE			3.
11		CANCEL		F	4.
Detailed Comments : 1. To throw away any irrelevant channel request. 2. The guard timer times out, inconclusive. 3. Unexpected events, fail. 4. Cancel of all running timers.					

Default Dynamic Behaviour					
Default Name : OtherEvents_02 Group : Objective : To match unexpected events and sign final verdict for preambles but ignore channel request messages that are sent before the lower tester has sent (and the MS received) the Immediate Assignment message. Comments : used in preambles.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_Relln	DLRelInd_02		
2		RETURN			
3		L?DL_Udatln	DLUdatInd_01		
4		RETURN			
5		L?DL_RacInChRq	ChReq(ChRequest_02)		1.
6		RETURN			
7		?TIMEOUT T_guard			2.
8		(TCV_Null := OO_TguardTimeOut())			
9		CANCEL		I	4.
10		L?OTHERWISE			3.
11		CANCEL		I	4.
Detailed Comments : 1. To throw away any irrelevant channel request. 2. The guard timer times out, inconclusive. 3. Unexpected events, inconclusive. 4. Cancel of all running timers.					

Default Dynamic Behaviour					
Default Name : RcvHdOvAcc					
Group :					
Objective : To match any HANDOVER ACCESS then return to calling tree.					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInHoacc	HndOvAcc_01		
2		RETURN			
Detailed Comments :					