

I

Test Suite Overview

Test Suite Structure			
Suite Name : SUB_BA Standards Ref : EN 300 061-1 PICS Ref : EN 300 061-2 PIXIT Ref : EN 300 061-4 Test Method(s) : Remote single layer test method Comments : Applicable to Basic Access.			
Test Group Reference	Selection Ref	Test Group Objective	Page Nr
SUB/ SUB/User_S_T/ SUB/User_T/			
Detailed Comments :			

Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
SUB/User_S_T/	SUB_U01_001		subclause 9.2.1 1.1 mandatory	MC
SUB/User_S_T/	SUB_U01_002		subclause 9.2.1 1.1 mandatory	MC
SUB/User_S_T/	SUB_U01_003		subclause 9.2.1 1.1 mandatory	MC
SUB/User_T/	SUB_U02_001		subclause 9.2.1 1.1 mandatory	MC
SUB/User_T/	SUB_U02_002		subclause 9.2.1 1.1 mandatory	MC
SUB/User_T/	SUB_U02_003		subclause 9.2.1 1.1 mandatory	MC
SUB/User_T/	SUB_U02_004		subclause 9.2.1 1.1 mandatory	MC
SUB/User_T/	SUB_U02_005		subclause 9.2.1 1.1 mandatory	MC
Detailed Comments :				

Test Step Index			
Test Step Group Reference	Test Step Id	Description	Page Nr
	PR30001 PO49901 CS50001 CS59901 UM59902		
Detailed Comments :			

Default Index			
Default Group Reference	Default Id	Description	Page Nr
	DF69901		
Detailed Comments :			

II

Declarations Part

Simple Type Definitions		
Type Name	Type Definition	Comments
GFP_MT_LIST	OCTETSTRING ('24'O, '28'O, '30'O, '31'O, '33'O, '37'O, '62'O, '64'O)	MTs: HOLD, HOLD_ACK, HOLD_REJ, RETRIEVE, RET_ACK, RET_REJ FACILITY, REGISTER
CAU_I	BITSTRING ('00001000'B)	Cause id type
CDPN_I	BITSTRING ('01110000'B)	Called party number id type
CDPS_I	BITSTRING ('01110001'B)	Called party subadd. id type
CGPN_I	BITSTRING ('01101100'B)	Calling party number id type
CGPS_I	BITSTRING ('01101101'B)	Calling party subadd. id type
CHI_I	BITSTRING ('00011000'B)	Channel identification id type
CODN_I	BITSTRING ('01001100'B)	Connected party number id type
CODS_I	BITSTRING ('01001101'B)	Connected subaddress id type
CST_I	BITSTRING ('00010100'B)	Call state id type
DSP_I	BITSTRING ('00101000'B)	Display id type
EFAC_I	BITSTRING ('00001101'B)	Extended Facility id type
FAC_I	BITSTRING ('00011100'B)	Facility id type
KPF_I	BITSTRING ('00101100'B)	Keypad facility id type
NSF_I	BITSTRING ('00100000'B)	Network-specific fac. id type
NOID_I	BITSTRING ('00100111'B)	Notification indicator id type
PI_I	BITSTRING ('00011110'B)	Progress indicator id type
RI_I	BITSTRING ('01111001'B)	Restart indicator id type
TNS_I	BITSTRING ('01111000'B)	Transit network sel. id type
UUI_I	BITSTRING ('01111110'B)	User-user information id type
SCI	BITSTRING ('10100001'B)	Sending complete type
Detailed Comments :		

Structured Type Definition		
Type Name : CAU		
Comments : Info Element CAUse Reference to Recommendation: ETS 300 102-1 subclause 4.5.12		
Element Name	Type Definition	Comments
cau_i	CAU_I	Identifier
cau_l	BITSTRING [8]	Length
cau_e3_eb	BITSTRING [1]	Extension bit
cau_e3_cs	BITSTRING [3]	Coding standard and spare bit
cau_e3_loc	BITSTRING [4]	Location
cau_e3a	BITSTRING [8]	Recommendation
cau_e4_eb	BITSTRING [1]	Extension bit
cau_e4_cv	BITSTRING [7]	Cause value
cau_di	OCTETSTRING [1 TO 28]	Diagnostics
Detailed Comments :		

Structured Type Definition		
Type Name : CDPN Comments : Info Element Called Party Number Reference to Recommendation: ETS 300 102-1 subclause 4.5.8		
Element Name	Type Definition	Comments
cdpn_i	CDPN_I	Identifier
cdpn_l	OCTETSTRING [1]	Length
cdpn_e3_npi	OCTETSTRING [1]	Numbering plan id.
cdpn_e4_nd	OCTETSTRING [1 TO 20]	Number digits
Detailed Comments :		

Structured Type Definition		
Type Name : CDPS Comments : Info Element Called Party Subaddress Reference to Recommendation: ETS 300 102-1 subclause 4.5.9		
Element Name	Type Definition	Comments
cdps_i	CDPS_I	Identifier
cdps_l	OCTETSTRING [1]	Length
cdps_e3_tos	OCTETSTRING [1]	Type of subaddress
cdps_e4_afi	BITSTRING [8]	Authority and Format Identifier
cdps_e5_si	OCTETSTRING [1 TO 20]	Subaddress information
Detailed Comments :		

Structured Type Definition		
Type Name : CGPN Comments : Info Element Calling Party Number Reference to Recommendation: ETS 300 102-1 subclause 4.5.10		
Element Name	Type Definition	Comments
cgpn_i	CGPN_I	Identifier
cgpn_l	OCTETSTRING [1]	Length
cgpn_e3_ton	BITSTRING [4]	Type of number
cgpn_e3_npi	BITSTRING [4]	Numbering plan id.
cgpn_e4_pi	BITSTRING [3]	Presentation indicator
cgpn_e4_si	BITSTRING [5]	Screening indicator
cgpn_e5_nd	OCTETSTRING [1 TO 20]	Number digits
Detailed Comments :		

Structured Type Definition		
Type Name : CGPS Comments : Info Element Calling Party Subaddress Reference to Recommendation: ETS 300 102-1 subclause 4.5.11		
Element Name	Type Definition	Comments
cgps_i	CGPS_I	Identifier
cgps_l	OCTETSTRING [1]	Length
cgps_e3_tos	BITSTRING [4]	Type of subaddress
cgps_e3_oei	BITSTRING [1]	Odd/even indicator
cgps_e3_sp	BITSTRING [3]	Spare
cgps_e4_afi	BITSTRING [8]	Authority and Format Identifier
cgps_e5_si	OCTETSTRING [1 TO 20]	Subaddress information
Detailed Comments :		

Structured Type Definition		
Type Name : CHI Comments : Info Element CHannel Identification Reference to Recommendation: ETS 300 102-1 subclause 4.5.13		
Element Name	Type Definition	Comments
chi_i	CHI_I	Identifier
chi_l	BITSTRING [8]	Length
chi_e3_cs	BITSTRING [8]	First nibble of Channel selection
Detailed Comments :		

Structured Type Definition		
Type Name : CODN Comments : Info Element Connected Number Reference to Recommendation: ETS 300 097 subclause 7.1		
Element Name	Type Definition	Comments
codn_i	CODN_I	Identifier
codn_l	OCTETSTRING [1]	Length
codn_e3_ton	BITSTRING [4]	Type of number
codn_e3_npi	BITSTRING [4]	Numbering plan id.
codn_e3_pi	BITSTRING [3]	Presentation indicator
codn_e3_si	BITSTRING [5]	Screening indicator
codn_e4_nd	OCTETSTRING [1 TO 20]	Number digits
Detailed Comments :		

Structured Type Definition		
Type Name : CODS Comments : Info Element Connected Subaddress Reference to Recommendation: ETS 300 097 subclause 7.2		
Element Name	Type Definition	Comments
cods_i	CODS_I	Identifier
cods_l	OCTETSTRING [1]	Length
cods_e3_tos	BITSTRING [4]	Type of subaddress
cods_e3_oei	BITSTRING [1]	Odd/even indicator
cods_e3_sp	BITSTRING [3]	Spare
cods_e4_afi	BITSTRING [8]	Authority and Format Identifier
cods_e5_nd	OCTETSTRING [1 TO 20]	Number digits
Detailed Comments :		

Structured Type Definition		
Type Name : CR Comments : Call Reference Reference to Recommendation: ETS 300 102-1 subclause 4.3		
Element Name	Type Definition	Comments
cr_l	BITSTRING [8]	Length
cr_f	BITSTRING [1]	Flag
cr_r	BITSTRING [7]	Call reference value
Detailed Comments :		

Structured Type Definition		
Type Name : CST Comments : Info Element Call State Reference to Recommendation: ETS 300 102-1 subclause 4.5.7		
Element Name	Type Definition	Comments
cst_i	CST_I	Identifier
cst_l	BITSTRING [8]	Length
cst_cs	BITSTRING [2]	Coding standard
cst_csv	BITSTRING [6]	Call state value
Detailed Comments :		

Structured Type Definition		
Type Name : DSP Comments : Info Element DiSPlay Reference to Recommendation: ETS 300 102-1 subclause 4.5.15		
Element Name	Type Definition	Comments
dsp_i	DSP_I	Identifier
dsp_l	BITSTRING [8]	Length
dsp_di	OCTETSTRING [0 TO 32]	Display information
Detailed Comments :		

Structured Type Definition		
Type Name : EFAC Comments : Extended FACility Reference to Recommendation: ETS 300 196 subclause 11.2.2.4		
Element Name	Type Definition	Comments
efac_i	EFAC_I	Identifier
efac_l	OCTETSTRING [2 TO 250]	Length
efac_sd	BITSTRING [8]	Service discriminator
efac_comp	OCTETSTRING [0 TO 250]	Components
Detailed Comments :		

Structured Type Definition		
Type Name : FAC Comments : FACility Reference to Recommendation: ETS 300 102-1 subclause 4.6.2		
Element Name	Type Definition	Comments
fac_i	FAC_I	Identifier
fac_l	BITSTRING [8]	Length
fac_sd	BITSTRING [8]	Service discriminator
fac_comp	OCTETSTRING [0 TO 251]	Components
Detailed Comments :		

Structured Type Definition		
Type Name : KPF Comments : Info Element KeyPad Facility Reference to Recommendation: ETS 300 102-1 subclause 4.5.17		
Element Name	Type Definition	Comments
kpf_i	KPF_I	Identifier
kpf_l	BITSTRING [8]	Length
kpf_ki	OCTETSTRING [0 TO 32]	Keypad information
Detailed Comments :		

Structured Type Definition		
Type Name : NSF Comments : Info Element Network-Specific Facilities Reference to Recommendation: ETS 300 102-1 subclause 4.5.20		
Element Name	Type Definition	Comments
nsf_i	NSF_I	Identifier
nsf_l	BITSTRING [8]	Length
nsf_lni	BITSTRING [8]	Length of network identification
nsf_toni	BITSTRING [4]	Type of network identification
nsf_nip	BITSTRING [4]	Network identification plan
nsf_ni	OCTETSTRING [0 TO 125]	Network identification
nsf_nsfs	OCTETSTRING [0 TO 125]	Network-specific facility specification
Detailed Comments :		

Structured Type Definition		
Type Name : NOID Comments : Info Element NOTification InDicator Reference to Recommendation: ETS 300 102-1 subclause 4.5.21		
Element Name	Type Definition	Comments
noid_i	NOID_I	Identifier
noid_l	BITSTRING [8]	Length
noid_e3_nd	OCTETSTRING [0 TO 252]	Notification description
Detailed Comments :		

Structured Type Definition		
Type Name : PI Comments : Info Element Progress Indicator Reference to Recommendation: ETS 300 102-1 subclause 4.5.22		
Element Name	Type Definition	Comments
pi_i	PI_I	Identifier
pi_l	BITSTRING [8]	Length
pi_e3_loc	BITSTRING [8]	Location
pi_e4_fv	BITSTRING [1]	Fixed value '1'B
pi_e4_pd	BITSTRING [7]	Progress description
Detailed Comments :		

Structured Type Definition		
Type Name : RI Comments : Info Element Restart Indicator Reference to Recommendation: ETS 300 102-1 subclause 4.5.24		
Element Name	Type Definition	Comments
ri_i	RI_I	Identifier
ri_l	BITSTRING [8]	Length
ri_cl	BITSTRING [5]	Fixed value '10000'B
ri_cl1	BITSTRING [3]	Class
Detailed Comments :		

Structured Type Definition		
Type Name : TNS Comments : Info Element Transit Network Selection Reference to Recommendation: ETS 300 102-1 subclause 4.5.28		
Element Name	Type Definition	Comments
tns_i	TNS_I	Identifier
tns_l	BITSTRING [8]	Length
tns_toni	BITSTRING [4]	Type of network identification
tns_nip	BITSTRING [4]	Network identification plan
tns_ni	OCTETSTRING [0 TO 251]	Network identification
Detailed Comments :		

Structured Type Definition		
Type Name : UUI Comments : Info Element User-user Reference to Recommendation: ETS 300 102-1 subclause 4.5.29		
Element Name	Type Definition	Comments
uui_i	UUI_I	Identifier
uui_l	BITSTRING [8]	Length
uui_pd	BITSTRING [8]	Protocol discriminator
uui_uic	OCTETSTRING [0 TO 128]	User information
Detailed Comments :		

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
BDL	BOOLEAN	BC_PICS MC2.5	TRUE, if the broadcast data link is used
T316max	INTEGER	BC_PICS TM14	T316max = T316 + 5% ; default: 126 sec
CDPSL1	OCTETSTRING	SUB_PIXIT 2.1	called party subaddress length value, even number
CDPSL2	OCTETSTRING	SUB_PIXIT 2.2	called party subaddress length value, odd number
CDPSL3	OCTETSTRING	SUB_PIXIT 2.3	called party subaddress length value, invalid number
CDPSV1	OCTETSTRING	SUB_PIXIT 2.4	called party subaddress value, even number
CDPSV2	OCTETSTRING	SUB_PIXIT 2.5	called party subaddress value, odd number
ICDPSV	OCTETSTRING	SUB_PIXIT 2.6	invalid called party subaddress value
BCAPV	OCTETSTRING	BC_PIXIT 1.1	bearer capability value
LIPN	OCTETSTRING	BC_PIXIT 1.6	party number length value
IPN	OCTETSTRING	BC_PIXIT 1.6	party number value
LLCV	OCTETSTRING	BC_PIXIT 1.5	low layer compatibility value
HLCV	OCTETSTRING	BC_PIXIT 1.4	high layer compatibility value
Detailed Comments : The relevant PICS and PIXIT items can be found in the following standards: SUB_PIXIT: ETS 300 061-4 Annex B BC_PICS: I-ETS 300 314 BC_PIXIT: I-ETS 300 318			

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
CREF	BITSTRING	'0000001'B	call reference value BITSTRING[7] octet 2, bits 7 to 1
C	INTEGER	0	used as retransmission counter
STAT_TRANSM	BOOLEAN	FALSE	used to handle the reception of STATUS PDUs
bch_num	BITSTRING	'10001001'B	used to store octet 3 of the channel identification information element BITSTRING[8]
NOT_FL	INTEGER	0	used to invert flag, represents a BITSTRING[1]
ECV	INTEGER	-1	Expected Cause value, represents a BITSTRING[7]
Detailed Comments :			

PCO Declarations			
PCO Name	PCO Type	Role	Comments
L	SAP	LT	SAP at the lower tester controlling and observing the exchange of call control PDUs (messages) on the ISDN layer 3 D-channel. The lower tester is the user of the data link layer service
Detailed Comments :			

Timer Declarations			
Timer Name	Duration	Unit	Comments
T316MAX	T316max	s	REST1 RESTART sent
TAC	32	s	(2)
TNOAC	2	s	(3)
Detailed Comments : (1) Lower tester is waiting for test operator initiated test event. (2) Lower tester is waiting for IUT initiated test event (timer used for test synchronisation). (3) Lower tester is checking for IUT inactivity.			

ASP Type Definition		
ASP Name : DL_EST_RQ (DL_ESTABLISH_Request) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the establishment of multiple frame operation (L3 ---> L2)		
Parameter Name	Parameter Type	Comments
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EST_IN (DL_ESTABLISH_Indication) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the establishment of multiple frame operation (L2 ---> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EST_CO (DL_ESTABLISH_Confirm) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to confirm the establishment of multiple frame operation (L2 ---> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_REL_RQ (DL_RELEASE_Request) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the termination of an established multiple frame operation (L3 ---> L2)		
Parameter Name	Parameter Type	Comments
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_REL_IN (DL_RELEASE_Indication) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) 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
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_REL_CO (DL_RELEASE_Confirm) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to confirm the termination of an established multiple frame operation (L2 ---> L3)		
Parameter Name	Parameter Type	Comments
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_RQ(DL_DATA_Request) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the transmission of layer-3 pdus (L3 ---> L2)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	PDU	contains network layer (peer-to-peer message) pdu. acknowledged operation used.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UDAT_RQ(DL_UNIT_DATA_Request) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to request the transmission of layer-3 pdus (L3 ---> L2)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	PDU	contains network layer (peer-to-peer message) pdu. unacknowledged operation used.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_IN(DL_DATA_Indication) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the receipt of layer-3 pdus (L2 ---> L3)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	PDU	contains network layer (peer-to-peer message) pdu. acknowledged operation used.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_IN_CONN (DL_DATA_Indication) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the receipt of CONNECT pdus (L2 ---> L3)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	CONN_PDU	contains CONNECT pdu. acknowledged operation used.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_IN_RESTART (DL_DATA_Indication) PCO Type : SAP Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) ASP is used to indicate the receipt of RESTART pdus (L2 ---> L3)		
Parameter Name	Parameter Type	Comments
mun (Message Unit)	RESTART_PDU	contains RESTART pdu. acknowledged operation used.
Detailed Comments :		

PDU Type Definition		
PDU Name : ALERT_PDU PCO Type : SAP Comments : ALERTing u <-> n Reference to Recommendation: ETS 300 102-1 subclause 3.1.1		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
efac	EFAC	extended facility O OCTETSTRING[2..254]
chi	CHI	channel identification C OCTETSTRING[2..5]
fac	FAC	facility O OCTETSTRING[2..254]
pi	PI	progress indicator O OCTETSTRING[2..4]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
uui	UII	user-user information O OCTETSTRING[2..131]
Detailed Comments :		

PDU Type Definition		
PDU Name : CALL_PROC_PDU PCO Type : SAP Comments : CALL PROCeeding u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.1.2		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
efac	EFAC	extended facility O OCTETSTRING[2..254]
chi	CHI	channel identification C OCTETSTRING[2..5]
fac	FAC	facility O OCTETSTRING[2..254]
pi	PI	progress indicator O OCTETSTRING[2..4]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
Detailed Comments :		

PDU Type Definition		
PDU Name : CONN_PDU PCO Type : SAP Comments : CONNect u <-> n Reference to Recommendation: ETS 300 102-1 subclause 3.1.4		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
efac	EFAC	extended facility O OCTETSTRING[2..254]
chi	CHI	channel identification C OCTETSTRING[2..5]
fac	FAC	facility O OCTETSTRING[2..254]
pi	PI	progress indicator O OCTETSTRING[2..4]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
codn	CODN	connected number O OCTETSTRING[2..24]
cods	CODS	connected subaddress O OCTETSTRING[2..24]
llc	OCTETSTRING [0 TO 16]	low layer compatib. O
uui	UUI	user-user information O OCTETSTRING[2..131]
Detailed Comments :		

PDU Type Definition		
PDU Name : INFO_PDU PCO Type : SAP Comments : INFOrmation u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.1.8		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
sci	SCI	sending complete information O BITSTRING[8]
cau	CAU	cause O OCTETSTRING[2..32]
efac	EFAC	extended facility O OCTETSTRING[2..254]
fac	FAC	facility O OCTETSTRING[2..254]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
kpf	KPF	keypad facility (n ->u) O OCTETSTRING[2..34]
cdpn	CDPN	called party number O OCTETSTRING[2..23]
Detailed Comments :		

PDU Type Definition		
PDU Name : NOTIFY_PDU PCO Type : SAP Comments : NOTIFY u <-> n access Reference to Recommendation: ETS 300 102-1 subclause 3.1.9		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
noid	NOID	notification indicator M OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
Detailed Comments :		

PDU Type Definition		
PDU Name : GFP_MSG_PDU PCO Type : SAP Comments : u -> n Reference to Recommendation: ETS 300 196		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[2..3]
mt	GFP_MT_LIST	message type M BITSTRING[8]
ie_list	OCTETSTRING	information elements O
Detailed Comments :		

PDU Type Definition		
PDU Name : REL_PDU PCO Type : SAP Comments : RELease u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.1.11		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
cau	CAU	cause C OCTETSTRING[2..32]
efac	EFAC	extended facility O OCTETSTRING[2..254]
fac	FAC	facility O OCTETSTRING[2..254]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
uui	UUI	user-user information O OCTETSTRING[2..131]
Detailed Comments :		

PDU Type Definition		
PDU Name : REL_COM_PDU PCO Type : SAP Comments : RELease COMplete u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.1.12		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
cau	CAU	cause C OCTETSTRING[2..32]
efac	EFAC	extended facility O OCTETSTRING[2..254]
fac	FAC	facility O OCTETSTRING[2..254]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
uui	UII	user-user information O OCTETSTRING[2..131]
Detailed Comments :		

PDU Type Definition		
PDU Name : RESTART_PDU PCO Type : SAP Comments : RESTART u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.4.1		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
chi	CHI	channel identification O OCTETSTRING[2..5]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
ri	RI	restart indicator O OCTETSTRING[3]
Detailed Comments :		

PDU Type Definition		
PDU Name : RESTART_ACK_PDU PCO Type : SAP Comments : RESTART ACKnowledge u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.4.2		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
chi	CHI	channel identification O OCTETSTRING[2..5]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
ri	RI	restart indicator O OCTETSTRING[3]
Detailed Comments :		

PDU Type Definition		
PDU Name : SETUP_PDU PCO Type : SAP Comments : SETUP u <-> n Reference to Recommendation: ETS 300 102-1 subclause 3.1.16		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
sci	SCI	sending compl. information O BITSTRING[8]
bcap	OCTETSTRING [4 TO 13]	bearer capab. n ->u M
efac	EFAC	extended facility O OCTETSTRING[2..254]
chi	CHI	channel identification C OCTETSTRING[2..5]
fac	FAC	facility O OCTETSTRING[2..254]
pi	PI	progress indicator O OCTETSTRING[2..4]
nsf	NSF	net. specific facil. O OCTETSTRING[2..254]
noid	NOID	notification indicator O OCTETSTRING[2..254]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
kpf	KPF	keypad facility n ->u O OCTETSTRING[2..34]
cgpn	CGPN	calling party number O OCTETSTRING[2..24]
cgps	CGPS	calling party subaddr. O OCTETSTRING[2..23]
cdpn	CDPN	called party number O OCTETSTRING[2..24]
cdps	CDPS	called party subaddr. O OCTETSTRING[2..23]
tns	TNS	transit net. select. O OCTETSTRING[2..254]
llc	OCTETSTRING [0 TO 16]	low layer compatib. O
hlc	OCTETSTRING [0 TO 4]	high layer compat. O
uui	UUI	user-user information O OCTETSTRING[2..131]
Detailed Comments :		

PDU Type Definition		
PDU Name : STATUS_PDU PCO Type : SAP Comments : STATUS u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.1.18		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
cau	CAU	cause M OCTETSTRING[2..32]
cst	CST	call state M OCTETSTRING[3]
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
Detailed Comments :		

PDU Type Definition		
PDU Name : ST_ENQ_PDU PCO Type : SAP Comments : SStatus_ENQuiry u <-> n local Reference to Recommendation: ETS 300 102-1 subclause 3.1.19		
Field Name	Field Type	Comments
pd	BITSTRING [8]	protocol discriminator M
cr	CR	call reference M OCTETSTRING[3]
mt	BITSTRING [8]	message type M
dsp	DSP	display (n ->u) O OCTETSTRING[2..34]
Detailed Comments :		

Alias Definitions		
Alias Name	Expansion	Comments
REL	DL_DAT_RQ	REL pdu
REL_COM	DL_DAT_RQ	REL_COM pdu
RESTART_ACK	DL_DAT_RQ	RESTART_ACK pdu
SETUP	DL_UDAT_RQ	SETUP pdu (1)
ST_ENQ	DL_DAT_RQ	ST_ENQ pdu
ALERTr	DL_DAT_IN	ALERT pdu
CALL_PROCr	DL_DAT_IN	CALL_PROC pdu
CONNR	DL_DAT_IN_CONN	CONN ACK pdu
INFOR	DL_DAT_IN	INFO pdu
Q932_MSGr	DL_DAT_IN	Q932 pdu
NOTIFYr	DL_DAT_IN	NOTIFY pdu
RELR	DL_DAT_IN	REL pdu
REL_COMr	DL_DAT_IN	REL_COM pdu
RESTARTr	DL_DAT_IN_RESTART	RESTART pdu
STATUSr	DL_DAT_IN	STATUS pdu
ST_ENQr	DL_DAT_IN	ST_ENQ pdu
Detailed Comments : (1)To switch between the testing of point-to-point and point-to-multipoint configurations, DL_DAT_RQ has to be exchanged by DL_UDAT_RQ. The same change has to be made in the TTCN ASP Constraint Declaration table for Ss.		

III

Constraints Part

Structured Type Constraint Declaration		
Constraint Name : CAU2 (CVAL: INTEGER) Structured Type : CAU Derivation Path : Comments :		
Element Name	Element Value	Comments
cau_i	'00001000'B	
cau_l	'00000010'B	
cau_e3_loc	'10000010'B	
cau_e4_eb	'1'B	
cau_e4_cv	INT_TO_BIT (CVAL , 7)	
cau_di	-	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CAU4 (CVAL: INTEGER) Structured Type : CAU Derivation Path : Comments :		
Element Name	Element Value	Comments
cau_i	'00001000'B	
cau_l	?	
cau_e3_loc	?	
cau_e4_eb	'1'B	
cau_e4_cv	INT_TO_BIT (CVAL , 7)	
cau_di	*	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CDPN1 Structured Type : CDPN Derivation Path : Comments :		
Element Name	Element Value	Comments
cdpn_i	'01110000'B	
cdpn_l	LIPN	
cdpn_e3_npi	'81'O	
cdpn_e4_nd	IPN	
Detailed Comments : LIPN and IPN are test suite parameters		

Structured Type Constraint Declaration		
Constraint Name : CDPS1		
Structured Type : CDPS		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL1	
cdps_e3_tos	'A0'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	CDPSV1	
Detailed Comments : Called party subaddress with matching digits		

Structured Type Constraint Declaration		
Constraint Name : CDPS2		
Structured Type : CDPS		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL3	
cdps_e3_tos	'A0'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	ICDPSV	
Detailed Comments : Called party subaddress with mis-matching digits		

Structured Type Constraint Declaration		
Constraint Name : CDPS3		
Structured Type : CDPS		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL1	
cdps_e3_tos	'80'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	CDPSV1	
Detailed Comments : Called party subaddress with matching digits, TOS = NSAP		

Structured Type Constraint Declaration		
Constraint Name : CDPS4 Structured Type : CDPS Derivation Path : Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL2	
cdps_e3_tos	'A8'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	CDPSV2	
Detailed Comments : Called party subaddress with matching digits, TOS = user specified		

Structured Type Constraint Declaration		
Constraint Name : CDPS5 Structured Type : CDPS Derivation Path : Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL1	
cdps_e3_tos	'F0'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	CDPSV1	
Detailed Comments : Called party subaddress with matching digits, TOS = reserved value		

Structured Type Constraint Declaration		
Constraint Name : CDPS6 Structured Type : CDPS Derivation Path : Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL1	
cdps_e3_tos	'A0'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	CDPSV1	
Detailed Comments : Called party subaddress with matching digits, odd/even indicator = even		

Structured Type Constraint Declaration		
Constraint Name : CDPS7 Structured Type : CDPS Derivation Path : Comments :		
Element Name	Element Value	Comments
cdps_i	'01110001'B	
cdps_l	CDPSL2	
cdps_e3_tos	'88'O	
cdps_e4_afi	'01010000'B	
cdps_e5_si	CDPSV2	
Detailed Comments : Called party subaddress with matching digits, odd/even indicator = odd		

Structured Type Constraint Declaration		
Constraint Name : CHI3(CHN: BITSTRING) Structured Type : CHI Derivation Path : Comments :		
Element Name	Element Value	Comments
chi_i	'00011000'B	
chi_l	'00000001'B	
chi_e3_cs	CHN	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CHI6 Structured Type : CHI Derivation Path : Comments :		
Element Name	Element Value	Comments
chi_i	'00011000'B	
chi_l	'00000001'B	
chi_e3_cs	'1000?0??'B	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CR1(CALL_REF: BITSTRING)		
Structured Type : CR		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cr_l	'00000001'B	
cr_f	'1'B	
cr_r	CALL_REF	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CR2(CALL_REF: BITSTRING)		
Structured Type : CR		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cr_l	'00000001'B	
cr_f	'0'B	
cr_r	CALL_REF	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CR3(FLAG: INTEGER; CALL_REF: BITSTRING)		
Structured Type : CR		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cr_l	'00000001'B	
cr_f	INT_TO_BIT(FLAG ,1)	
cr_r	CALL_REF	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CR4(CALL_REF: BITSTRING)		
Structured Type : CR		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cr_l	'00000001'B	
cr_f	?	
cr_r	CALL_REF	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CR6(FLAG: INTEGER)		
Structured Type : CR		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cr_l	'00000001'B	
cr_f	INT_TO_BIT(FLAG ,1)	
cr_r	'00000000'B	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CST1		
Structured Type : CST		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cst_i	'00010100'B	
cst_l	'00000001'B	
cst_cs	?	
cst_csv	?	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : CST2(CSTV: INTEGER)		
Structured Type : CST		
Derivation Path :		
Comments :		
Element Name	Element Value	Comments
cst_i	‘00010100’B	
cst_l	‘00000001’B	
cst_cs	‘00’B	
cst_csv	INT_TO_BIT (CSTV , 6)	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : NOID1 Structured Type : NOID Derivation Path : Comments :		
Element Name	Element Value	Comments
noid_i	'00100111'B	
noid_l	'00000001'B	
noid_e3_nd	?	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : RI1(CLV: INTEGER) Structured Type : RI Derivation Path : Comments :		
Element Name	Element Value	Comments
ri_i	'01111001'B	
ri_l	'00000001'B	
ri_cl	'10000'B	
ri_cll	INT_TO_BIT(CLV, 3)	
Detailed Comments :		

Structured Type Constraint Declaration		
Constraint Name : RI4 Structured Type : RI Derivation Path : Comments :		
Element Name	Element Value	Comments
ri_i	'01111001'B	
ri_l	'00000001'B	
ri_cl	'10000'B	
ri_cll	'000'B	
Detailed Comments : This information element is only used for point-to-point testing		

ASP Constraint Declaration		
Constraint Name : Ms(PARAM: PDU)		
ASP Type : DL_DAT_RQ		
Derivation Path :		
Comments : ASP to request the sending of layer 3 messages.		
Parameter Name	Parameter Value	Comments
mun	PARAM	PDU to be sent
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Ss(PARAM: PDU)		
ASP Type : DL_UDAT_RQ		
Derivation Path :		
Comments : ASP to request the sending of SETUP messages.		
Parameter Name	Parameter Value	Comments
mun	PARAM	SETUP to be sent
Detailed Comments : To switch between the testing of point-to-point and point-to-multipoint configurations, DL_DAT_RQ has to be exchanged by DL_UDAT_RQ. The same change has to be made in the Alias table.		

ASP Constraint Declaration		
Constraint Name : Cr(PARAM: CONN_PDU)		
ASP Type : DL_DAT_IN_CONN		
Derivation Path :		
Comments : ASP to indicate the receipt of CONNECT messages.		
Parameter Name	Parameter Value	Comments
mun	PARAM	CONNECT to be received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Mr(PARAM: PDU)		
ASP Type : DL_DAT_IN		
Derivation Path :		
Comments : ASP to indicate the receipt of layer 3 messages.		
Parameter Name	Parameter Value	Comments
mun	PARAM	PDU to be received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Rr(PARAM: RESTART_PDU)		
ASP Type : DL_DAT_IN_RESTART		
Derivation Path :		
Comments : ASP to indicate the receipt of RESTART messages.		
Parameter Name	Parameter Value	Comments
mun	PARAM	RESTART to be received
Detailed Comments :		

PDU Constraint Declaration		
Constraint Name : AL1(CALL_REF: BITSTRING)		
PDU Type : ALERT_PDU(ALERTING)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR1(CALL_REF)	
mt	'00000001'B	
efac	*	
chi	*	
fac	*	
pi	*	
noid	*	
dsp	-	
uui	*	
Detailed Comments : Receive PDU with "don't care" values; CHI mandatory parameter, if in 1st PDU in response to SETUP unless user accepts the specific B-channel; PI is used in connection with interworking or in band information patterns; optional parameter; DSP optional LT parameter; no IUT parameter; UUI optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : CP1(CALL_REF: BITSTRING)		
PDU Type : CALL_PROC_PDU(CALL PROCEEDING)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR1(CALL_REF)	
mt	'00000010'B	
efac	*	
chi	*	
fac	*	
pi	*	
noid	*	
dsp	-	
Detailed Comments : Receive PDU with "don't care" values; CHI mandatory parameter, if in 1st PDU in response to SETUP unless user accepts the specific B-channel; PI is used in connection with interworking or in band information patterns; optional parameter; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : CN1(CALL_REF: BITSTRING)		
PDU Type : CONN_PDU(CONNECT)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR1(CALL_REF)	
mt	'00000111'B	
efac	*	
chi	*	
fac	*	
pi	*	
noid	*	
dsp	—	
codn	*	
cods	*	
llc	*	
uui	*	
Detailed Comments : Receive PDU with "don't care" values; CHI mandatory parameter, if in 1st PDU in response to SETUP unless user accepts the specific B-channel; PI is used in connection with interworking or in band information patterns; optional parameter; DSP optional LT parameter; no IUT parameter; LLC optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : IN4(CALL_REF: BITSTRING)		
PDU Type : INFO_PDU(INFORMATION)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR4(CALL_REF)	
mt	'01111011'B	
sci	*	
cau	—	
efac	*	
fac	*	
noid	*	
dsp	—	
kpf	*	
cdpn	*	
Detailed Comments : Receive PDU with "don't care" values; DSP optional LT parameter; no IUT parameter; CPDN optional LT and IUT parameter used during overlap procedures;		

PDU Constraint Declaration		
Constraint Name : MSG(CALL_REF: BITSTRING)		
PDU Type : GFP_MSG_PDU		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR4(CALL_REF)	
mt	?	
ie_list	*	
Detailed Comments : Receive PDU with a valid CREF. Used for test cases where PDUs must be absorbed by the tester;		

PDU Constraint Declaration		
Constraint Name : NO3(CALL_REF: BITSTRING)		
PDU Type : NOTIFY_PDU(NOTIFY)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR4(CALL_REF)	
mt	'01101110'B	
noid	NOID1	
dsp	-	
Detailed Comments : Receive PDU with "don't care" values in CR and NOID; NOID mandatory LT and IUT parameter; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RL2(FLAG: INTEGER; CALL_REF: BITSTRING ; CVAL: INTEGER)		
PDU Type : REL_PDU(RELEASE)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01001101'B	
cau	CAU4 (CVAL)	
efac	*	
fac	*	
noid	*	
dsp	—	
uui	*	
Detailed Comments : Receive PDU with "don't care" values; DSP optional LT parameter; no IUT parameter; UUI optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RL3(FLAG: INTEGER; CALL_REF: BITSTRING ; CVAL: INTEGER)		
PDU Type : REL_PDU(RELEASE)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	‘00001000’B	
cr	CR3(FLAG,CALL_REF)	
mt	‘01001101’B	
cau	CAU2 (CVAL)	
efac	–	
fac	–	
noid	–	
dsp	–	
uui	–	
Detailed Comments : Send PDU with optional parameters; CAU optional LT and IUT parameter; mandatory if REL is 1st clearing PDU or as a result of T305 expiry; DSP optional LT parameter; no IUT parameter; UUI optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RC1(FLAG: INTEGER; CALL_REF: BITSTRING)		
PDU Type : REL_COM_PDU(RELEASE COMPLETE)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01011010'B	
cau	*	
efac	*	
fac	*	
noid	*	
dsp	-	
uui	*	
Detailed Comments : Receive PDU with "don't care" values; CAU optional LT and IUT parameter; mandatory in the 1st clearing message; DSP optional LT parameter; no IUT parameter; UUI optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RC2(FLAG: INTEGER; CALL_REF: BITSTRING ; CVAL: INTEGER) PDU Type : REL_COM_PDU(RELEASE COMPLETE) Derivation Path : Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01011010'B	
cau	CAU2 (CVAL)	
efac	-	
fac	-	
noid	-	
dsp	-	
uui	-	
Detailed Comments : Send PDU without optional parameters; FLAG and CVAL are used as constraints parameter; RC2(FLAG,CVAL); CAU optional LT and IUT parameter; mandatory in the 1st clearing message; DSP optional LT parameter; no IUT parameter; UUI optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RC3(FLAG: INTEGER; CALL_REF: BITSTRING ; CVAL: INTEGER) PDU Type : REL_COM_PDU(RELEASE COMPLETE) Derivation Path : Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01011010'B	
cau	CAU4 (CVAL)	
efac	*	
fac	*	
noid	*	
dsp	-	
uui	*	
Detailed Comments : Receive PDU with "don't care" values; DSP optional LT parameter; no IUT parameter; UUI optional LT and IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RST1(FLAG: INTEGER ; CLV: INTEGER)		
PDU Type : RESTART_PDU(RESTART)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR6(FLAG)	
mt	'01000110'B	
chi	-	
dsp	-	
ri	RI1 (CLV)	
Detailed Comments : Receive PDU without optional parameters; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RST3(FLAG: INTEGER ; CLV: INTEGER)		
PDU Type : RESTART_PDU(RESTART)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR6(FLAG)	
mt	'01000110'B	
chi	CHI6	
dsp	-	
ri	RI1 (CLV)	
Detailed Comments : Receive PDU with "don't care" values in CHI; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RSA2(FLAG: INTEGER ; CHN: BITSTRING)		
PDU Type : RESTART_ACK_PDU(RESTART ACKNOWLEDGE)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR6(FLAG)	
mt	'01001110'B	
chi	CHI3(CHN)	
dsp	-	
ri	RI4	
Detailed Comments : Receive PDU with optional parameter CHI; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : RSA5 (FLAG: INTEGER ; CLV: INTEGER)		
PDU Type : RESTART_ACK_PDU (RESTART ACKNOWLEDGE)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR6 (FLAG)	
mt	'01001110'B	
chi	-	
dsp	-	
ri	RI1 (CLV)	
Detailed Comments : Send PDU without optional parameters that indicates 'all interfaces' or 'single interface'; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : SU80(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS1	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e. with matching digits;		

PDU Constraint Declaration		
Constraint Name : SU81(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS2	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e. with mis-matching digits;		

PDU Constraint Declaration		
Constraint Name : SU83(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	-	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP without a Called subaddress i.e.;		

PDU Constraint Declaration		
Constraint Name : SU84(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS3	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e.;		

PDU Constraint Declaration		
Constraint Name : SU85(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS4	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e.;		

PDU Constraint Declaration		
Constraint Name : SU86(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS5	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e.;		

PDU Constraint Declaration		
Constraint Name : SU87(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgpn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS6	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e.;		

PDU Constraint Declaration		
Constraint Name : SU88(CALL_REF, CHN: BITSTRING)		
PDU Type : SETUP_PDU(SETUP)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR2(CALL_REF)	
mt	'00000101'B	
sci	'10100001'B	
bcap	BCAPV	
efac	-	
chi	CHI3(CHN)	
fac	-	
pi	-	
nsf	-	
noid	-	
dsp	-	
kpf	-	
cgn	-	
cgps	-	
cdpn	CDPN1	
cdps	CDPS7	
tns	-	
llc	LLCV	
hlc	HLCV	
uui	-	
Detailed Comments : Send PDU; SETUP with a Called subaddress i.e.;		

PDU Constraint Declaration		
Constraint Name : ST3(FLAG: INTEGER; CALL_REF: BITSTRING ; CVAL: INTEGER ; CSTV: INTEGER)		
PDU Type : STATUS_PDU(STATUS)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01111101'B	
cau	CAU4 (CVAL)	
cst	CST2 (CSTV)	
dsp	-	
Detailed Comments : Receive PDU with "don't care" values in CAU; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : ST6(FLAG: INTEGER; CALL_REF: BITSTRING ; CVAL: INTEGER)		
PDU Type : STATUS_PDU(STATUS)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01111101'B	
cau	CAU4 (CVAL)	
cst	CST1	
dsp	-	
Detailed Comments : Receive PDU with "don't care" values in CAU and CST; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : SQ1(FLAG: INTEGER; CALL_REF: BITSTRING)		
PDU Type : ST_ENQ_PDU(STATUS ENQUIRY)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR3(FLAG,CALL_REF)	
mt	'01110101'B	
dsp	-	
Detailed Comments : Send PDU without optional parameters; DSP optional LT parameter; no IUT parameter;		

PDU Constraint Declaration		
Constraint Name : SQ3(CALL_REF: BITSTRING)		
PDU Type : ST_ENQ_PDU(STATUS ENQUIRY)		
Derivation Path :		
Comments :		
Field Name	Field Value	Comments
pd	'00001000'B	
cr	CR4(CALL_REF)	
mt	'01110101'B	
dsp	-	
Detailed Comments : Receive PDU with "don't care" values in CR; DSP optional LT parameter; no IUT parameter;		

IV

Dynamic Part

Test Case Dynamic Behaviour

Test Case Name : SUB_U01_001

Group : SUB/User_S_T/

Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with matching digits, handles the call following the basic call procedures.

Configuration :

Default : DF69901 (0)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ PR30001			preamble to U0
2		L!SETUP START TAC	Ss(SU80(CREF,bch_num))		SETUP with SUB
3	L1	L?CALL_PROCr CANCEL TAC	Mr(CP1(CREF))	(P)	
4		+ CS59901 (9, 0)			state=9?
5		L?ALERTr CANCEL TAC	Mr(AL1(CREF))	(P)	
6		+ CS59901 (7, 0)			state=7?
7		L?CONNr CANCEL TAC	Cr(CN1(CREF))	(P)	
8		+ CS59901 (8, 0)			state=8?
9		?TIMEOUT TAC		(F)	TAC timeout
10		+ PO49901 (0)			postamble U0
11		+ UM59902			unexpected message
12		GOTO L1			

Detailed Comments : References to Recommendations
EN 300 061-1

Test Case Dynamic Behaviour					
Test Case Name : SUB_U01_002					
Group : SUB/User_S_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with mis-matching digits, does not accept the call and remains in the same state.					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001	Ss(SU81(CREF,bch_num)) Mr(RC3(1,CREF,88))	(P)	preamble to U0
2		L!SETUP START TAC			SETUP with SUB
3		L?REL_COMr CANCEL TAC			
4		+ CS50001 (0)			state = 0?
5		?TIMEOUT TAC			no response
6		[BDL]			
7		+ CS50001 (0)			state = 0?
8		[NOT BDL]			(F)
9		+ PO49901 (0)			
10		+ UM59902			postamble U0 unexpected message
11		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Case Dynamic Behaviour					
Test Case Name : SUB_U01_003					
Group : SUB/User_S_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message without the Called party subaddress information element, handles the call following the basic call procedures.					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001	Ss(SU83(CREF,bch_num)) Mr(CP1(CREF)) Mr(AL1(CREF)) Cr(CN1(CREF))	(P)	preamble to U0
2		L!SETUP START TAC			SETUP
3		L?CALL_PROCr CANCEL TAC			state=9?
4		+ CS59901 (9, 0)			state=7?
5		L?ALERTr CANCEL TAC			state=8?
6		+ CS59901 (7, 0)			TAC timeout
7		L?CONNr CANCEL TAC			postamble U0
8		+ CS59901 (8, 0)			unexpected message
9		?TIMEOUT TAC			
10		+ PO49901 (0)			
11		+ UM59902			
12		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Case Dynamic Behaviour					
Test Case Name : SUB_U02_001					
Group : SUB/User_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with the type of subaddress encoded as "NSAP", handles the call following the basic call procedures.					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001	Ss(SU84(CREF,bch_num)) Mr(CP1(CREF)) Mr(AL1(CREF)) Cr(CN1(CREF))	(P) (F)	preamble to U0
2		L!SETUP START TAC			SETUP
3		L?CALL_PROCr CANCEL TAC			state=9?
4		+ CS59901 (9, 0)			
5		L?ALERTr CANCEL TAC			state=7?
6		+ CS59901 (7, 0)			
7		L?CONNR CANCEL TAC			state=8?
8		+ CS59901 (8, 0)			TAC timeout
9		?TIMEOUT TAC			postamble U0
10		+ PO49901 (0)			unexpected message
11		+ UM59902			
12		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Case Dynamic Behaviour					
Test Case Name : SUB_U02_002					
Group : SUB/User_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with the type of subaddress encoded as "User specified", handles the call following the basic call procedures.					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001			preamble to U0
2		L!SETUP START TAC	Ss(SU85(CREF,bch_num))		SETUP
3		L?CALL_PROCr CANCEL TAC	Mr(CP1(CREF))	(P)	state=9?
4		+ CS59901 (9, 0)			state=7?
5		L?ALERTr CANCEL TAC	Mr(AL1(CREF))	(P)	state=8?
6		+ CS59901 (7, 0)			TAC timeout
7		L?CONNR CANCEL TAC	Cr(CN1(CREF))	(P)	postamble U0
8		+ CS59901 (8, 0)			unexpected message
9		?TIMEOUT TAC		(F)	
10		+ PO49901 (0)			
11		+ UM59902			
12		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Case Dynamic Behaviour					
Test Case Name : SUB_U02_003					
Group : SUB/User_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with the type of subaddress encoded as a reserved value, handles the call following the basic call procedures (and ignores the remaining information in the received Called party subaddress) and optionally sends a STATUS message containing a Cause information element with cause value #100 "invalid information element contents".					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001			preamble to U0
2		(STAT_TRANSM:= FALSE, ECV:= 100)			
3		L!SETUP START TAC	Ss(SU86(CREF,bch_num))		SETUP
4		L?CALL_PROCr CANCEL TAC	Mr(CP1(CREF))	(P)	
5		+ CS59901 (9, 0)			state=9?
6		L?ALERTr CANCEL TAC	Mr(AL1(CREF))	(P)	
7		+ CS59901 (7, 0)			state=7?
8		L?CONNR CANCEL TAC	Cr(CN1(CREF))	(P)	
9		+ CS59901 (8, 0)			state=8?
10		L?STATUSr [STAT_TRANSM = FALSE]	Mr(ST6(1,CREF,ECV))	(P)	valid STATUS
11		(STAT_TRANSM:= TRUE)			
12		GOTO L1			
13		?TIMEOUT TAC		(F)	TAC timeout
14		+ PO49901 (0)			postamble U0
15		+ UM59902			unexpected message
16		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Case Dynamic Behaviour					
Test Case Name : SUB_U02_004					
Group : SUB/User_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with the odd/even indicator encoded as "even", handles the call following the basic call procedures.					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001			preamble to U0
2		L!SETUP START TAC	Ss(SU87(CREF,bch_num))		SETUP
3		L?CALL_PROCr CANCEL TAC	Mr(CP1(CREF))	(P)	state=9?
4		+ CS59901 (9, 0)			
5		L?ALERTr CANCEL TAC	Mr(AL1(CREF))	(P)	state=7?
6		+ CS59901 (7, 0)			
7		L?CONNR CANCEL TAC	Cr(CN1(CREF))	(P)	state=8?
8		+ CS59901 (8, 0)			
9		?TIMEOUT TAC		(F)	TAC timeout
10		+ PO49901 (0)			postamble U0
11		+ UM59902			unexpected message
12		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Case Dynamic Behaviour					
Test Case Name : SUB_U02_005					
Group : SUB/User_T/					
Purpose : Ensure that the IUT in the Null call state U00, receiving a valid and compatible SETUP message containing a Called party subaddress information element with the odd/even indicator encoded as "odd", handles the call following the basic call procedures.					
Configuration :					
Default : DF69901 (0)					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	+ PR30001			preamble to U0
2		L!SETUP START TAC	Ss(SU88(CREF,bch_num))		SETUP
3		L?CALL_PROCr CANCEL TAC	Mr(CP1(CREF))	(P)	state=9?
4		+ CS59901 (9, 0)			
5		L?ALERTr CANCEL TAC	Mr(AL1(CREF))	(P)	state=7?
6		+ CS59901 (7, 0)			
7		L?CONNR CANCEL TAC	Cr(CN1(CREF))	(P)	state=8?
8		+ CS59901 (8, 0)			
9		?TIMEOUT TAC		(F)	TAC timeout
10		+ PO49901 (0)			postamble U0
11		+ UM59902			unexpected message
12		GOTO L1			
Detailed Comments : References to Recommendations EN 300 061-1					

Test Step Dynamic Behaviour					
Test Step Name : PR30001 Group : Objective : To bring the IUT to the Null state U0. Default : Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_REL_RQ START TAC			layer2 release
2		L?DL_REL_CO CANCEL TAC		(P)	UA or DM received; layer 2 released
3		L!DL_EST_RQ START TAC			re-establish ment
4	L1	L?DL_EST_CO CANCEL TAC		(P)	UA received; data link established
5		L?DL_REL_IN START TNOAC			DM received; IUT still busy
6		L?DL_EST_IN CANCEL TAC, CANCEL TNOAC		(P)	SABME received; data link established
7		?TIMEOUT TNOAC			
8		L!DL_EST_RQ			re-establish ment
9		GOTO L1			
10		L?OTHERWISE		I	
11		L?DL_EST_IN CANCEL TAC			SABME received
12		L!DL_EST_CO START TNOAC			UA sent; layer 2 established
13		L?DL_EST_CO CANCEL TNOAC		(P)	UA received as answer to first SABME
14		?TIMEOUT TNOAC		I	
15		L?OTHERWISE		I	
16		?TIMEOUT TAC		I	no response
17		L?OTHERWISE		I	invalid event
18		?TIMEOUT TAC		I	no response
19		L?OTHERWISE		I	invalid event
Detailed Comments : The layer 2 of the IUT must have a TEI assigned value before the execution of this preamble. The procedure to assign the TEI value to the IUT is matter for the test laboratory.					

Test Step Dynamic Behaviour

Test Step Name : PO49901 (FL: INTEGER)

Group :

Objective : To bring the IUT to the Null state U0.

Default :

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(NOT_FL := (FL + 1) MOD 2)			(1)
2		L!REL START TAC	Ms(RL3 (FL, CREF, 16))		valid RELEASE (2)
3	L1	L?REL_COMr CANCEL TAC	Mr(RC1 (NOT_FL, CREF))	R	valid RELEASE COMPLETE
4		?TIMEOUT TAC		(I)	no response
5		[TRUE]		R	
6		+ UM59902			unexpected message
7		GOTO L1			
8		L?OTHERWISE		(I)	invalid event
9		[TRUE]		R	

Detailed Comments : (1) NOT_FL is used to store the inverted call reference flag bit.
(2) The formal parameter FL is used as call reference flag bit.

Test Step Dynamic Behaviour					
Test Step Name : CS50001 (FL: INTEGER) Group : Objective : To check the IUT Null call state U0. Default : DF69901 (FL) Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(NOT_FL:= (FL + 1) MOD 2)			(1)
2	L1	L!ST_ENQ START TAC	Ms(SQ1 (FL, CREF))		valid STATUS ENQUIRY (2)
3	L2	L?RELr CANCEL TAC	Mr(RL2 (NOT_FL, CREF, 81))		valid RELEASE
4		L!REL_COM	Ms(RC2 (FL, CREF, 81))	P	valid RELEASE COMPLETE
5		L?REL_COMr CANCEL TAC	Mr(RC3 (NOT_FL, CREF, 81))	P	valid RELEASE COMPLETE
6		L?STATUSr [STAT_TRANSM = FALSE]	Mr(ST6 (NOT_FL, CREF, ECV))	(P)	valid STATUS
7		(STAT_TRANSM:= TRUE)			
8		GOTO L2			
9		L?DL_REL_IN CANCEL TAC			
10		L!DL_EST_RQ (C:= C + 1) START TAC			
11		L?DL_EST_CO CANCEL TAC, START TNOAC			
12		[(C) < 2]			
13		GOTO L2			
14		[C = 2]			
15		CANCEL TNOAC		(I)	
16		+ PO49901 (0)			
17		?TIMEOUT TAC		I	
18		?TIMEOUT TNOAC		I	
19		?TIMEOUT TNOAC			no response
20		GOTO L1			postamble U0
21		?TIMEOUT TAC		(F)	no response
22		+ PO49901 (0)			postamble U0
23		+ UM59902			unexpected message
24		GOTO L2			
Detailed Comments : (1) NOT_FL is used to store the inverted call reference flag bit. (2) The formal parameter FL is used as call reference flag bit.					

Test Step Dynamic Behaviour					
Test Step Name : CS59901(ES: INTEGER ; FL: INTEGER) Group : Objective : To check the IUT call states and the cause values. Default : DF69901 (FL) Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(NOT_FL:= (FL + 1) MOD 2)			(1)
2		L!ST_ENQ START TAC	Ms(SQ1 (FL, CREF))		valid STATUS ENQUIRY (2)
3	L1	+ SUBTREE1_CS59901 (ES, FL)			
4		L?CALL_PROCr [ES = 25]	Mr(CP1 (CREF))	(P)	ignore CALL PROCEEDING (3)
5	L2	+ SUBTREE1_CS59901 (9, FL)			
6		L?ALERTr	Mr(AL1 (CREF))	(P)	ignore ALERTING
7	L3	+ SUBTREE1_CS59901 (7, FL)			
8		L?CONNr	Cr(CN1 (CREF))	(P)	ignore CONNECT
9	L4	+ SUBTREE1_CS59901 (8, FL)			
10		+ SUBTREE2_CS59901 (FL)			
11		GOTO L4			
12		+ SUBTREE2_CS59901 (FL)			
13		GOTO L3			
14		L?CONNr	Cr(CN1 (CREF))	(P)	ignore CONNECT
15		(ES:= 8)			
16	L5	+ SUBTREE1_CS59901 (8, FL)			
17		+ SUBTREE2_CS59901 (FL)			
18		GOTO L5			
19		+ SUBTREE2_CS59901 (FL)			
20		GOTO L2			
21		L?ALERTr [(ES = 25) OR (ES = 9)]	Mr(AL1 (CREF))	(P)	ignore ALERTING
22	L6	+ SUBTREE1_CS59901 (7, FL)			
23		L?CONNr	Cr(CN1 (CREF))	(P)	ignore CONNECT
24	L7	+ SUBTREE1_CS59901 (8, FL)			
25		+ SUBTREE2_CS59901 (FL)			
26		GOTO L7			
27		+ SUBTREE2_CS59901 (FL)			
28		GOTO L6			
29		L?CONNr [(ES = 25) OR (ES = 9)) OR (ES = 7)]	Cr(CN1 (CREF))	(P)	ignore CONNECT
30	L8	+ SUBTREE1_CS59901 (8, FL)			
31		+ SUBTREE2_CS59901 (FL)			
32		GOTO L8			
33		+ SUBTREE2_CS59901 (FL)			
34		GOTO L1			
35		SUBTREE1_CS59901 (ES, FL: INTEGER) L?STATUSr CANCEL TAC	Mr(ST3 (NOT_FL, CREF, 30, ES))	(P)	valid STATUS
36		+ SUBTREE3_CS59901 (FL)			
37		L?STATUSr CANCEL TAC	Mr(ST3 (NOT_FL, CREF, 97, ES))	(P)	valid STATUS
38		+ SUBTREE3_CS59901 (FL)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
39		L?STATUSr CANCEL TAC	Mr(ST3 (NOT_FL, CREF, 98, ES))	(P)	valid STATUS
40		+ SUBTREE3_CS59901 (FL)			
		SUBTREE2_CS59901 (FL: INTEGER)			
41		?TIMEOUT TAC		(F)	no response
42		+ SUBTREE3_CS59901 (FL)			
43		L?STATUSr [STAT_TRANSM = FALSE]	Mr(ST6 (NOT_FL, CREF, ECV))	(P)	valid STATUS
44		(STAT_TRANSM:= TRUE)			
45		+ UM59902			unexpected message
		SUBTREE3_CS59901 (FL: INTEGER)			
46		[ES <> 19]			
47		+ PO49901 (FL)			postamble U0
48		[ES = 19]			
49		L!REL_COM	Ms(RC2 (FL, CREF, 16))	R	
Detailed Comments : (1) NOT_FL is used to store the inverted call reference flag bit. (2) The formal parameter FL is used as call reference flag bit. (3) The formal parameter ES is used as expected IUT call state.					

Test Step Dynamic Behaviour					
Test Step Name : UM59902					
Group :					
Objective : To allow without verdict the receipt of INFO, NOTIFY, STATUS ENQUIRY or any PDU of the generic functional protocol during the test body execution.					
Default :					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?INFOr	Mr(IN4 (CREF))		
2		L?NOTIFYr	Mr(NO3 (CREF))		
3		L?ST_ENQr	Mr(SQ3 (CREF))		
4		L?Q932_MSGr	Mr(MSG (CREF))		
Detailed Comments : References to Recommendations EN 300 102-1, ETS 300 196					

Default Dynamic Behaviour					
Default Name : DF69901(FL: INTEGER)					
Group :					
Objective : Default subtree for all test cases.					
Comments :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L1	L?DL_REL_IN		(I)	DL failure
2		(NOT_FL:= (FL + 1) MOD 2)		R	
3		L?DL_EST_IN		(I)	DL reset
4		(NOT_FL:= (FL + 1) MOD 2)			
5		L!REL START TAC	Ms(RL3 (FL, CREF, 16))		valid RELEASE
6		L?REL_COMr CANCEL TAC	Mr(RC1 (NOT_FL, CREF))	R	valid REL_COM
7		?TIMEOUT TAC		R	no response
8		L?OTHERWISE		R	invalid event
9		L?RESTARTTr	Rr(RST1 (0, 6))	(I)	single interface
10		L!RESTART_ACK	Ms(RSA5 (1, 6))	R	
11		L?RESTARTTr	Rr(RST1 (0, 7))	(I)	all interfaces
12		L!RESTART_ACK	Ms(RSA5 (1, 7))	R	
13		L?RESTARTTr (bch_num:= RESTARTTr.mun.chi.chi_e3_cs)	Rr(RST3 (0, 0))	(I)	indicated channels
14		L!RESTART_ACK START T316MAX	Ms(RSA2 (1, bch_num))		
15		L?RESTARTTr (bch_num:= RESTARTTr.mun.chi.chi_e3_cs)	Rr(RST3 (0, 0))		indicated channels
16		L!RESTART_ACK	Ms(RSA2 (1, bch_num))		
17		GOTO L1			
18		?TIMEOUT T316MAX START TAC		(I)	
19		L?RESTARTTr (bch_num:= RESTARTTr.mun.chi.chi_e3_cs) CANCEL TAC	Rr(RST3 (0, 0))	(I)	indicated channels
20		L!RESTART_ACK	Ms(RSA2 (1, bch_num))	R	
21		?TIMEOUT TAC		R	
22		L?OTHERWISE		(F)	
23		(NOT_FL:= (FL + 1) MOD 2)			
24		L!REL START TAC	Ms(RL3 (FL, CREF, 16))		valid RELEASE
25		L?REL_COMr CANCEL TAC	Mr(RC1 (NOT_FL,CREF))	R	valid REL_COM
26		?TIMEOUT TAC		R	no response
27		L?OTHERWISE		R	invalid event
Detailed Comments :					