

# **I**

## **Test Suite Overview**

## Test Suite Structure

**Suite Name** : L3\_INDN\_V3  
**Standards Ref** : ETS 301 068-1 [ITU-T recommendation Q2961.x modified]  
**PICS Ref** : ETS 301 068-2  
**PIXIT Ref** : ETS 301 068-6 Annex B  
**Test Method(s)** : Multi-party test method (see ETS 301 068-6 clause 4)  
**Comments** : Abstract test suite for the  
Broadband integrated services digital network (B-ISDN) - Digital subscriber  
signalling system no. 2 (DSS2) - Connection characteristics; ATM transfer  
capability and traffic parameter indication.  
  
Version 3.0 December 2001  
Mp file: 068\_6\_3.mp

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**Detailed Comments :**

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<b>Detailed Comments :</b>			

## **II**

### **Declarations Part**



ASN.1 Type Definition	
<b>Type Name</b>	: ANPI_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.11
Type Definition	
BIT STRING(SIZE(4))	
<b>Detailed Comments</b> : Addressing/Numbering plan identification value	

ASN.1 Type Definition	
<b>Type Name</b>	: AAL_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.5
Type Definition	
OCTET STRING(SIZE(1..17))	
<b>Detailed Comments</b> : AAL parameters contents	

ASN.1 Type Definition	
<b>Type Name</b>	: ATM_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.6
Type Definition	
OCTET STRING(SIZE(0..32))	
<b>Detailed Comments</b> : ATM Traffic Descriptor contents	

ASN.1 Type Definition	
<b>Type Name</b>	: ABR_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 301 068-1
Type Definition	
OCTET STRING(SIZE(0..32))	
<b>Detailed Comments</b> : ATM Traffic Descriptor contents	

ASN.1 Type Definition	
<b>Type Name</b>	: BBC_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.7
Type Definition	
OCTET STRING(SIZE(2..4))	
<b>Detailed Comments</b> : Broadband Bearer Capability contents	

ASN.1 Type Definition	
<b>Type Name</b>	: BC_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 403-1 subclause 4.5.5
Type Definition	
OCTET STRING(SIZE(0..10))	
<b>Detailed Comments</b> : Broadband Bearer Capability contents	

ASN.1 Type Definition	
<b>Type Name</b>	: LLC_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.9
Type Definition	
OCTET STRING(SIZE(1..13))	
<b>Detailed Comments</b> : Broadband low layer compatibilty contents	

ASN.1 Type Definition	
<b>Type Name</b>	: NI_contents
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.23
Type Definition	
OCTET STRING	
<b>Detailed Comments</b> : Notification indicator contents	

ASN.1 Type Definition	
<b>Type Name</b>	: BTC_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 301 068-1
Type Definition	
BIT STRING(SIZE(7))	
<b>Detailed Comments</b> : Broadband transfer capability value	

ASN.1 Type Definition	
<b>Type Name</b>	: Cr_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: Call reference value EN 300 443-1 subclause 4.3
Type Definition	
BIT STRING(SIZE(23))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: Cause_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: Cause value EN 300 443-1 subclause 4.5.15
Type Definition	
BIT STRING(SIZE(7))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEAI_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 Table 4-3
Type Definition	
BIT STRING(SIZE(3))	
<b>Detailed Comments</b>	: Information element action indicator

ASN.1 Type Definition	
<b>Type Name</b>	: MSGAI_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 Table 4-2
Type Definition	
BIT STRING(SIZE(2))	
<b>Detailed Comments</b>	: Message action indicator

ASN.1 Type Definition	
<b>Type Name</b>	: Rate_Id
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 301 443-1 subclause 4.5.6, EN 301 067-1 subclause 8.2.1, EN 301 068
Type Definition	
<pre> BIT STRING ( '10000010'B -- forward peak cell rate (CLP = 0)               '10000011'B -- backward peak cell rate (CLP = 0)               '10000100'B -- forward peak cell rate (CLP = 0 + 1)               '10000101'B -- backward peak cell rate (CLP = 0 + 1)               '10001000'B -- forward sustainable cell rate (CLP = 0)               '10001001'B -- backward sustainable cell rate (CLP = 0)               '10010000'B -- forward sustainable cell rate (CLP = 0 + 1)               '10010001'B -- backward sustainable cell rate (CLP = 0 + 1)               '10100000'B -- forward maximum burst size (CLP = 0)               '10100001'B -- backward maximum burst size (CLP = 0)               '10110000'B -- forward maximum burst size (CLP = 0 + 1)               '10110001'B -- backward maximum burst size (CLP = 0 + 1)               '10010010'B -- forward ABR minimum cell rate (CLP = 0 + 1)               '10010011'B -- backward ABR minimum cell rate (CLP = 0 + 1)               '11000000'B -- forward RM peak cell rate               '11000001'B -- backward RM peak cell rate             ) </pre>	
<b>Detailed Comments</b>	: Possible identifiers for the traffic rates of the ATM traffic descriptor information elements

ASN.1 Type Definition	
<b>Type Name</b>	: Flag
<b>Encoding Variation</b>	:
<b>Comments</b>	: Used as Call reference or Endpoint reference flag EN 300 443-1 subclause 4.3, EN 300 771-1 subclause 8.2.1
Type Definition	
BIT STRING(SIZE(1))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: State_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: Cause value EN 300 443-1 subclause 4.5.10
Type Definition	
BIT STRING(SIZE(6))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: TON_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.11
Type Definition	
BIT STRING(SIZE(3))	
<b>Detailed Comments</b> : Type of number value	

ASN.1 Type Definition	
<b>Type Name</b>	: VPAS_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.16
Type Definition	
BIT STRING(SIZE(2))	
<b>Detailed Comments</b> : VP-associated signalling value	

ASN.1 Type Definition	
<b>Type Name</b>	: VCI_VPCI_value
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.16
Type Definition	
BIT STRING(SIZE(16))	
<b>Detailed Comments</b>	: VPI or VPCI value

ASN.1 Type Definition	
<b>Type Name</b>	: MessageHeader
<b>Encoding Variation</b>	:
<b>Comments</b>	: The message header is contained in each message.
Type Definition	
<pre>SEQUENCE {     protocolDiscriminator ProtocolDiscriminator,     callReference          CallReference,     messageType           MessageType }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ProtocolDiscriminator
<b>Encoding Variation</b>	:
<b>Comments</b>	: Protocol discriminator for Q.2931 user-network call/connection control messages EN 300 443-1 subclause 4.2
Type Definition	
BIT STRING ('00001001'B)	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CallReference
<b>Encoding Variation</b>	:
<b>Comments</b>	: Call reference EN 300 443-1 subclause 4.3
Type Definition	
<pre>SEQUENCE {     bits5_8  BIT STRING('0000'B), -- fixed value for the upper nibble of the length     cr_length BIT STRING('0011'B), -- length value set to 3     cr_flag   Flag,                -- '0'B: Originator, '1'B: Destination     cr_value  Cr_value             -- call reference value BITSTRING[23] }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: MessageIdentifier
<b>Encoding Variation</b>	:
<b>Comments</b>	: Message type EN 300 443-1 table 4-2
Type Definition	
BIT STRING(SIZE(8))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: MessageType
<b>Encoding Variation</b>	:
<b>Comments</b>	: Message type including message compatibility instruction indicator EN 300 443-1 subclause 4.4.1
Type Definition	
<pre>SEQUENCE {     message_type      MessageIdentifier,  -- Type of message     extension         BIT STRING('1'B),  -- Extension bit, set to '1'B     spare_67         BIT STRING(SIZE(2)), -- Spare bits, normally set to '00'B     mt_flag          Flag,                -- (1)     spare_34         BIT STRING(SIZE(2)), -- Spare bits, normally set to '00'B     action_indicator MSGAI_value          -- Message action indicator }</pre>	
<b>Detailed Comments</b> : (1) Message compatibility instruction indicator flag	

ASN.1 Type Definition	
<b>Type Name</b>	: MessageLength
<b>Encoding Variation</b>	:
<b>Comments</b>	: Message length EN 300 443-1 subclause 4.4.2
Type Definition	
BIT STRING(SIZE(16))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: InformationElements
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5
Type Definition	
<pre> CHOICE {     iEs_ALERTING                IEs_ALERTING,     iEs_CALL_PROCEEDING        IEs_CALL_PROCEEDING,     iEs_CONNECT                IEs_CONNECT,     iEs_CONNECT_ACKNOWLEDGE    IEs_CONNECT_ACKNOWLEDGE,     iEs_INFORMATION            IEs_INFORMATION,     iEs_PROGRESS                IEs_PROGRESS,     iEs_RELEASE                IEs_RELEASE,     iEs_RELEASE_COMPLETE        IEs_RELEASE_COMPLETE,     iEs_SETUP_ACKNOWLEDGE      IEs_SETUP_ACKNOWLEDGE,     iEs_SETUP                  IEs_SETUP,     iEs_STATUS                  IEs_STATUS,     iEs_STATUS_ENQUIRY          IEs_STATUS_ENQUIRY,     iEs_NOTIFY                  IEs_NOTIFY,     iEs_RESTART                IEs_RESTART,     iEs_RESTART_ACKNOWLEDGE    IEs_RESTART_ACKNOWLEDGE,     iEs_INVALID                 IEs_INVALID,     iEs_ERROR                   IEs_ERROR } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEs_ALERTING
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 3.1.1, 3.2.1
Type Definition	
<pre> SET {     connectionIdentifier          ConnectionIdentifier          OPTIONAL,     narrowbandBearerCapability    NarrowbandBearerCapability  OPTIONAL,     narrowbandHighLayerCompatibility NarrowbandHighLayerCompatibility OPTIONAL,     notificationIndicator         NotificationIndicator         OPTIONAL,     progressIndicator             ProgressIndicator             OPTIONAL } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEs_CALL_PROCEEDING
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 3.1.2, 3.2.2
Type Definition	
<pre> SET {     connectionIdentifier          ConnectionIdentifier          OPTIONAL,     narrowbandBearerCapability    NarrowbandBearerCapability  OPTIONAL,     narrowbandHighLayerCompatibility NarrowbandHighLayerCompatibility OPTIONAL,     notificationIndicator         NotificationIndicator         OPTIONAL,     progressIndicator             ProgressIndicator             OPTIONAL } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition			
Type Name		: IEs_CONNECT	
Encoding Variation		:	
Comments		: EN 300 443-1 subclause 3.1.3, 3.2.3	
Type Definition			
SET {	aTMAAdaptionLayerParameters	ATMAAdaptionLayerParameters	OPTIONAL,
	broadbandLowLayerInformation	BroadbandLowLayerInformation	OPTIONAL,
	connectionIdentifier	ConnectionIdentifier	OPTIONAL,
	endToEndTransitDelay	EndToEndTransitDelay	OPTIONAL,
	narrowbandBearerCapability	NarrowbandBearerCapability	OPTIONAL,
	narrowbandHighLayerCompatibility	NarrowbandHighLayerCompatibility	OPTIONAL,
	narrowbandLowLayerCompatibility	NarrowbandLowLayerCompatibility	OPTIONAL,
	notificationIndicator	NotificationIndicator	OPTIONAL,
	aTMTrafficDescriptor	ATMTrafficDescriptor	OPTIONAL,
	abrSetupParameters	AbrSetupParameters	OPTIONAL,
	oAMTrafficDescriptor	OAMTrafficDescriptor	OPTIONAL,
	progressIndicator	ProgressIndicator	OPTIONAL
}			
Detailed Comments :			

ASN.1 Type Definition	
Type Name	: IEs_CONNECT_ACKNOWLEDGE
Encoding Variation	:
Comments	: EN 300 443-1 subclause 3.1.4
Type Definition	
SET {	notificationIndicator NotificationIndicator OPTIONAL
}	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IEs_NOTIFY
Encoding Variation	:
Comments	: EN 300 443-1 subclause 3.1.10
Type Definition	
SET {	notificationIndicator NotificationIndicator
}	
Detailed Comments :	



ASN.1 Type Definition	
<b>Type Name</b>	: IEs_RELEASE
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 3.1.5, 3.2.6
Type Definition	
<pre> SET {   causes          Causes,   notificationIndicator NotificationIndicator OPTIONAL,   progressIndicator ProgressIndicator    OPTIONAL } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEs_RESTART
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 3.3.1
Type Definition	
<pre> SET {   connectionIdentifier ConnectionIdentifier OPTIONAL,   restartIndicator      RestartIndicator } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEs_RESTART_ACKNOWLEDGE
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 3.3.2
Type Definition	
<pre> SET {   connectionIdentifier ConnectionIdentifier OPTIONAL,   restartIndicator      RestartIndicator } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEs_RELEASE_COMPLETE
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 3.1.6
Type Definition	
<pre> SET {   causes Causes OPTIONAL } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition			
<b>Type Name</b>		: IEs_SETUP	
<b>Encoding Variation</b>		:	
<b>Comments</b>		: EN 300 443-1 subclause 3.1.7, subclause 3.2.7	
Type Definition			
SET {			
atMAdaptionLayerParameters	ATMAdaptionLayerParameters	OPTIONAL,	
aMTrafficDescriptor	ATMTrafficDescriptor,		
alternativeATMTrafficDescriptor	AlternativeATMTrafficDescriptor	OPTIONAL,	
acceptableATMTrafficDescriptor	AcceptableATMTrafficDescriptor	OPTIONAL,	
abrSetupParameters	AbrSetupParameters	OPTIONAL,	
broadbandBearerCapability	BroadbandBearerCapability,		
broadbandHighLayerInformation	BroadbandHighLayerInformation	OPTIONAL,	
broadbandLowLayerInformations	BroadbandLowLayerInformations	OPTIONAL,	
calledPartyNumber	CalledPartyNumber	OPTIONAL,	
calledPartySubaddress	CalledPartySubaddress	OPTIONAL,	
callingPartyNumber	CallingPartyNumber	OPTIONAL,	
callingPartySubaddress	CallingPartySubaddress	OPTIONAL,	
connectionIdentifier	ConnectionIdentifier	OPTIONAL,	
endToEndTransitDelay	EndToEndTransitDelay	OPTIONAL,	
narrowbandBearerCapabilities	NarrowbandBearerCapabilities	OPTIONAL,	
narrowbandHighLayerCompatibilities	NarrowbandHighLayerCompatibilities	OPTIONAL,	
narrowbandLowLayerCompatibilities	NarrowbandLowLayerCompatibilities	OPTIONAL,	
notificationIndicator	NotificationIndicator	OPTIONAL,	
oAMTrafficDescriptor	OAMTrafficDescriptor	OPTIONAL,	
progressIndicator	ProgressIndicator	OPTIONAL,	
qualityOfServiceParameter	QualityOfServiceParameter,		
broadbandSendingComplete	BroadbandSendingComplete	OPTIONAL,	
transitNetworkSelection	TransitNetworkSelection	OPTIONAL	
}			
<b>Detailed Comments</b> :			

ASN.1 Type Definition		
Type Name	: IEs_STATUS	
Encoding Variation	:	
Comments	: EN 300 443-1 subclause 3.1.8	
Type Definition		
SET {	cause	Cause,
	callState	CallState
}		
Detailed Comments	:	

ASN.1 Type Definition	
Type Name	: IEs_STATUS_ENQUIRY
Encoding Variation	:
Comments	: EN 300 443-1 subclause 3.1.9
Type Definition	
SET { }	
Detailed Comments :	

ASN.1 Type Definition			
Type Name	: IEs_SETUP_ACKNOWLEDGE		
Encoding Variation	:		
Comments	: EN 300 443-1 subclause 3.2.8		
Type Definition			
SET {	connectionIdentifier	ConnectionIdentifier	OPTIONAL,
	notificationIndicator	NotificationIndicator	OPTIONAL,
	progressIndicator	ProgressIndicator	OPTIONAL
}			
Detailed Comments	:		

ASN.1 Type Definition		
Type Name	: IEs_INFORMATION	
Encoding Variation	:	
Comments	: EN 300 443-1 subclause 3.2.4	
Type Definition		
SET {	broadbandSendingComplete	BroadbandSendingComplete OPTIONAL, calledPartyNumber CalledPartyNumber OPTIONAL
}		
Detailed Comments	:	

ASN.1 Type Definition		
Type Name	: IEs_PROGRESS	
Encoding Variation	:	
Comments	: EN 300 443-1 subclause 3.2.5	
Type Definition		
SET {	narrowbandBearerCapability	NarrowbandBearerCapability OPTIONAL,
	narrowbandHighLayerCompatibility	NarrowbandHighLayerCompatibility OPTIONAL,
	notificationIndicator	NotificationIndicator OPTIONAL,
	progressIndicator	ProgressIndicator
}		
Detailed Comments	:	

ASN.1 Type Definition			
Type Name		: IEs_ERROR	
Encoding Variation		:	
Comments		: Used to construct messages with incorrect contents	
Type Definition			
SET {	calledPartyNumber	CalledPartyNumber	OPTIONAL,
	broadbandSendingComplete	BroadbandSendingComplete	OPTIONAL,
	broadbandLowLayerInformation	BroadbandLowLayerInformation	OPTIONAL,
	cause	Cause	OPTIONAL,
	notificationIndicator	NotificationIndicator	OPTIONAL,
	unrecognised_IE	Unrecognised_IE	OPTIONAL
}			
Detailed Comments :			

ASN.1 Type Definition	
<b>Type Name</b>	: IEs_INVALID
<b>Encoding Variation</b>	:
<b>Comments</b>	: Used to handle the receipt of incorrect messages
Type Definition	
OCTET STRING	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEHeader
<b>Encoding Variation</b>	:
<b>Comments</b>	: The IEHeader is contained in each information element.
Type Definition	
<pre>SEQUENCE {     iEIdentifier      IEIdentifier,      -- Information element identifier     extension         BIT STRING('1'B), -- Extension bit, set to '1'B     coding_standard   BIT STRING(SIZE(2)), -- Coding standard     ie_flag           Flag,              -- Instruction field     reserved          BIT STRING(SIZE(1)), -- Reserved bit, normally set to '0'B     action_indicator  IEAI_value         -- Information element action indicator }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IEIdentifier
<b>Encoding Variation</b>	:
<b>Comments</b>	: Information element identifiers EN 300 443-1 table 4-3
Type Definition	
BIT STRING(SIZE(8))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: IELength
<b>Encoding Variation</b>	:
<b>Comments</b>	: Information element length EN 300 443-1 subclause 4.5.1
Type Definition	
BIT STRING(SIZE(16))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ATMAAdaptionLayerParameters
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.5
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents AAL_contents }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ATMTrafficDescriptor
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 301 443-1 subclause 4.5.6, EN 301 068-1 subclause 8.2.1, EN 301 068
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents ATM_contents,     tagging_id BIT STRING (SIZE(8)) OPTIONAL,     tagging_opt BIT STRING (SIZE(8)) OPTIONAL }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BroadbandBearerCapability
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.7, EN 301 068-1
Type Definition	
<pre> SEQUENCE {     ieHeader IEHeader,     ieLength IELength,     contents CHOICE {         send BBC_contents,         receive Receive     } }  Receive ::= SEQUENCE {     extension_o5 BIT STRING(SIZE(1)),    -- Extension bit     spare_67     BIT STRING(SIZE(2)),    -- Spare bits, normally set to '00'B     bearer_class BIT STRING(SIZE(5)),     octet5a      Octet5a OPTIONAL,     extension_o6 BIT STRING('1'B),       -- Extension bit set to '1'B     sus_clip     BIT STRING(SIZE(2)),    -- Susceptibility to clipping     spare_345    BIT STRING(SIZE(3)),    -- Spare bits, normally set to '000'B     user_config  BIT STRING(SIZE(2)),    -- User plane connection configuration     octet7       Octet7 OPTIONAL }  Octet5a ::= SEQUENCE {     extension_o5a BIT STRING('1'B),    -- Extension bit set to '1'B     btc           BTC_value             -- Broadband transfer capability }  Octet7 ::= SEQUENCE {     extension_o7 BIT STRING('1'B),    -- Extension bit set to '1'B     layer_id     BIT STRING('01'B),   -- set to '01'B     user_info    BIT STRING(SIZE(5))  -- User information layer 2 protocol } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BroadbandHighLayerInformation
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.8
Type Definition	
<pre> SEQUENCE {     ieHeader IEHeader,     ieLength IELength,     contents OCTET STRING(SIZE(0..9)) } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BroadbandLowLayerInformations
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.1 Repetition of information elements by use of the Broadband repeat indicator information element
Type Definition	
<pre>CHOICE {     single_LLI    BroadbandLowLayerInformation,     repeated_LLI  Repeated_LLI                -- (1) }</pre> <pre>Repeated_LLI ::= SEQUENCE {     broadbandRepeatIndicator BroadbandRepeatIndicator,     first_LLI                BroadbandLowLayerInformation,     second_LLI               BroadbandLowLayerInformation,     third_LLI                BroadbandLowLayerInformation OPTIONAL }</pre>	
<b>Detailed Comments</b>	: (1) More than one Broadband low layer information information elements may be included in SETUP messages.

ASN.1 Type Definition	
<b>Type Name</b>	: BroadbandLowLayerInformation
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.9
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents LLC_contents }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CallState
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.10
Type Definition	
<pre>SEQUENCE {     iEHeader    IEHeader,     iELength    IELength,     spare_87    BIT STRING(SIZE(2)), -- Spare bits, normally set to '00'B     call_state  State_value          -- Call/global interface state value }</pre>	
<b>Detailed Comments</b>	:

## ASN.1 Type Definition

**Type Name** : CalledPartyNumber**Encoding Variation** :**Comments** : EN 300 443-1 subclause 4.5.11

## Type Definition

```

SEQUENCE {
    iEHeader          IEHeader,
    iELength          IELength,
    extension_o5      BIT STRING(SIZE(1)), -- Extension bit, set to '1'B
    cpn_type          BIT STRING(SIZE(3)), -- Type of number
    numbering_plan_id BIT STRING(SIZE(4)), -- Addressing/numbering plan identification
    address_digits    IA5String OPTIONAL  -- Address/number digits
}

```

**Detailed Comments** :

## ASN.1 Type Definition

**Type Name** : CalledPartySubaddress**Encoding Variation** :**Comments** : EN 300 443-1 subclause 4.5.12

## Type Definition

```

SEQUENCE {
    iEHeader          IEHeader,
    iELength          IELength,
    extension_o5      BIT STRING('1'B), -- Extension bit, set to '1'B
    cps_type          BIT STRING(SIZE(3)), -- Type of subaddress
    odd_even_indicator BIT STRING(SIZE(4)),
    spare_123         BIT STRING(SIZE(3)), -- Spare bits, normally set to '000'B
    subaddress_info   IA5String(SIZE(0..20)) OPTIONAL -- Sub-address information
}

```

**Detailed Comments** :

## ASN.1 Type Definition

**Type Name** : CallingPartyNumber**Encoding Variation** :**Comments** : EN 300 443-1 subclause 4.5.13

## Type Definition

```

SEQUENCE {
    iEHeader          IEHeader,
    iELength          IELength,
    extension_o5      BIT STRING(SIZE(1)), -- Extension bit, set to '1'B
    cpn_type          BIT STRING(SIZE(3)), -- Type of number
    numbering_plan_id BIT STRING(SIZE(4)), -- Addressing/numbering plan identification
    octet5a           Octet5a OPTIONAL, -- Optional octet 5a
    address_digits    IA5String OPTIONAL  -- Address/number digits
}

Octet5a ::= SEQUENCE {
    extension_o5a      BIT STRING('1'B), -- Extension bit, set to '1'B
    presentation_indicator BIT STRING(SIZE(2)),
    spare_345         BIT STRING(SIZE(3)), -- Spare bits, normally set to '000'B
    screening_indicator BIT STRING(SIZE(2)) }

```

**Detailed Comments** :



ASN.1 Type Definition	
<b>Type Name</b>	: CallingPartySubaddress
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.14
Type Definition	
<pre> SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     extension_o5      BIT STRING('1'B),      -- Extension bit, set to '1'B     cps_type          BIT STRING(SIZE(3)),    -- Type of subaddress     odd_even_indicator BIT STRING(SIZE(4)),     spare_123         BIT STRING(SIZE(3)),    -- Spare bits, normally set to '000'B     subaddress_info   IA5String(SIZE(0..20)) OPTIONAL -- Sub-address information } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: Causes
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.15
Type Definition	
<pre> SEQUENCE {     cause          Cause OPTIONAL,     cause_repeated Cause OPTIONAL -- (1) } </pre>	
<b>Detailed Comments</b>	: (1) The Cause information element may be repeated in RELEASE and RELEASE COMPLETE messages.

ASN.1 Type Definition	
<b>Type Name</b>	: Cause
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.15
Type Definition	
<pre> SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     extension_o5      BIT STRING('1'B),      -- Extension bit, set to '1'B     spare_567        BIT STRING(SIZE(3)),    -- Spare bits, normally set to '000'B     location          BIT STRING(SIZE(4)),     extension_o6      BIT STRING('1'B),      -- Extension bit, set to '1'B     cause_value       Cause_value,     diagnostics       OCTET STRING OPTIONAL } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ConnectionIdentifier
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.16
Type Definition	
<pre> SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     extension_o5      BIT STRING('1'B), -- Extension bit, set to '1'B     spare_67          BIT STRING(SIZE(2)), -- Spare bits, normally set to '00'B     vp_assoc_signalling VPAS_value, -- VP-associated signalling     preferred_exclusive BIT STRING(SIZE(3)),     vpci              VCI_VPCI_value, -- Virtual Path Connection Identifier     vci               VCI_VPCI_value -- Virtual Channel Identifier } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: EndToEndTransitDelay
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.17
Type Definition	
<pre> SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     cumulative_td_id  BIT STRING('00000001'B), -- Cumulative transit delay identifier     cumulative_td     BIT STRING(SIZE(16)), -- Cumulative transit delay value     maximum_td        Maximum_td OPTIONAL -- Maximum transit delay }  Maximum_td ::= SEQUENCE {     maximum_td_id  BIT STRING('00000011'B), -- Maximum transit delay id     maximum_td     BIT STRING(SIZE(16)) -- Maximum transit delay value } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: QualityOfServiceParameter
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.18
Type Definition	
<pre> SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     qos_class_fwd     BIT STRING(SIZE(8)), -- QOS class forward     qos_class_bwd     BIT STRING(SIZE(8)) -- QOS class backward } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BroadbandRepeatIndicator
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.19
Type Definition	
<pre>SEQUENCE {     iEHeader      IEHeader,     iELength      IELength,     extension_o5   BIT STRING('1'B), -- Extension bit, set to '1'B     spare_765     BIT STRING(SIZE(3)), -- Spare bits, normally set to '000'B     br_indication BIT STRING('0010'B) -- Broadband repeat indicator }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: RestartIndicator
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.20
Type Definition	
<pre>SEQUENCE {     iEHeader      IEHeader,     iELength      IELength,     extension_o5   BIT STRING('1'B), -- Extension bit, set to '1'B     spare_7654    BIT STRING(SIZE(4)), -- Spare bits, normally set to '0000'B     ri_class      BIT STRING(SIZE(3)) }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BroadbandSendingComplete
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.21
Type Definition	
<pre>SEQUENCE {     iEHeader      IEHeader,     iELength      IELength,     extension_o5   BIT STRING('1'B), -- Extension bit, set to '1'B     bsc_indication BIT STRING('0100001'B) -- Broadband sending complete indication }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: TransitNetworkSelection
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.22
Type Definition	
SEQUENCE {	
iEHeader	IEHeader,
iELength	IELength,
extension_o5	BIT STRING('1'B), -- Extension bit, set to '1'B
type_of_nw_id	BIT STRING(SIZE(3)), -- Type of network identification
nw_plan_id	BIT STRING(SIZE(4)), -- Network identification plan
nw_id	IA5String -- Network identification
}	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: NotificationIndicator
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.23
Type Definition	
SEQUENCE {	
iEHeader	IEHeader,
iELength	IELength,
contents	NI_contents -- Further contents as defined in other standards
}	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: OAMTrafficDescriptor
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.5.24
Type Definition	
SEQUENCE {	
iEHeader	IEHeader,
iELength	IELength,
extension_o5	BIT STRING('1'B), -- Extension bit, set to '1'B
shaping_indicator	BIT STRING(SIZE(2)), -- Type of subaddress
complete_indicator	BIT STRING(SIZE(1)),
spare_4_o5	BIT STRING(SIZE(1)), -- Spare bit, normally set to '0'B
un_fault_mngt_indicator	BIT STRING(SIZE(4)), -- (1)
extension_o6	BIT STRING('1'B), -- Extension bit, set to '1'B
fwd_flow_indicator	BIT STRING(SIZE(3)), -- (2)
spare_4_o6	BIT STRING(SIZE(1)), -- Spare bit, normally set to '0'B
bwd_flow_indicator	BIT STRING(SIZE(4)) -- (3)
}	
<b>Detailed Comments</b>	: (1) User-network fault management indicator (2) Forward end-to-end OAM F5 flow indicator (3) Backward end-to-end OAM F5 flow indicator

ASN.1 Type Definition	
<b>Type Name</b>	: AlternativeATMTrafficDescriptor
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 301 443-1 subclause 4.5.6, EN 301 067-1 subclause 8.2.1, EN 301 068
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents ATM_contents }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: AcceptableATMTrafficDescriptor
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 301 443-1 subclause 4.5.6, EN 301 067-1 subclause 8.2.1, EN 301 068
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents ATM_contents }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: AbrSetupParameters
<b>Encoding Variation</b>	:
<b>Comments</b>	: ETS 301 068-1
Type Definition	
<pre>SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     contents          OCTET STRING(SIZE(0..32)) }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: NarrowbandBearerCapabilities
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.2 Repetition of information elements by use of the Broadband repeat indicator information element
Type Definition	
<pre>CHOICE {     single_BC  NarrowbandBearerCapability , -- (1)     repeated_BC Repeated_BC }</pre> <pre>Repeated_BC ::= SEQUENCE {     broadbandRepeatIndicator BroadbandRepeatIndicator,     first_BC                 NarrowbandBearerCapability,     second_BC                NarrowbandBearerCapability,     third_BC                 NarrowbandBearerCapability OPTIONAL }</pre>	
<b>Detailed Comments</b>	: (1) More than one Narrowband bearer capability information elements may be included in SETUP messages.

ASN.1 Type Definition	
<b>Type Name</b>	: NarrowbandBearerCapability
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.2, EN 300 403-1 subclause 4.5.5
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents BC_contents }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: NarrowbandHighLayerCompatibilities
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.3
Type Definition	
<pre>CHOICE {     single_HLC  NarrowbandHighLayerCompatibility , -- (1)     repeated_HLC Repeated_HLC }</pre> <pre>Repeated_HLC ::= SEQUENCE {     first_HLC  NarrowbandHighLayerCompatibility,     second_HLC NarrowbandHighLayerCompatibility }</pre>	
<b>Detailed Comments</b>	: (1) More than one Narrowband high layer compatibility information elements may be included in SETUP messages.

ASN.1 Type Definition	
<b>Type Name</b>	: NarrowbandHighLayerCompatibility
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.3, EN 300 403-1 subclause 4.5.17
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents OCTET STRING(SIZE(0..3)) }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: NarrowbandLowLayerCompatibilities
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.4 Repetition of information elements by use of the Broadband repeat indicator information element
Type Definition	
<pre>CHOICE {     single_LLC NarrowbandLowLayerCompatibility , -- (1)     repeated_LLC Repeated_LLC }  Repeated_LLC ::= SEQUENCE {     broadbandRepeatIndicator BroadbandRepeatIndicator,     first_LLC NarrowbandLowLayerCompatibility,     second_LLC NarrowbandLowLayerCompatibility,     third_LLC NarrowbandLowLayerCompatibility OPTIONAL,     fourth_LLC NarrowbandLowLayerCompatibility OPTIONAL }</pre>	
<b>Detailed Comments</b>	: (1) More than one Narrowband low layer compatibility information elements may be included in SETUP messages.

ASN.1 Type Definition	
<b>Type Name</b>	: NarrowbandLowLayerCompatibility
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.4, EN 300 403-1 subclause 4.5.19
Type Definition	
<pre>SEQUENCE {     iEHeader IEHeader,     iELength IELength,     contents OCTET STRING(SIZE(0..16)) }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ProgressIndicator
<b>Encoding Variation</b>	:
<b>Comments</b>	: EN 300 443-1 subclause 4.6.5, EN 300 403-1 subclause 4.5.23
Type Definition	
<pre> SEQUENCE {     iEHeader          IEHeader,     iELength          IELength,     extension_o3      BIT STRING('1'B), -- Extension bit, set to '1'B     coding_standard   BIT STRING(SIZE(2)),     spare_5           BIT STRING(SIZE(1)), -- Spare bit, normally set to '0'B     location          BIT STRING(SIZE(4)),     extension_o4      BIT STRING('1'B), -- Extension bit, set to '1'B     progress_description BIT STRING(SIZE(7)) } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: Unrecognised_IE
<b>Encoding Variation</b>	:
<b>Comments</b>	: Unrecognised information element, used to check error handling procedures
Type Definition	
<pre> SEQUENCE {     iEHeader  IEHeader,     iELength  IELength,     contents  OCTET STRING -- Contents of unrecognised information element } </pre>	
<b>Detailed Comments</b>	:



Test Suite Operation Definition	
<b>Operation Name</b>	: ESTABLISH_UNDERLYING_LAYERS
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: Empty test suite operation to be completed by the test laboratory.
Description	
<pre>BOOLEAN ESTABLISH_UNDERLYING_LAYERS()</pre> <p>The layer 2 of the IUT at the access related to MTC has to be established before the execution of a test case. The procedures to do so are out of the scope of ETS 300 443-1 and ETS 300 771-1. This test suite operation used in the preambles to enter the Null call state N00 has to be replaced by TTCN code that describes the procedures to establish and/or maintain the underlying layers. The definition of that code has to be agreed between the test laboratory and the IUT provider.</p> <p>The output of this test operation is a BOOLEAN value that describes, whether the underlying layers have been established successfully.</p> <p>Example:  ESTABLISH_UNDERLYING_LAYERS() = TRUE Establishment of underlying layer accomplished.  ESTABLISH_UNDERLYING_LAYERS() = FALSE Establishment of underlying layer failed.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: SEARCH_DESCRIPTOR(ATM_VAL: ATM_contents; DESCR_VAL :BITSTRING)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: Operation to search and verify the value of the parameters included in the ATM TD.
Description	
<pre>BOOLEAN SEARCH_DESCRIPTOR(ATM_VAL,DESCR_VAL)</pre>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: CALCULATE_MSG_LENGTH(IEs: InformationElements)
<b>Result Type</b>	: MessageLength
<b>Comments</b>	: Operation to calculate the message length
Description	
<pre>MessageLength CALCULATE_MSG_LENGTH(IEs)</pre> <p>This operation calculates the length of a message. The amount of octets represented by the set of information elements specified by the parameter IEs is returned.</p> <p>Example: CALCULATE_MSG_LENGTH(IEs_SETUP) = '0000000001011011'B</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: CALCULATE_IE_LENGTH(param: OCTETSTRING)
<b>Result Type</b>	: IELength
<b>Comments</b>	: Operation to calculate the IE length
Description	
IELength CALCULATE_IE_LENGTH(IEs)	
This operation calculates the length of an IE. The amount of octets represented by the set of information elements specified by the parameter IEs is returned.	
Example: CALCULATE_IE_LENGTH(IEs_SETUP) = '0000000001011011'B	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: RANDOM_CREF
<b>Result Type</b>	: Cr_value
<b>Comments</b>	: Operation to obtain a random call reference value.
Description	
Cr_value RANDOM_CREF	
This operation returns a random BITSTRING[23]. The value '000000000000000000000000'B is excluded.	
Example: RANDOM_CREF = '00101001110010010100011'B	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: INVERSE(FL: Flag)
<b>Result Type</b>	: Flag
<b>Comments</b>	: Operation to invert call reference and endpoint reference flags.
Description	
Flag INVERSE(Flag)	
This operation inverts the BIT STRING of size 1 given in the formal parameter FL.	
Examples: INVERSE('0'B) = '1'B INVERSE('1'B) = '0'B	
<b>Detailed Comments</b> :	

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
PC_TAG_NOT_SUPPORTED	BOOLEAN	IND_PICS SCn 3.2	TRUE, if the IUT support the the handle traffic management option for local support of tagging and indicate local tagging not supported
PC_T303MAX	INTEGER	BC_PICS TMn 3	T303 value + 5%; default 4200 ms
PC_T308MAX	INTEGER	BC_PICS TMn 5	T308 value + 5%; default 31500 ms
PC_T322MAX	INTEGER	BC_PICS TMn 11	T322 value + 5%; default 4200 ms
PX_T313MAX	INTEGER	PIXIT 3.1	User side timer T313 value + 5%; default 4200 ms; used to check the response to CONNECT messages (Value in 1/1000 seconds)
PX_TAC	INTEGER	PIXIT 3.2	Value for timer that controls the reaction of the IUT to erroneous messages. (Value in 1/1000 seconds)
PX_TWAIT	INTEGER	PIXIT 3.4	Value for timer that controls test events initiated at the IUT by the test operator. (Value in seconds)
PX_L2_RELEASE_N00	BOOLEAN	PIXIT 1.1	TRUE, if the IUT initiates release of layer 2 after entering N0
PX_CDPN_TON	TON_value	PIXIT 4.1	Type of number of the Called party number information elements to be sent to the IUT
PX_CDPN_ANPI	ANPI_value	PIXIT 4.1	Addressing/Numbering plan identification of the Called party number information elements to be sent to the IUT
PX_LCDPN_PTC1	IELength	PIXIT 4.2	Length of the Called party number information element to be sent to the IUT including the number digits of the access related to PTC1
PX_CPN_PTC1	IA5String	PIXIT 4.2	Number digits (IA5) for the Called party number information element to be sent to the IUT including the number digits of the access related to PTC1
PX_LCDPN_MTC1	IELength	PIXIT 4.3	Length of the Called party number information element to be sent to the remote access including the number digits of a subscriber at the access related to the MTC
PX_CPN_MTC1	IA5String	PIXIT 4.3	Number digits (IA5) for the Called party number information element to be sent to the remote access including the number digits of a subscriber at the access related to the MTC
PX_BBC_VALUE	BBC_contents	PIXIT 4.4	Contents (octet 5 onwards) of the Broadband bearer capability information element (User-plane connection configuration = point-to-multipoint) to be sent to the IUT
PX_BBC_ABR_VALUE	BBC_contents	PIXIT 4.5	Contents (octet 5 onwards) of the Broadband bearer capability information element (User-plane connection configuration = point-to-multipoint, ABR in broadband transfer capability field) to be sent to the IUT
PX_BBC_BTC_VALUE	BBC_contents	PIXIT 4.6	Contents (octet 5 onwards) of the Broadband bearer capability information element (User-plane connection configuration = point-to-multipoint, broadband transfer capability field present) to be sent to the IUT
PX_BBC_SBR2_VALUE	BBC_contents	PIXIT 4.7	Contents (octet 5 onwards) of the Broadband bearer capability information element (User-plane connection configuration = point-to-multipoint, broadband transfer capability field = SBR2) to be sent to the IUT

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Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
PX_BBC_SBR3_VALUE	BBC_contents	PIXIT 4.8	Contents (octet 5 onwards) of the Broadband bearer capability information element (User-plane connection configuration = point-to-multipoint, broadband transfer capability field = SBR3) to be sent to the IUT
PX_BBC_INCOMP_VALUE	BBC_contents	PIXIT 4.9	Contents (octet 5 onwards) of an incompatible Broadband bearer capability information element to be sent to the IUT
PX_ATM_COMP_VALUE	ATM_contents	PIXIT 4.10	Contents (octet 5 onwards) of the ATM traffic descriptor to be sent to the IUT.
PX_ATM_SUST_VALUE	ATM_contents	PIXIT 4.11	Contents (octet 5 onwards) of the ATM traffic descriptor (including sustainable cell rate parameter) to be sent to the IUT.
PX_ATM_ABR_VALUE	ATM_contents	PIXIT 4.12	Contents (octet 5 onwards) of the ATM traffic descriptor (including MCR for ABR negotiation) to be sent to the IUT.
PX_ATM_SBR2_VALUE	ATM_contents	PIXIT 4.13	Contents (octet 5 onwards) of the ATM traffic descriptor (for SBR2 transfer capability) to be sent to the IUT.
PX_ATM_SBR3_VALUE	ATM_contents	PIXIT 4.14	Contents (octet 5 onwards) of the ATM traffic descriptor (including MCR for ABR negotiation) to be sent to the IUT.
PX_ATM_INCOMP_VALUE	ATM_contents	PIXIT 4.15	Contents (octet 5 onwards) of the incompatible ATM traffic descriptor to be sent to the IUT
PX_ABR_VALUE	ABR_contents	PIXIT 4.16	Contents (octet 5 onwards) of the Available Bit Rate setup parameter IE to be sent to the IUT
PX_ABR_INCOMP_VALUE	ABR_contents	PIXIT 4.17	Contents (octet 5 onwards) of an incompatible Available Bit Rate setup parameter IE to be sent to the IUT
PX_ATM_ABT_VALUE	ATM_contents	PIXIT 4.18	Contents (octet 5 onwards) of the ATM traffic descriptor (including RM pcr parameter for Atm block transfer negotiation) to be sent to the IUT.
PX_VPCI	VCI_VPCI_value	PIXIT 4.19	Preferred path connection
PX_VCI	VCI_VPCI_value	PIXIT 4.20	Preferred virtual channel
<b>Detailed Comments</b> : The PICS/PIXIT references are taken from the proformas in the following specifications: BC_PICS: ETS 300 443-2; IND_PICS: EN 301 068-2; PIXIT: EN 301 068-6 Annex B			

Test Case Selection Expression Definitions		
Expression Name	Selection Expression	Comments
TAGGING_NOT_SUPPORTED	PC_TAG_NOT_SUPPORTED	TRUE, if the IUT support the the handle traffic management option for local support of tagging and indicate local tagging not supported
Detailed Comments :		

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
Q2931	ProtocolDiscriminator	'00001001'B	(1)
AL	MessageIdentifier	'00000001'B	ALERTING
CPR	MessageIdentifier	'00000010'B	CALL PROCEEDING
CN	MessageIdentifier	'00000111'B	CONNECT
CA	MessageIdentifier	'00001111'B	CONNECT ACKNOWLEDGE
RL	MessageIdentifier	'01001101'B	RELEASE
RC	MessageIdentifier	'01011010'B	RELEASE COMPLETE
SU	MessageIdentifier	'00000101'B	SETUP
ST	MessageIdentifier	'01111101'B	STATUS
SQ	MessageIdentifier	'01110101'B	STATUS ENQUIRY
Called_party_number_ID	IEIdentifier	'01110000'B	
Called_party_subaddress_ID	IEIdentifier	'01110001'B	
Calling_party_number_ID	IEIdentifier	'01101100'B	
Calling_party_subaddress_ID	IEIdentifier	'01101101'B	
EndToEnd_transit_delay_ID	IEIdentifier	'01000010'B	
Broadband_sending_complete_ID	IEIdentifier	'01100010'B	
AAL_parameters_ID	IEIdentifier	'01011000'B	
ATM_traffic_descriptor_ID	IEIdentifier	'01011001'B	
Connection_identifier_ID	IEIdentifier	'01011010'B	
QOS_parameter_ID	IEIdentifier	'01011100'B	
Transit_Network_Selection_ID	IEIdentifier	'01111000'B	
Broadband_bearer_capability_ID	IEIdentifier	'01011110'B	
Broadband_high_layer_info_ID	IEIdentifier	'01011101'B	
Broadband_low_layer_info_ID	IEIdentifier	'01011111'B	
Notification_indicator_ID	IEIdentifier	'00100111'B	
Call_state_ID	IEIdentifier	'00010100'B	
Cause_ID	IEIdentifier	'00001000'B	
Alternative_ATM_descriptor_ID	IEIdentifier	'10000010'B	
Acceptable_ATM_descriptor_ID	IEIdentifier	'10000001'B	
Abr_setup_parameters_ID	IEIdentifier	'10000100'B	
Narrowband_bearer_capability_ID	IEIdentifier	'00000100'B	
Narrowband_high_layer_comp_ID	IEIdentifier	'01111101'B	
Narrowband_low_layer_comp_ID	IEIdentifier	'01111100'B	
Progress_indicator_ID	IEIdentifier	'00011110'B	
SUSTAINABLE_D	Rate_Id	'10001000'B	
MAX_BURST_D	Rate_Id	'10100000'B	
TAGGING_D	Rate_Id	'10111111'B	
RMpcr_D	Rate_Id	'11000000'B	
SBR2	BTC_value	'0010100'B	
SBR3	BTC_value	'0010101'B	
for_SCR_CLP0	Rate_Id	'10010000'B	
back_SCR_CLP0	Rate_Id	'10010001'B	
for_MBS_CLP0	Rate_Id	'10100000'B	
back_MBS_CLP0	Rate_Id	'10100001'B	
for_PCR_CLP01	Rate_Id	'10000100'B	
back_PCR_CLP01	Rate_Id	'10000101'B	
F0	Flag	'0'B	Flag values
F1	Flag	'1'B	
C16	Cause_value	'0010000'B	
C30	Cause_value	'0011110'B	
C37	Cause_value	'0100101'B	

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Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C96	Cause_value	'1100000'B	Link states
C99	Cause_value	'1100011'B	
C100	Cause_value	'1100100'B	
C65	Cause_value	'1000001'B	
C73	Cause_value	'1001001'B	
N0	State_value	'000000'B	
N3	State_value	'000011'B	
N6	State_value	'000110'B	
N8	State_value	'001000'B	
N10	State_value	'001010'B	
N12	State_value	'001100'B	
TAG_SUPORTED	BITSTRING	'00000011'B	
TAG_REQUESTED	BITSTRING	'00000011'B	
TAG_NOT_ALLOWED	BITSTRING	'00000000'B	
TAG_APPLIED	BITSTRING	'00000001'B	
TAG_NOT_APPLIED	BITSTRING	'00000000'B	
Detailed Comments : (1) Q.2931 user-network call/connection control messages			

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
CREF	Cr_value		Call reference value
VPAS	VPAS_value		VP-associated signalling value
VCI	VCI_VPCI_value		VCI value
VPCI	VCI_VPCI_value		VPCI value
CAUV	Cause_value		Cause value
STATUS_EXPECTED	BOOLEAN	FALSE	Variable to control the receipt of STATUS messages
PTC_ACTIVATED	BOOLEAN	TRUE	Variable to handle test cases where PTC1 is not activated
END_FLAG	BOOLEAN	FALSE	Control flag for REPEAT loops
INV_FL	Flag		Inverted call reference flag
<b>Detailed Comments :</b>			



PCO Type Declarations		
PCO Type	Role	Comments
SAP	LT	
<b>Detailed Comments :</b>		

PCO Declarations			
PCO Name	PCO Type	Role	Comments
L0	SAP	LT	PCO for MTC (1)
L1	SAP	LT	PCO for PTC1 (1)
O	SAP	UT	(2)
<b>Detailed Comments :</b> (1) SAP at the lower tester controlling and observing the exchange of call control PDUs (messages) on the broadband ISDN layer 3 D-channel. The lower tester is the user of the data link layer service. (2) SAP at the upper tester observing messages displayed on the lower tester's screen and controlling the initiation of test events at the IUT. The upper tester is the test operator.			

Coordination Point Declarations	
CP Name	Comments
CPA1	CP: MTCA - PTC1
<b>Detailed Comments :</b>	

Timer Declarations			
Timer Name	Duration	Unit	Comments
TWAIT	PX_TWAIT	s	(1)
TAC	PX_TAC	ms	(3)
T303	PC_T303MAX	ms	
T308	PC_T308MAX	ms	
T313	PX_T313MAX	ms	
T322	PC_T322MAX	ms	
<b>Detailed Comments :</b> (1) Timer to control test events initiated at the IUT by the test operator. (2) Timers to test the implementation of IUT timers. Duration values are assigned in the dynamic part. (3) Timer to control the reaction of the IUT to erroneous messages. (4) Timer to control the inactivity of the IUT.			

Test Component Declarations				
Component Name	Component Role	Nr PCOs	Nr CPs	Comments
MTCA	MTC	2	1	main test component
PTC1	PTC	1	1	1st parallel test component
<b>Detailed Comments :</b>				

Test Components Configuration Declaration			
<b>Configuration Name</b> : CONFIG0			
<b>Comments</b> :			
Components Used	PCOs Used	CPs Used	Comments
MTCA	L0 , O		
<b>Detailed Comments</b> :			

Test Components Configuration Declaration			
<b>Configuration Name</b> : CONFIG1			
<b>Comments</b> :			
Components Used	PCOs Used	CPs Used	Comments
MTCA	L0 , O	CPA1	
PTC1	L1	CPA1	
<b>Detailed Comments</b> :			

ASP Type Definition		
<b>ASP Name</b> : AAL_EST_IN (AAL-ESTABLISH-INDICATION) <b>PCO Type</b> : SAP <b>Comments</b> : This ASP is used to indicate the establishment of an AAL connection (L2 ---> L3).		
Parameter Name	Parameter Type	Comments
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : AAL_REL_IN (AAL-RELEASE-INDICATION) <b>PCO Type</b> : SAP <b>Comments</b> : This ASP is used to confirm the termination of an established AAL connectionn or to report an unsuccessful establishment attempt (L2 ---> L3).		
Parameter Name	Parameter Type	Comments
<b>Detailed Comments</b> :		

## ASN.1 PDU Type Definition

**PDU Name** : DSS2\_PDU**PCO Type** : SAP**Encoding Rule Name** :**Encoding Variation** :**Comments** : ETS 300 443-1 subclause 3.1

## Type Definition

```
SEQUENCE {  
    messageHeader      MessageHeader,  
    messageLength      MessageLength,  
    informationElements InformationElements OPTIONAL  
}
```

**Detailed Comments** :



CM Type Definition		
<b>CM Name</b> : CP_M		
<b>Comments</b> : coordination message		
Parameter Name	Parameter Type	Comments
CM_content	IA5String	message content in clear text
<b>Detailed Comments</b> :		

## **III**

### **Constraints Part**

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: MSG_HDR_receive (MSG_TYPE: MessageIdentifier; FLAG: Flag; CALL_REF: Cr_value)
<b>ASN1 Type</b>	: MessageHeader
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving messages
Constraint Value	
<pre>{   protocolDiscriminator Q2931,   callReference         CR1(FLAG,CALL_REF), -- parametrized call reference   messageType {     message_type      MSG_TYPE,           -- parametrized message type     extension         '1'B,     spare_67          '00'B,     mt_flag           ?,                   -- any value     spare_34          '00'B,     action_indicator  ('00'B,'01'B,'10'B) -- any non-reserved value   } }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: MSG_HDR_receive_SETUP
<b>ASN1 Type</b>	: MessageHeader
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving SETUP messages with an unknown call reference value
Constraint Value	
<pre>{   protocolDiscriminator Q2931,   callReference         CR2,               -- call reference with unknown value   messageType {     message_type      SU,                 -- SETUP message     extension         '1'B,     spare_67          '00'B,     mt_flag           ?,                   -- any value     spare_34          '00'B,     action_indicator  ('00'B,'01'B,'10'B) -- any non-reserved value   } }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: MSG_HDR_receive_any(FLAGS: Flag; CALL_REF: Cr_value)
<b>ASN1 Type</b>	: MessageHeader
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving unexpected messages in PTC default trees
Constraint Value	
<pre> {   protocolDiscriminator Q2931,   callReference         CR1(FLAGS,CALL_REF), -- parametrized call reference   messageType {     message_type      ?, -- any message type     extension         '1'B,     spare_67          '00'B,     mt_flag           ?, -- any value     spare_34          '00'B,     action_indicator ('00'B,'01'B,'10'B) -- any non-reserved value   } } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: MSG_HDR_send(MSG_TYPE: MessageIdentifier; FLAGS: Flag; CALL_REF: Cr_value)
<b>ASN1 Type</b>	: MessageHeader
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for sending messages
Constraint Value	
<pre> {   protocolDiscriminator Q2931,   callReference         CR1(FLAGS,CALL_REF), -- parametrized call reference   messageType {     message_type      MSG_TYPE, -- parametrized message type     extension         '1'B,     spare_67          '00'B,     mt_flag           '0'B, -- message instruction field not significant     spare_34          '00'B,     action_indicator '10'B -- value without significance   } } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CR1(FLAGS: Flag; CALL_REF: Cr_value)
<b>ASN1 Type</b>	: CallReference
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for sending and receiving
Constraint Value	
<pre> {   bits5_8  '0000'B, -- fixed value   cr_length '0011'B, -- length = 3   cr_flag  FLAGS, -- parametrized flag   cr_value CALL_REF -- parametrized value } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CR2
<b>ASN1 Type</b>	: CallReference
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving SETUP messages
Constraint Value	
<pre>{   bits5_8      '0000'B, -- fixed value   cr_length    '0011'B, -- length = 3   cr_flag      '0'B,    -- originator   cr_value     ?        -- any call reference value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: IE_HDR_receive(IE_ID: IEIdentifier)
<b>ASN1 Type</b>	: IEHeader
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving information elements
Constraint Value	
<pre>{   iEIdentifier    IE_ID, -- parametrized information element identifier   extension       '1'B,   coding_standard '00'B,   ie_flag         '? 'B, -- any value   reserved        '0'B,   action_indicator ('000'B,'001'B,'010'B,'101'B,'110'B) -- any non-reserved value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: IE_HDR_send(IE_ID: IEIdentifier)
<b>ASN1 Type</b>	: IEHeader
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for sending information elements
Constraint Value	
<pre>{   iEIdentifier    IE_ID, -- parametrized information element identifier   extension       '1'B,   coding_standard '00'B,   ie_flag         '0'B, -- IE instruction field not significant   reserved        '0'B,   action_indicator '110'B -- value without significance }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: AALP_R
<b>ASN1 Type</b>	: ATMAdaptionLayerParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(AAL_parameters_ID),   iELength '000000000000????'B, -- maximum length = 17 octets   contents ?                      -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_S
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Abr_setup_parameters_ID),   iELength CALCULATE_IE_LENGTH(PX_ABR_VALUE),   contents PX_ABR_VALUE }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_S_NO_OPT
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Abr_setup_parameters_ID),   iELength '0000000000000000'B,   contents OMIT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_S_INCOMP
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Abr_setup_parameters_ID),   iELength CALCULATE_IE_LENGTH(PX_ABR_INCOMP_VALUE),   contents PX_ABR_INCOMP_VALUE }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_S_INV
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint, ABR setup parameter incomplete
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Abr_setup_parameters_ID),   iELength CALCULATE_IE_LENGTH(PX_ABR_INCOMP_VALUE),   contents PX_ABR_INCOMP_VALUE }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_S_UNSP
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint, ABR setup parameter incomplete
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Abr_setup_parameters_ID),   iELength '00000000000000001'B,   contents '00'O }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_R
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Abr_setup_parameters_ID),   iELength '0000000000?????'B, -- maximum length = 32 octets   contents ? }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ABR_R1
<b>ASN1 Type</b>	: AbrSetupParameters
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Abr_setup_parameters_ID),   iELength '0000000000?????'B, -- maximum length = 32 octets   contents ? }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_R
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(ATM_traffic_descriptor_ID),   iELength '0000000000?????'B,   contents ? }</pre>	
<b>Detailed Comments</b> :	



ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_R_ABR
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
{ iEHeader IE_HDR_receive(ATM_traffic_descriptor_ID), iELength '0000000000?????'B, contents ?, tagging_id OMIT, tagging_opt OMIT }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_R_TAG(TAG_OPT_VAL : BITSTRING)
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
{ iEHeader IE_HDR_receive(ATM_traffic_descriptor_ID), iELength '0000000000?????'B, contents ?, tagging_id TAGGING_D, tagging_opt TAG_OPT_VAL }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: MA_ATMTD_R
<b>ASN1 Type</b>	: AcceptableATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
{ iEHeader IE_HDR_receive(Acceptable_ATM_descriptor_ID), iELength '0000000000?????'B, contents ? }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: A_ATMTD_R
<b>ASN1 Type</b>	: AlternativeATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Alternative_ATM_descriptor_ID),   iELength '0000000000?????'B,   contents ? }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH (PX_ATM_COMP_VALUE),   contents PX_ATM_COMP_VALUE }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_SUST
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH(PX_ATM_SUST_VALUE),   contents PX_ATM_SUST_VALUE,   tagging_id OMIT,   tagging_opt OMIT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_ABR
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH(PX_ATM_ABR_VALUE),   contents PX_ATM_ABR_VALUE,   tagging_id OMIT,   tagging_opt OMIT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_ABT
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH(PX_ATM_ABT_VALUE),   contents PX_ATM_ABT_VALUE,   tagging_id OMIT,   tagging_opt OMIT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_TAG (TAG_OPT_VAL : BITSTRING)
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH(PX_ATM_COMP_VALUE),   contents PX_ATM_COMP_VALUE,   tagging_id TAGGING_D,   tagging_opt TAG_OPT_VAL }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_SBR2
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH(PX_ATM_SBR2_VALUE),   contents PX_ATM_SBR2_VALUE,   tagging_id OMIT,   tagging_opt OMIT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_SBR3
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH(PX_ATM_SBR3_VALUE),   contents PX_ATM_SBR3_VALUE,   tagging_id OMIT,   tagging_opt OMIT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_INCOMP
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength CALCULATE_IE_LENGTH (PX_ATM_INCOMP_VALUE),   contents PX_ATM_INCOMP_VALUE }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ATMTD_S_INVALID
<b>ASN1 Type</b>	: ATMTrafficDescriptor
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(ATM_traffic_descriptor_ID),   iELength '0000000000000011'B,   contents 'FF00FF'O }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_R
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Broadband_bearer_capability_ID),   iELength '00000000000000???'B,          -- maximum length   contents receive   {     extension_o5 ?,     spare_67      '00'B,     bearer_class  ('00001'B, '00011'B, '00101'B, '10000'B), -- allowed values     octet5a       *,     extension_o6  '1'B,     sus_clip      ('00'B, '01'B), -- allowed values     spare_345     '000'B,     user_config   ('00'B, '01'B), -- allowed values     octet7        *   } }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_R_BTC
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader IE_HDR_receive(Broadband_bearer_capability_ID),   iELength '0000000000000000???'B,          -- maximum length   contents receive     {       extension_o5 '0'B,       spare_67     '00'B,       bearer_class {'00001'B, '00011'B, '00101'B, '10000'B}, -- allowed values       octet5a      {         extension_o5a '1'B,         btc           ?       },       extension_o6 '1'B,       sus_clip     ('00'B, '01'B), -- allowed values       spare_345    '000'B,       user_config  ('00'B, '01'B), -- allowed values       octet7       *     } } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_R_ABT
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader IE_HDR_receive(Broadband_bearer_capability_ID),   iELength '0000000000000000???'B,          -- maximum length   contents receive     {       extension_o5 '0'B,       spare_67     '00'B,       bearer_class {'00001'B, '00011'B, '00101'B, '10000'B}, -- allowed values       octet5a      {         extension_o5a '1'B,         btc           ('0010000'B, -- ABT-DT                       '0010001'B) -- ABT-IT       },       extension_o6 '1'B,       sus_clip     ('00'B, '01'B), -- allowed values       spare_345    '000'B,       user_config  ('00'B),          -- point-to-point       octet7       *     } } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_R_ABR
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader IE_HDR_receive(Broadband_bearer_capability_ID),   iELength '0000000000000000???'B,          -- maximum length   contents receive     {       extension_o5 '0'B,       spare_67     '00'B,       bearer_class {'00001'B, '00011'B, '00101'B, '10000'B}, -- allowed values       octet5a      {         extension_o5a '1'B,         btc           '0001100'B -- ABR       },       extension_o6 '1'B,       sus_clip     ('00'B, '01'B), -- allowed values       spare_345    '000'B,       user_config  ('00'B),        -- point-to-point       octet7       *     } } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_R_SBR(BTC: BTC_value)
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader IE_HDR_receive(Broadband_bearer_capability_ID),   iELength '0000000000000000???'B,          -- maximum length   contents receive     {       extension_o5 '0'B,       spare_67     '00'B,       bearer_class {'00001'B, '00011'B, '00101'B, '10000'B}, -- allowed values       octet5a      {         extension_o5a '1'B,         btc           BTC -- parametrized value       },       extension_o6 '1'B,       sus_clip     ('00'B, '01'B), -- allowed values       spare_345    '000'B,       user_config  ('00'B),        -- point-to-point       octet7       *     } } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
{ iEHeader IE_HDR_send(Broadband_bearer_capability_ID), iELength CALCULATE_IE_LENGTH (PX_BBC_VALUE), -- test suite parameter contents send PX_BBC_VALUE -- test suite parameter }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S_INCOMP
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
{ iEHeader IE_HDR_send(Broadband_bearer_capability_ID), iELength CALCULATE_IE_LENGTH (PX_BBC_INCOMP_VALUE), -- test suite parameter contents send PX_BBC_INCOMP_VALUE -- test suite parameter }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S_ABR
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
{ iEHeader IE_HDR_send(Broadband_bearer_capability_ID), iELength CALCULATE_IE_LENGTH (PX_BBC_ABR_VALUE), -- test suite parameter contents send PX_BBC_ABR_VALUE -- test suite parameter }	
<b>Detailed Comments</b> :	



ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S_BTC
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Broadband_bearer_capability_ID),   iELength CALCULATE_IE_LENGTH (PX_BBC_BTC_VALUE), -- test suite parameter   contents send PX_BBC_BTC_VALUE -- test suite parameter }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S_ABT
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Broadband_bearer_capability_ID),   iELength CALCULATE_IE_LENGTH (PX_BBC_BTC_VALUE), -- test suite parameter   contents send PX_BBC_BTC_VALUE -- test suite parameter }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S_SBR2
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Broadband_bearer_capability_ID),   iELength CALCULATE_IE_LENGTH (PX_BBC_SBR2_VALUE), -- test suite parameter   contents send PX_BBC_SBR2_VALUE -- test suite parameter }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BBC_S_SBR3
<b>ASN1 Type</b>	: BroadbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_send(Broadband_bearer_capability_ID),   iELength CALCULATE_IE_LENGTH (PX_BBC_SBR3_VALUE), -- test suite parameter   contents send PX_BBC_SBR3_VALUE -- test suite parameter }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BHL_C_R
<b>ASN1 Type</b>	: BroadbandHighLayerInformation
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Broadband_high_layer_info_ID),   iELength '0000000000000000' B, -- maximum length = 9 octets   contents ? -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BLLC_R
<b>ASN1 Type</b>	: BroadbandLowLayerInformation
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Broadband_low_layer_info_ID),   iELength '0000000000000000' B, -- maximum length = 13 octets   contents ? -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BSC_R
<b>ASN1 Type</b>	: BroadbandSendingComplete
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Broadband_sending_complete_ID),   iELength      '0000000000000001'B, -- length = 1 octet   extension_o5   '1'B,   bsc_indication '0100001'B }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BSC_S
<b>ASN1 Type</b>	: BroadbandSendingComplete
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_send(Broadband_sending_complete_ID),   iELength      '0000000000000001'B,   extension_o5   '1'B,   bsc_indication '0100001'B }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CAU_R
<b>ASN1 Type</b>	: Cause
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Cause_ID),   iELength      ?, -- any value   extension_o5   '1'B,   spare_567      '000'B,   location       ?, -- any value   extension_o6   '1'B,   cause_value    ?, -- any value   diagnostics    *, -- any value or empty }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CAU_R1(CAU_VAL: Cause_value)
<b>ASN1 Type</b>	: Cause
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint with parametrized cause value
Constraint Value	
<pre> {   iEHeader      IE_HDR_receive(Cause_ID),   iELength      ?,          -- any value   extension_o5   '1'B,   spare_567     '000'B,   location      ?,          -- any value   extension_o6   '1'B,   cause_value    CAU_VAL,   -- parametrized cause value   diagnostics    *          -- any value or empty } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CAU_S1(CAU_VAL: Cause_value)
<b>ASN1 Type</b>	: Cause
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint, Parametrized cause value
Constraint Value	
<pre> {   iEHeader      IE_HDR_send(Cause_ID),   iELength      '0000000000000010'B,   extension_o5   '1'B,   spare_567     '000'B,   location      '0000'B, -- user   extension_o6   '1'B,   cause_value    CAU_VAL -- parametrized cause value } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CDPN_R
<b>ASN1 Type</b>	: CalledPartyNumber
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader      IE_HDR_receive(Called_party_number_ID),   iELength      ?,          -- maximum length network dependend   extension_o5   '1'B,   cpn_type      ?,          -- any value   numbering_plan_id ?,      -- any value   address_digits *          -- any value or empty } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CDPN_PTC1
<b>ASN1 Type</b>	: CalledPartyNumber
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint indicating the party number of the access related to PTC1
Constraint Value	
<pre>{   iEHeader      IE_HDR_send(Called_party_number_ID),   iELength      PX_LCDPN_PTC1, -- test suite parameter   extension_o5   '1'B,   cpn_type       PX_CDPN_TON,   -- test suite parameter   numbering_plan_id PX_CDPN_ANPI, -- test suite parameter   address_digits PX_CPN_PTC1    -- test suite parameter, party number of PTC1 }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CDPN_MTC1
<b>ASN1 Type</b>	: CalledPartyNumber
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint indicating a first party number of the access related to the MTC
Constraint Value	
<pre>{   iEHeader      IE_HDR_send(Called_party_number_ID),   iELength      PX_LCDPN_MTC1, -- test suite parameter   extension_o5   '1'B,   cpn_type       PX_CDPN_TON,   -- test suite parameter   numbering_plan_id PX_CDPN_ANPI, -- test suite parameter   address_digits PX_CPN_MTC1    -- test suite parameter, first party number of MTC }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CDPS_R
<b>ASN1 Type</b>	: CalledPartySubaddress
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Called_party_subaddress_ID),   iELength      '000000000000????'B, -- maximum length = 21 octets   extension_o5   '1'B,   cps_type       ?,                     -- any value   odd_even_indicator ?,                 -- any value   spare_123      '000'B,   subaddress_info *                     -- any value or empty }</pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CGPN_R
<b>ASN1 Type</b>	: CallingPartyNumber
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Calling_party_number_ID),   iELength      ?,      -- maximum length network dependend   extension_o5   '1'B,   cpn_type       ?,      -- any value   numbering_plan_id ?,    -- any value   octet5a        *,      -- any value or empty   address_digits *,      -- any value or empty }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CGPS_R
<b>ASN1 Type</b>	: CallingPartySubaddress
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Calling_party_subaddress_ID),   iELength      '000000000000?????'B, -- maximum length = 21 octets   extension_o5   '1'B,   cps_type       ?,      -- any value   odd_even_indicator ?,    -- any value   spare_123      '000'B,   subaddress_info *,      -- any value or empty }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CST_R1
<b>ASN1 Type</b>	: CallState
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Call_state_ID),   iELength      '0000000000000001'B,   spare_87      '00'B,   call_state ?      -- Any call state value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CST_R2(CST_VAL: State_value)
<b>ASN1 Type</b>	: CallState
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint with parametrized call state value
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Call_state_ID),   iELength      '0000000000000001'B,   spare_87      '00'B,   call_state    CST_VAL          -- Parametrized call state value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CI_R1
<b>ASN1 Type</b>	: ConnectionIdentifier
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Connection_identifier_ID),   iELength      '0000000000000101'B,   extension_o5   '1'B,   spare_67      '00'B,   vp_assoc_signalling '01'B,    -- Explicit indication of VPCI   preferred_exclusive '00?'B,    -- Any non-reserved value   vpci          PX_VPCI, -- Test suite parameter   vci           PX_VCI  -- Test suite parameter }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CI_R2
<b>ASN1 Type</b>	: ConnectionIdentifier
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Connection_identifier_ID),   iELength      '0000000000000101'B,   extension_o5   '1'B,   spare_67      '00'B,   vp_assoc_signalling '0?'B,    -- VP-associated signalling or explicit indication of VPCI   preferred_exclusive '001'B,    -- Exclusive VPCI; any VCI   vpci          ?,              -- Any Virtual Path Connection Identifier value   vci           ?              -- Any Virtual Channel Identifier value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CI_R3
<b>ASN1 Type</b>	: ConnectionIdentifier
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Connection_identifier_ID),   iELength      '0000000000000101'B,   extension_o5   '1'B,   spare_67      '00'B,   vp_assoc_signalling '0?'B, -- VP-associated signalling or explicit indication of VCPI   preferred_exclusive '000'B, -- Exclusive VPCI; exclusive VCI   vpci          ?,          -- Any Virtual Path Connection Identifier value   vci           ?          -- Any Virtual Channel Identifier value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CI_R4
<b>ASN1 Type</b>	: ConnectionIdentifier
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_receive(Connection_identifier_ID),   iELength      '0000000000000101'B,   extension_o5   '1'B,   spare_67      '00'B,   vp_assoc_signalling '0?'B, -- VP-associated signalling or explicit indication of VCPI   preferred_exclusive '00?'B, -- Exclusive VPCI; exclusive or any VCI   vpci          ?,          -- Any Virtual Path Connection Identifier value   vci           ?          -- Any Virtual Channel Identifier value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CI_S1(VPCI_VAL, VCI_VAL: VCI_VPCI_value; VPAS_VAL: VPAS_value)
<b>ASN1 Type</b>	: ConnectionIdentifier
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_send(Connection_identifier_ID),   iELength      '0000000000000101'B,   extension_o5   '1'B,   spare_67      '00'B,   vp_assoc_signalling VPAS_VAL, -- Parametrized value   preferred_exclusive '000'B, -- Exclusive VPCI; exclusive VCI   vpci          VPCI_VAL, -- Parametrized Virtual Path Connection Identifier value   vci           VCI_VAL  -- Parametrized Virtual Channel Identifier value }</pre>	
<b>Detailed Comments</b> :	



ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CI_S2
<b>ASN1 Type</b>	: ConnectionIdentifier
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader      IE_HDR_send(Connection_identifier_ID),   iELength       '0000000000000101'B,   extension_o5   '1'B,   spare_67       '00'B,   vp_assoc_signalling '01'B, -- VP-associated signalling   preferred_exclusive '000'B, -- Exclusive VPCI; exclusive VCI   vpci           PX_VPCI, -- Test suite parameter   vci            PX_VCI  -- Test suite parameter }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ETD_R
<b>ASN1 Type</b>	: EndToEndTransitDelay
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(EndToEnd_transit_delay_ID),   iELength '0000000000000000???B, -- maximum length = 6 octets   cumulative_td_id '00000001'B,   cumulative_td    '?', -- any value   maximum_td       '*', -- any value or empty }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: NBC_R
<b>ASN1 Type</b>	: NarrowbandBearerCapability
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Narrowband_bearer_capability_ID),   iELength '00000000000000000000???B, -- maximum length = 10 octets   contents ? -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: NHLC_R
<b>ASN1 Type</b>	: NarrowbandHighLayerCompatibility
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Narrowband_high_layer_comp_ID),   iELength '00000000000000??'B, -- maximum length = 3 octets   contents ?                      -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: NLLC_R
<b>ASN1 Type</b>	: NarrowbandLowLayerCompatibility
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Narrowband_low_layer_comp_ID),   iELength '000000000000????'B, -- maximum length = 16 octets   contents ?                      -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: NI_R
<b>ASN1 Type</b>	: NotificationIndicator
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre>{   iEHeader IE_HDR_receive(Notification_indicator_ID),   iELength ?, -- maximum length application dependent   contents ? -- any value }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: PI_R
<b>ASN1 Type</b>	: ProgressIndicator
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader      IE_HDR_receive(Progress_indicator_ID),   iELength      '00000000000000010'B,   extension_o3   '1'B,   coding_standard ?,      -- any value   spare_5        '0'B,   location       ?,      -- any value   extension_o4   '1'B,   progress_description ?  -- any value } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: QOS_R
<b>ASN1 Type</b>	: QualityOfServiceParameter
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader      IE_HDR_receive(QOS_parameter_ID),   iELength      '00000000000000010'B,   qos_class_fwd '00000000'B, -- unspecified QOS class   qos_class_bwd '00000000'B -- unspecified QOS class } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: QOS_S
<b>ASN1 Type</b>	: QualityOfServiceParameter
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint
Constraint Value	
<pre> {   iEHeader      IE_HDR_send(QOS_parameter_ID),   iELength      '00000000000000010'B,   qos_class_fwd '00000000'B, -- unspecified QOS class   qos_class_bwd '00000000'B -- unspecified QOS class } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: TNS_R
<b>ASN1 Type</b>	: TransitNetworkSelection
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint
Constraint Value	
<pre> {   iEHeader      IE_HDR_receive(Transit_Network_Selection_ID),   iELength      ?,          -- any value   extension_o5   '1'B,   type_of_nw_id '0??'B,    -- any non-reserved value   nw_plan_id    '00??'B,   -- any non-reserved value   nw_id         *          -- any value or empty } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: AL_S1(VPCI_VAL, VCI_VAL: VCI_VPCI_value; VPAS_VAL: VPAS_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for ALERTING.
Constraint Value	
<pre> iEs_ALERTING {   connectionIdentifier  CI_S1(VPCI_VAL,VCI_VAL,VPAS_VAL) } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CP_R1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for CALL PROCEEDING messages
Constraint Value	
<pre> iEs_CALL_PROCEEDING {   connectionIdentifier      CI_R1 IF_PRESENT,   narrowbandBearerCapability NBC_R IF_PRESENT,   narrowbandHighLayerCompatibility NHLC_R IF_PRESENT,   notificationIndicator     NI_R IF_PRESENT,   progressIndicator         PI_R IF_PRESENT } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CP_S1(VPCI_VAL, VCI_VAL: VCI_VPCI_value; VPAS_VAL: VPAS_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for CALL PROCEEDING messages
Constraint Value	
<pre>iEs_CALL_PROCEEDING {   connectionIdentifier  CI_S1(VPCI_VAL,VCI_VAL,VPAS_VAL) }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CN_R1(ATMTD:ATMTrafficDescriptor)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for CONNECT messages
Constraint Value	
<pre>iEs_CONNECT {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   broadbandLowLayerInformation      BLLC_R IF_PRESENT,   connectionIdentifier              CI_R1 IF_PRESENT,   endToEndTransitDelay              ETD_R IF_PRESENT,   narrowbandBearerCapability        NBC_R IF_PRESENT,   narrowbandHighLayerCompatibility NHLC_R IF_PRESENT,   narrowbandLowLayerCompatibility  NLLC_R IF_PRESENT,   notificationIndicator             NI_R IF_PRESENT,   aTMTrafficDescriptor              ATMTD,   abrSetupParameters               ABR_R IF_PRESENT,   oAMTrafficDescriptor              OMIT,      -- OAM traffic descriptor absent   progressIndicator                 PI_R IF_PRESENT }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CN_R1_ABR(ATMTD:ATMTrafficDescriptor; ABR: AbrSetupParameters)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for CONNECT messages
Constraint Value	
<pre> iEs_CONNECT {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   broadbandLowLayerInformation      BLLC_R IF_PRESENT,   connectionIdentifier              CI_R1 IF_PRESENT,   endToEndTransitDelay              ETD_R IF_PRESENT,   narrowbandBearerCapability        NBC_R IF_PRESENT,   narrowbandHighLayerCompatibility NHLC_R IF_PRESENT,   narrowbandLowLayerCompatibility  NLLC_R IF_PRESENT,   notificationIndicator             NI_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD,   abrSetupParameters               ABR,   oAMTrafficDescriptor             OMIT,          -- OAM traffic descriptor absent   progressIndicator                 PI_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CN_S1(VPCI_VAL, VCI_VAL: VCI_VPCI_value; VPAS_VAL: VPAS_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for CONNECT messages
Constraint Value	
<pre> iEs_CONNECT {   connectionIdentifier  CI_S1(VPCI_VAL,VCI_VAL,VPAS_VAL) } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CN_S1_ATMTD(ATMTD_VAL: ATMTrafficDescriptor;VPCI_VAL, VCI_VAL: VCI_VPCI_value; VPAS_VAL: VPAS_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for CONNECT messages
Constraint Value	
<pre> iEs_CONNECT {   connectionIdentifier  CI_S1(VPCI_VAL,VCI_VAL,VPAS_VAL),   aTMTrafficDescriptor  ATMTD_VAL } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CN_S1_ABR(ATMTD_VAL: ATMTrafficDescriptor; ABR_VAL: AbrSetupParameters; VPCI_VAL, VCI_VAL: VCI_VPCI_value; VPAS_VAL: VPAS_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for CONNECT messages
Constraint Value	
<pre> iEs_CONNECT {   connectionIdentifier  CI_S1(VPCI_VAL,VCI_VAL,VPAS_VAL),   aTMTrafficDescriptor  ATMTD_VAL,   abrSetupParameters    ABR_VAL } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: CA_R1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for CONNECT ACKNOWLEDGE messages
Constraint Value	
<pre> iEs_CONNECT_ACKNOWLEDGE {   notificationIndicator NI_R IF_PRESENT } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RL_R1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for RELEASE messages
Constraint Value	
<pre> iEs_RELEASE {   causes { cause CAU_R },   notificationIndicator NI_R IF_PRESENT,   progressIndicator     PI_R IF_PRESENT } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RL_S1(CAU_VAL: Cause_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for RELEASE messages
Constraint Value	
<pre>iEs_RELEASE {   causes {     cause CAU_S1(CAU_VAL) -- parametrized cause value   } }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RC_R1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for RELEASE COMPLETE messages
Constraint Value	
<pre>iEs_RELEASE_COMPLETE {   causes {     cause CAU_R IF_PRESENT   } }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RC_R2(CAU_VAL: Cause_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for RELEASE COMPLETE messages
Constraint Value	
<pre>iEs_RELEASE_COMPLETE {   causes {     cause CAU_R1(CAU_VAL)   } }</pre>	
<b>Detailed Comments</b> :	



ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RC_S1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for RELEASE COMPLETE messages, no Cause information element present
Constraint Value	
iEs_RELEASE_COMPLETE { }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RC_S2
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for RELEASE COMPLETE messages, no Cause information element present
Constraint Value	
iEs_RELEASE_COMPLETE { }	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters               ABR_R IF_PRESENT,   broadbandBearerCapability         BBC_R,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber                CDPN_R IF_PRESENT,   calledPartySubaddress            CDPS_R IF_PRESENT,   callingPartyNumber               CGPN_R IF_PRESENT,   callingPartySubaddress           CGPS_R IF_PRESENT,   connectionIdentifier             CI_R3,   endToEndTransitDelay             ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,           -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; exclusive VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R2
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters               ABR_R IF_PRESENT,   broadbandBearerCapability         BBC_R,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber                CDPN_R IF_PRESENT,   calledPartySubaddress            CDPS_R IF_PRESENT,   callingPartyNumber               CGPN_R IF_PRESENT,   callingPartySubaddress           CGPS_R IF_PRESENT,   connectionIdentifier             CI_R2,   endToEndTransitDelay             ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,           -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; any VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R3
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            OMIT,                -- Connection identifier absent   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHL_C_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator           NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,                -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message without Connection identifier information element	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R1_TAG(TAG_OPT_VAL : BITSTRING)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R_TAG(TAG_OPT_VAL),   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            CI_R3,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHL_C_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator           NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,                -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; exclusive VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R2_TAG(TAG_OPT_VAL : BITSTRING)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R_TAG(TAG_OPT_VAL),   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor   MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            CI_R2,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,          -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection         TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; any VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R3_TAG(TAG_OPT_VAL : BITSTRING)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R_TAG(TAG_OPT_VAL),   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor   MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            OMIT,          -- Connection identifier absent   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,          -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection         TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message without Connection identifier information element	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R1_BTC
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R BTC,   broadbandHighLayerInformation   BHLC_R IF_PRESENT,   broadbandLowLayerInformations   (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            CI_R3,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator           NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,          -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection         TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; exclusive VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R2_BTC
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R BTC,   broadbandHighLayerInformation   BHLC_R IF_PRESENT,   broadbandLowLayerInformations   (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            CI_R2,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator           NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,          -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection         TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; any VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R3_BTC
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor              ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters               ABR_R IF_PRESENT,   broadbandBearerCapability         BBC_R BTC,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber                CDPN_R IF_PRESENT,   calledPartySubaddress            CDPS_R IF_PRESENT,   callingPartyNumber               CGPN_R IF_PRESENT,   callingPartySubaddress           CGPS_R IF_PRESENT,   connectionIdentifier             OMIT,                -- Connection identifier absent   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHL_C_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,                -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message without Connection identifier information element	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R1_ABR
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor              ATMTD_R ABR,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters               ABR_R1,   broadbandBearerCapability         BBC_R ABR,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber                CDPN_R IF_PRESENT,   calledPartySubaddress            CDPS_R IF_PRESENT,   callingPartyNumber               CGPN_R IF_PRESENT,   callingPartySubaddress           CGPS_R IF_PRESENT,   connectionIdentifier             CI_R3,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHL_C_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,                -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; exclusive VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R2_ABR
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAaptionLayerParameters          AALP_R IF_PRESENT,   aTMTrafficDescriptor               ATMTD_R,   alternativeATMTrafficDescriptor    A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor    MA_ATMTD_R IF_PRESENT,   abrSetupParameters                ABR_R1,   broadbandBearerCapability          BBC_R_ABR,   broadbandHighLayerInformation      BHLC_R IF_PRESENT,   broadbandLowLayerInformations      (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber                 CDPN_R IF_PRESENT,   calledPartySubaddress              CDPS_R IF_PRESENT,   callingPartyNumber                 CGPN_R IF_PRESENT,   callingPartySubaddress             CGPS_R IF_PRESENT,   connectionIdentifier               CI_R2,   endToEndTransitDelay               ETD_R IF_PRESENT,   narrowbandBearerCapabilities        (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHL_C_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator              NI_R IF_PRESENT,   oAMTrafficDescriptor               OMIT,          -- OAM traffic descriptor absent   progressIndicator                  PI_R IF_PRESENT,   qualityOfServiceParameter          QOS_R,   broadbandSendingComplete           BSC_R IF_PRESENT,   transitNetworkSelection            TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; any VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R3_ABR
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAaptionLayerParameters          AALP_R IF_PRESENT,   aTMTrafficDescriptor               ATMTD_R,   alternativeATMTrafficDescriptor    A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor    MA_ATMTD_R IF_PRESENT,   abrSetupParameters                ABR_R1,   broadbandBearerCapability          BBC_R_ABR,   broadbandHighLayerInformation      BHLC_R IF_PRESENT,   broadbandLowLayerInformations      (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber                 CDPN_R IF_PRESENT,   calledPartySubaddress              CDPS_R IF_PRESENT,   callingPartyNumber                 CGPN_R IF_PRESENT,   callingPartySubaddress             CGPS_R IF_PRESENT,   connectionIdentifier               OMIT,          -- Connection identifier absent   endToEndTransitDelay               ETD_R IF_PRESENT,   narrowbandBearerCapabilities        (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHL_C_R) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator              NI_R IF_PRESENT,   oAMTrafficDescriptor               OMIT,          -- OAM traffic descriptor absent   progressIndicator                  PI_R IF_PRESENT,   qualityOfServiceParameter          QOS_R,   broadbandSendingComplete           BSC_R IF_PRESENT,   transitNetworkSelection            TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message without Connection identifier information element	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R1_ABT
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R_ABT,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            CI_R3,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,          -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; exclusive VCI"	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R2_ABT
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R_ABT,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier            CI_R2,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT,          -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message indicating "exclusive VPCI; any VCI"	



ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R3_ABT
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R IF_PRESENT,   broadbandBearerCapability        BBC_R_ABT,   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier             OMIT, -- Connection identifier absent   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT, -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> : Valid SETUP message without Connection identifier information element	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_R1_SBR(BTC: BTC_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMAAdaptionLayerParameters      AALP_R IF_PRESENT,   aTMTrafficDescriptor             ATMTD_R,   alternativeATMTrafficDescriptor  A_ATMTD_R IF_PRESENT,   acceptableATMTrafficDescriptor  MA_ATMTD_R IF_PRESENT,   abrSetupParameters              ABR_R1,   broadbandBearerCapability        BBC_R_SBR(BTC),   broadbandHighLayerInformation    BHLC_R IF_PRESENT,   broadbandLowLayerInformations    (single_LLI BLLC_R) IF_PRESENT,   calledPartyNumber               CDPN_R IF_PRESENT,   calledPartySubaddress           CDPS_R IF_PRESENT,   callingPartyNumber              CGPN_R IF_PRESENT,   callingPartySubaddress          CGPS_R IF_PRESENT,   connectionIdentifier             CI_R4,   endToEndTransitDelay            ETD_R IF_PRESENT,   narrowbandBearerCapabilities     (single_BC NBC_R) IF_PRESENT,   narrowbandHighLayerCompatibilities (single_HLC NHLR) IF_PRESENT,   narrowbandLowLayerCompatibilities (single_LLC NLLC_R) IF_PRESENT,   notificationIndicator            NI_R IF_PRESENT,   oAMTrafficDescriptor            OMIT, -- OAM traffic descriptor absent   progressIndicator               PI_R IF_PRESENT,   qualityOfServiceParameter       QOS_R,   broadbandSendingComplete        BSC_R IF_PRESENT,   transitNetworkSelection          TNS_R IF_PRESENT } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1( ATMTD_VAL: ATMTrafficDescriptor)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   broadbandBearerCapability BBC_S,   calledPartyNumber         CDPN_PTC1,   connectionIdentifier       CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_PTC( ATMTD_VAL: ATMTrafficDescriptor)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   broadbandBearerCapability BBC_S,   calledPartyNumber         CDPN_MTC1,   connectionIdentifier       CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_ABT( ATMTD_VAL: ATMTrafficDescriptor; CDPN_VAL: CalledPartyNumber)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   broadbandBearerCapability BBC_S_ABT,   calledPartyNumber         CDPN_VAL,   connectionIdentifier       CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_ABR( ATMTD_VAL: ATMTrafficDescriptor; ABR_VAL:AbrSetupParameters; CDPN_VAL:CalledPartyNumber)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   abrSetupParameters        ABR_VAL,   broadbandBearerCapability  BBC_S_ABR,   calledPartyNumber          CDPN_VAL,   connectionIdentifier       CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_BTC( ATMTD_VAL: ATMTrafficDescriptor; CDPN_VAL:CalledPartyNumber)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   broadbandBearerCapability  BBC_S_BTC,   calledPartyNumber          CDPN_VAL,   connectionIdentifier       CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_SBR2( ATMTD_VAL: ATMTrafficDescriptor; CDPN_VAL:CalledPartyNumber)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   broadbandBearerCapability  BBC_S_SBR2,   calledPartyNumber          CDPN_VAL,   connectionIdentifier       CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_SBR3( ATMTD_VAL: ATMTrafficDescriptor; CDPN_VAL:CalledPartyNumber)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_VAL,   broadbandBearerCapability BBC_S_SBR3,   calledPartyNumber         CDPN_VAL,   connectionIdentifier      CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SU_S1_BBC_INCOMP
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for SETUP messages
Constraint Value	
<pre> iEs_SETUP {   aTMTrafficDescriptor      ATMTD_S,   broadbandBearerCapability BBC_S_INCOMP,   calledPartyNumber         CDPN_PTC1,   connectionIdentifier      CI_S2,   qualityOfServiceParameter QOS_S,   broadbandSendingComplete  BSC_S } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ST_R1(CAU_VAL: Cause_value; CST_VAL: State_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for STATUS messages
Constraint Value	
<pre> iEs_STATUS {   cause      CAU_R1(CAU_VAL),   callState  CST_R2(CST_VAL) } </pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ST_R2(CAU_VAL: Cause_value)
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for STATUS messages
Constraint Value	
<pre> iEs_STATUS {   cause          CAU_R1(CAU_VAL),   callState      CST_R1          -- any call state value } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: SQ_S1
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Send constraint; used for STATUS ENQUIRY messages.
Constraint Value	
<pre> iEs_STATUS_ENQUIRY { } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: INVALID_R
<b>ASN1 Type</b>	: InformationElements
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Receive constraint; used for invalid messages
Constraint Value	
<pre> iEs_INVALID * </pre>	
<b>Detailed Comments</b>	: Any Octetstring; used to handle invalid messages

ASN.1 PDU Constraint Declaration	
<b>Constraint Name</b>	: SETUP(IEs: InformationElements)
<b>PDU Type</b>	: DSS2_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving SETUP PDUs
Constraint Value	
<pre>{   messageHeader      MSG_HDR_receive_SETUP,   messageLength      ?,   informationElements IEs -- parametrized set of information elements }</pre>	
<b>Detailed Comments</b> :	

ASN.1 PDU Constraint Declaration	
<b>Constraint Name</b>	: Any(FLAG: Flag; CALL_REF: Cr_value)
<b>PDU Type</b>	: DSS2_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving unexpected PDUs in PTC default trees
Constraint Value	
<pre>{   messageHeader      MSG_HDR_receive_any(FLAG,CALL_REF),   messageLength      ?, -- any message length value   informationElements * -- any set of information elements or empty }</pre>	
<b>Detailed Comments</b> :	

ASN.1 PDU Constraint Declaration	
<b>Constraint Name</b>	: Mr(MSG_TYPE: MessageIdentifier; FLAG: Flag; CALL_REF: Cr_value; IEs: InformationElements)
<b>PDU Type</b>	: DSS2_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for receiving PDUs
Constraint Value	
<pre>{   messageHeader      MSG_HDR_receive(MSG_TYPE,FLAG,CALL_REF),   messageLength      ?,   informationElements IEs -- parametrized set of information elements }</pre>	
<b>Detailed Comments</b> :	

ASN.1 PDU Constraint Declaration	
<b>Constraint Name</b>	: Ms(MSG_TYPE: MessageIdentifier; FLAG: Flag; CALL_REF: Cr_value; IEs: InformationElements)
<b>PDU Type</b>	: DSS2_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Constraint for sending PDUs
Constraint Value	
{ messageHeader      MSG_HDR_send(MSG_TYPE,FLAG,CALL_REF), messageLength      CALCULATE_MSG_LENGTH(IEs), informationElements  IEs -- parametrized set of information elements }	
<b>Detailed Comments</b>	:

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_ADDITIONAL		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_ADD_PAR"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_BTC		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_BTC"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_ABR		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_ABR"	
<b>Detailed Comments</b> :		



CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_ABR_NO_OPT		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_ABR_ABR_NO_OPT"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_SBR2		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_SBR2"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_SBR3		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_SBR3"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_ABT		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_ABT"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_TAG1		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITH_TAGGING"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_SETUP_TAG2		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_SETUP_WITHOUT_TAGGING"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : R_SETUP		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the expecting of a SETUP message		
Parameter Name	Parameter Value	Comments
CM_content	"EXPECT_SETUP"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_ALERTING		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of an ALERTING message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_ALERTING"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_CONNECT		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a CONNECT message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_CONNECT"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_CONNECT_TAG		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a CONNECT message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_CONNECT with tagging option"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_CONNECT_TAG_NOT_APPLIED		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a CONNECT message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_CONNECT with tagging option not applied"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_CONNECT_ABR1		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a CONNECT message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_CONNECT_WITH_ABR"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_CONNECT_ABR2		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a CONNECT message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_CONNECT_WITH_ABR, PCR > MCR"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : S_RELEASE		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To trigger the sending of a RELEASE message		
Parameter Name	Parameter Value	Comments
CM_content	"SEND_RELEASE"	
<b>Detailed Comments</b> :		

CM Constraint Declaration		
<b>Constraint Name</b> : STOP_PTC		
<b>CM Type</b> : CP_M		
<b>Derivation Path</b> :		
<b>Comments</b> : To stop the PTC test step		
Parameter Name	Parameter Value	Comments
CM_content	"STOP_PTC"	
<b>Detailed Comments</b> :		

## **IV**

### **Dynamic Part**

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_01\_01**Group** : Originating\_Interface/Sustainable\_Cell\_Rate/**Purpose** : Ensure that the IUT in N0, on receipt of a SETUP message including a compatible ATM traffic descriptor information element (sustainable cell rate parameter set without traffic management options identifier field), sends a CALL PROCEEDING message, and enters N3.**Configuration** : CONFIG1**Default** : INDN\_DEF(F0)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1(ATMTD_S_SUST))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0

**Detailed Comments** : (1) A valid SETUP with compatible ATM TD ie including additional traffic parameter is sent.  
 (2) A valid CALL PROCEEDING message is received.

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_01_02 <b>Group</b> : Originating_Interface/Sustainable_Cell_Rate/ <b>Purpose</b> : Ensure that the IUT, having received the SETUP message including a compatible ATM traffic descriptor information element (sustainable cell rate parameter set without traffic management options identifier field), on receipt a connection indication, sends a CONNECT message (without ATM traffic descriptor information element) and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			(1)
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1(ATMTD_S_SUST))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(3)
6		CPA1!CP_M START TWAIT	S_CONNECT_TAG		(4)
7		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1(-))	(P)	(5)
8		+INDN_CS(N10,F0)			(6)
9		+INDN_PO(F0)			postamble N0
10		?TIMEOUT TWAIT		(I)	no response
11		+INDN_PO(F0)			postamble N0
12		?TIMEOUT TAC		(F)	no response
13		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) The slave component PTC1 is started. (2) A valid SETUP with compatible ATM TD ie including additional traffic parameter is sent. (3) A valid CALL PROCEEDING message is received. (4) This coordination message indicates to the slave component to send a CONNECT message. (5) A CONNECT message is received. The IUT has entered N10. (6) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_02_01 <b>Group</b> : Originating_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message including a compatible ATM traffic descriptor information element (with Tf subfield of traffic management option indicating "tagging requested"), sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		(1)
4		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1(ATMTD_S_T AG(TAG_REQUESTED)))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	state = 3 ?
6		+INDN_CS(N3,F0)			postamble N0
7		+INDN_PO(F0)			no response
8		?TIMEOUT TAC		(F)	postamble N0
9		+INDN_PO(F0)			
<b>Detailed Comments</b> : (1) A valid SETUP with compatible ATM TD ie including additional traffic parameter is sent. (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_02_02 <b>Group</b> : Originating_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N3, having received a SETUP message including a compatible ATM traffic descriptor information element (with Tf subfield of traffic management option indicating "tagging requested"), to indicate the request of tagging is accepted, sends a CONNECT message (with Tf subfield of traffic management option set to "tagging applied") and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			(1)
2		+INDN_PR_N3_TAG			preamble N3
3		CPA1!CP_M START TWAIT	S_CONNECT_TAG		(2)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1(ATMTD_R_T AG(TAG_APPLIED)))	(P)	(3)
5		+INDN_CS(N10,F0)			(4)
6		+INDN_PO(F0)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) The slave component PTC1 is started. (2) This coordination message indicates to the slave component to send a CONNECT message. (3) A CONNECT message is received. The IUT has entered N10. (4) Test step to check that the IUT has entered N10.					



Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_02_03 <b>Group</b> : Originating_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N3, having received a SETUP message including a compatible ATM traffic descriptor information element (with Tf subfield of traffic management option indicating "tagging requested"), to indicate the request of tagging is not accepted, sends a CONNECT message including an ATM traffic descriptor information element (with Tf subfield of traffic management option set to "tagging not applied"), or sends a CONNECT message without ATM traffic descriptor information element and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			(1)
2		+INDN_PR_N3_TAG			preamble N3
3		CPA1!CP_M START TWAIT	S_CONNECT_TAG_NOT_APPLIED		(2)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1(ATMTD_R_T AG(TAG_NOT_APPLIED)))	(P)	(3)
5		+INDN_CS(N10,F0)			(4)
6		+INDN_PO(F0)			postamble N0
7		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1(OMIT))	(P)	(3)
8		+INDN_CS(N10,F0)			(4)
9		+INDN_PO(F0)			postamble N0
10		?TIMEOUT TWAIT		(I)	no response
11		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) The slave component PTC1 is started. (2) This coordination message indicates to the slave component to send a CONNECT message without any ATM TD. (3) A CONNECT message is received. The IUT has entered N10. (4) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_02_04 <b>Group</b> : Originating_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message including a compatible ATM traffic descriptor information element (with Tf subfield of traffic management option indicating "tagging not allowed"), sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		+INDN_PR_N0			preamble N0
4		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1(ATMTD_S_T AG(TAG_NOT_ALLOWED)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with compatible ATM TD ie including additional traffic parameter is sent. (2) A valid CALL PROCEEDING message is received.					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_02\_05**Group** : Originating\_Interface/Management\_Option\_Tagging/

**Purpose** : Ensure that the IUT, having received the SETUP message including a compatible ATM traffic descriptor information element (with Tf subfield of traffic management option indicating "tagging not allowed"), on receipt a connection indication, sends a CONNECT message without ATM traffic descriptor information element and enters N10.

**Configuration** : CONFIG1**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			(1)
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1(ATMTD_S_TAG(TAG_NOT_ALLOWED)))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(3)
6		CPA1!CP_M START TWAIT	S_CONNECT		(4)
7		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1(-))	(P)	(5)
8		+INDN_CS(N10,F0)			(6)
9		+INDN_PO(F0)			postamble N0
10		?TIMEOUT TWAIT		(I)	no response
11		+INDN_PO(F0)			postamble N0
12		?TIMEOUT TAC		(F)	no response
13		+INDN_PO(F0)			postamble N0

**Detailed Comments** :

- (1) The slave component PTC1 is started.
- (2) A valid SETUP with compatible ATM TD ie including additional traffic parameter is sent.
- (3) A valid CALL PROCEEDING message is received.
- (4) This coordination message indicates to the slave component to send a CONNECT message.
- (5) A CONNECT message is received. The IUT has entered N10.
- (6) Test step to check that the IUT has entered N10.

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_03_01 <b>Group</b> : Originating_Interface/Broadband_Bearer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message indicating the ATM transfer capability in a valid broadband bearer capability (i. e. valid combination of the bearer class and the broadband transfer capability values), sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_BTC(ATMTD_S,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with compatible ATM TD ie including additional traffic parameter is sent. (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_04_01 <b>Group</b> : Originating_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting ABR transfer capability ,including a compatible ABR setup parameter information element, and the IUT is able to provide a PCR which at least equals the requested MCR, sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with compatible ABR setup parameter ie is sent. (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_04_02 <b>Group</b> : Originating_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting ABR transfer capability ,including a compatible ABR setup parameter information element (without optional parameters: ICR, TBE, RIF RDF), sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S_UNSP,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with compatible ABR setup parameter ie is sent. (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_04_03 <b>Group</b> : Originating_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting ABR transfer capability, including valid ABR setup parameter and ATM traffic descriptor information elements, and the IUT is not able to provide a PCR greqter or equal to the MCR sends a RELEASE COMPLETE message with the cause value 37 "User cell rate not available" and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S_INCOMP,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C37))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 3 ?
5		+INDN_PO(F0)			postamble N0
6		?TIMEOUT TAC		(F)	no response
7		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with incompatible ABR setup parameter ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_04_04 <b>Group</b> : Originating_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT, having received the SETUP message requesting an ABR transfer capability, and the IUT is able to provide the requested PCR, on receipt a connection indication, sends a CONNECT message (ABR setup parameters and ATM traffic descriptor information elements included) and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			(1)
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S,CDPN_PTC1))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(3)
6		CPA1!CP_M START TWAIT	S_CONNECT_ABR1		(4)
7		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1_ABR(?,?))	(P)	(5)
8		+INDN_CS(N10,F0)			(6)
9		+INDN_PO(F0)			postamble N0
10		?TIMEOUT TWAIT		(I)	no response
11		+INDN_PO(F0)			postamble N0
12		?TIMEOUT TAC		(F)	no response
13		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) The slave component PTC1 is started. (2) A valid SETUP with compatible ABR setup parameter ie is sent. (3) A valid CALL PROCEEDING message is received. (4) This coordination message indicates to the slave component to send a CONNECT message. (5) A CONNECT message is received. The IUT has entered N10. (6) Test step to check that the IUT has entered N10.					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_04\_05**Group** : Originating\_Interface/Available\_Bit\_Rate/

**Purpose** : Ensure that the IUT, having received the SETUP message requesting an ABR transfer capability, and the IUT is not able to provide the requested PCR but able to provide a PCR which at least equals to the MCR, on receipt a connection indication, sends a CONNECT message (ABR setup parameters and adjusted ATM traffic descriptor information elements included) and enters N10.

**Configuration** : CONFIG1**Default** : INDN\_DEF(F0)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			(1)
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S,CDPN_PTC1))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(3)
6		CPA1!CP_M START TWAIT	S_CONNECT_ABR2		(4)
7		L0?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1_ABR(ATMTD_INCOMP,?))	(P)	(5)
8		+INDN_CS(N10,F0)			(6)
9		+INDN_PO(F0)			postamble N0
10		?TIMEOUT TWAIT		(I)	no response
11		+INDN_PO(F0)			postamble N0
12		?TIMEOUT TAC		(F)	no response
13		+INDN_PO(F0)			postamble N0

**Detailed Comments** :

- (1) The slave component PTC1 is started.
- (2) A valid SETUP with compatible ABR setup parameter ie is sent. For this test case, the PIXIT PX\_ATM\_INCOMP\_VALUE has to be set with a PCR lower than in PX\_ATM\_ABR\_VALUE but higher than the MCR.
- (3) A valid CALL PROCEEDING message is received.
- (4) This coordination message indicates to the slave component to send a CONNECT message.
- (5) A CONNECT message is received. The IUT has entered N10.
- (6) Test step to check that the IUT has entered N10.

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_05_01 <b>Group</b> : Originating_Interface/ATM_BlockTransfer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP with ABT-IT transfer capability, including Broadband bearer capability information element ("ABT-IT", "point-to-point"), and with a valid ATM traffic descriptor (including forward and backward RM PCR parameters, not including forward and backward SCR and MBS parameters) sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABT(ATMTD_S_ABT,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with BBC ie parameter ie is sent. PX_BBC_BTC_VALUE has to be set to ABT-DT; PX_ATM_ABT_VALUE has to include forward an backward RM PCR and must not include forward and backward SCR and MBS (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_05_02 <b>Group</b> : Originating_Interface/ATM_BlockTransfer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP with ABT-DT transfer capability, including Broadband bearer capability information element ("ABT-DT", "point-to-point"), and with a valid ATM traffic descriptor (including forward and backward RM PCR parameters, not including forward and backward SCR and MBS parameters) sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABT(ATMTD_S_ABT,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with BBC ie parameter ie is sent. PX_BBC_BTC_VALUE has to be set to ABT-IT; PX_ATM_ABT_VALUE has to include forward an backward RM PCR and must not include forward and backward SCR and MBS (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_05_03 <b>Group</b> : Originating_Interface/ATM_BlockTransfer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP with ABT-IT transfer capability, including Broadband bearer capability information element ("ABT-IT", "point-to-point"), and with a valid ATM traffic descriptor (forward and backward RM PCR, forward and backward SCR and MBS parameters are included) sends a CALL PROCEEDING message and enters N3. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABT(ATMTD_S_ABT,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with BBC ie parameter ie is sent. PX_BBC_BTC_VALUE has to be set to ABT-DT; PX_ATM_ABT_VALUE has to include forward an backward RM PCR and forward and backward SCR and MBS (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_05_04 <b>Group</b> : Originating_Interface/ATM_BlockTransfer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP with ABT-DT transfer capability, including Broadband bearer capability information element ("ABT-DT", "point-to-point"), and with a valid ATM traffic descriptor (forward and backward RM PCR parameters, forward and backward SCR and MBS parameters are not included) sends a CALL PROCEEDING message and enters N3." <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_ABT(ATMTD_S_ABT,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with BBC ie parameter ie is sent. PX_BBC_BTC_VALUE has to be set to ABT-IT; PX_ATM_ABT_VALUE has to include forward an backward RM PCR and forward and backward SCR and MBS (2) A valid CALL PROCEEDING message is received.					



Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_06_01 <b>Group</b> : Originating_Interface/SBR_ATM_Transfer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP with SBR2 transfer capability, including a Broadband bearer capability information element ("SBR2") and with a valid ATM traffic descriptor (including forward and backward PCR (CLP = 0 + 1) and SCR/MBS (CLP = 0) parameters, traffic management options field not present), sends a CALL PROCEEDING message and enters N3". <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_SBR2(ATMT D_S_SBR2,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP is sent. PX_BBC_SBR2_VALUE has to be set to SBR2; PX_ATM_SBR2_VALUE has to include forward and backward PCR (CLP0 + 1) and backward PCR (CLP0), and must not include the traffic management field. (2) A valid CALL PROCEEDING message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_06_02 <b>Group</b> : Originating_Interface/SBR_ATM_Transfer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP with SBR3 transfer capability, including a Broadband bearer capability information element ("SBR3") and with a valid ATM traffic descriptor (including forward and backward PCR (CLP = 0 + 1) and SCR/MBS (CLP = 0) parameters, traffic management options field not present), sends a CALL PROCEEDING message and enters N3". <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_OUT)			Start PTC1
2		+INDN_PR_N0			preamble N0
3		CPA1!CP_M	R_SETUP		
4		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_SBR3(ATMT D_S_SBR3,CDPN_PTC1))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(CPR,F1,CREF,CP_R1)	(P)	(2)
6		+INDN_CS(N3,F0)			state = 3 ?
7		+INDN_PO(F0)			postamble N0
8		?TIMEOUT TAC		(F)	no response
9		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP is sent. PX_BBC_SBR3_VALUE has to be set to SBR3; PX_ATM_SBR3_VALUE has to include forward and backward PCR (CLP0 + 1) and backward PCR (CLP0), and must not include the traffic management field. (2) A valid CALL PROCEEDING message is received.					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_06\_03**Group** : Originating\_Interface/SBR\_ATM\_Transfer\_Capability/**Purpose** : Ensure that the IUT in N0, on receipt of a SETUP with SBR2 transfer capability, when the IUT is not able to provide the SBR2 capability, sends a RELEASE COMPLETE message with cause value 65 "Beare capability not implemented" and remains in N0.**Configuration** : CONFIG0**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_SBR2(ATMT D_INCOMP,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C65))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 3 ?
5		+INDN_PO(F0)			postamble N0
6		?TIMEOUT TAC		(F)	no response
7		+INDN_PO(F0)			postamble N0

**Detailed Comments** : (1) A SETUP with incompatible ATM traffic descriptor is sent.  
 (2) A valid RELEASE COMPLETE message is received.

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_06\_04**Group** : Originating\_Interface/SBR\_ATM\_Transfer\_Capability/**Purpose** : Ensure that the IUT in N0, on receipt of a SETUP with SBR2 transfer capability, when the IUT is not able to provide the SBR2 capability, sends a RELEASE COMPLETE message with cause value 65 "Beare capability not implemented" and remains in N0.**Configuration** : CONFIG0**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_SBR3(ATMT D_INCOMP,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C65))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 3 ?
5		+INDN_PO(F0)			postamble N0
6		?TIMEOUT TAC		(F)	no response
7		+INDN_PO(F0)			postamble N0

**Detailed Comments** : (1) A SETUP with incompatible ATM traffic descriptor is sent.  
 (2) A valid RELEASE COMPLETE message is received.

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_01 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message including a incompatible ATM traffic descriptor information element (Combination of traffic parameters not allowed, with IE instruction field flag set to "not significant"), sends a RELEASE COMPLETE message with a cause value 100 "invalid information element contents", and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1(ATMTD_INC OMP))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C100))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with incompatible ATM TD ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_02 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message indicating the ATM transfer capability including a not supported broadband bearer capability (i. e. a not supported combination of the bearer class and the broadband transfer capability values), sends a RELEASE COMPLETE message with a cause value 65 "bearer capability not supported", and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_BBC_INCOM P)		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C65))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with not supported BBC ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_03 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message indicating a valid broadband bearer capability and valid ATM traffic descriptor information element, the combination of the two is valid but not supported by the IUT, sends a RELEASE COMPLETE message with a cause value 73 "Unsupported combination of traffic parameters" and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_BBC_INCOMP)		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C73))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with incompatible ATM TD ie is sent. PX_BBC_INCOMP_VALUE has to be set to a value that is valid but the combination with PX_ATM_COMP_VALUE is incompatible. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_04 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting ABR transfer capability, but including an invalid ATM traffic descriptor information element (with IE instruction field flag set to "not significant"), sends a RELEASE COMPLETE message with a cause value 100 "invalid information element contents" and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_INVALID,ABR_S,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C100))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with invalid ATM TD ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_05 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting ABR transfer capability, but including an invalid ABR setup parameter information element (with IE instruction field flag set to "not significant"), sends a RELEASE COMPLETE message with a cause value 100 "invalid information element contents" and remains in N0. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S,ABR_S_INV,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C100))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with incompatible ATM TD ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_06 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting ABT transfer capability, but including an invalid ATM traffic descriptor information element (with IE instruction field flag set to "not significant"), sends a RELEASE COMPLETE message with a cause value 100 "invalid information element contents" and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1(ATMTD_S_I NVALID))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C100))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with invalid ATM TD ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_07 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting SBR2 transfer capability, but including an invalid ATM traffic descriptor information element (with IE instruction field flag set to "not significant"), sends a RELEASE COMPLETE message with a cause value 100 "invalid information element contents" and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_SBR2(ATMT D_S_INVALID,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C100))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with invalid ATM TD ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_07_08 <b>Group</b> : Originating_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N0, on receipt of a SETUP message requesting SBR2 transfer capability, but including an invalid ATM traffic descriptor information element (with IE instruction field flag set to "not significant"), sends a RELEASE COMPLETE message with a cause value 100 "invalid information element contents" and remains in N0. <b>Configuration</b> : CONFIG0 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N0
2		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(SU,F0,CREF,SU_S1_SBR3(ATMT D_S_INVALID,CDPN_PTC1))		(1)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,F1,CREF,RC_R2(C100))	(P)	(2)
4		+INDN_CS(N0,F0)			state = 0 ?
5		?TIMEOUT TAC		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) A valid SETUP with invalid ATM TD ie is sent. (2) A valid RELEASE COMPLETE message is received.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_08_01 <b>Group</b> : Destination_Interface/Sustainable_Cell_Rate/ <b>Purpose</b> : Ensure that the IUT in N0, to indicate the arrival of a call with additional traffic parameter selection, sends a SETUP message with the ATM traffic descriptor information element (including sustainable cell rate parameter set) and enters N6. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			(1)
2		+INDN_PR_N6_ADD			preamble N6
3		+INDN_CS(N6,F1)			state = 6 ?
4		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) The slave component is started.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_08_02 <b>Group</b> : Destination_Interface/Sustainable_Cell_Rate/ <b>Purpose</b> : Ensure that the IUT, having sent a SETUP message with the ATM traffic descriptor information element including sustainable cell rate parameter set), on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			(1)
2		+INDN_PR_N6_ADD			preamble N6
3		L0!DSS2_PDU START TAC	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(2)
4		L0?DSS2_PDU CANCEL TAC	Mr(CA,F0,CREF,CA_R1)	(P)	(3)
5		+INDN_CS(N10,F1)			state = 10 ?
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) The slave component is started. (2) A valid CONNECT message with ATM td is sent. (3) A CONNECT ACKNOWLEDGE message is sent by the IUT.					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_09\_01**Group** : Destination\_Interface/Management\_Option\_Tagging/

**Purpose** : Ensure that the IUT in N0, to indicate the arrival of a call and tagging option supported,  
 sends a SETUP message with the ATM traffic descriptor information element (including the traffic management option field with Tb subfield "tagging supported") and enters N6.

**Configuration** : CONFIG1**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			(1)
2		+INDN_PR_N6_TAG(TRUE)			preamble N6
3		+INDN_CS(N6,F1)			state = 6 ?
4		+INDN_PO(F1)			postamble N0

**Detailed Comments** : (1) The slave component is started.

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_09\_02**Group** : Destination\_Interface/Management\_Option\_Tagging/

**Purpose** : Ensure that the IUT in N0, to indicate the arrival of a call and tagging option not supported,  
 sends a SETUP message with the ATM traffic descriptor information element (including the traffic management option field with Tb subfield "tagging not supported") and enters N6.

**Configuration** : CONFIG1**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_TAG(FALSE)			preamble N9
3		+INDN_CS(N6,F1)			state = 6 ?
4		+INDN_PO(F1)			postamble N0

**Detailed Comments** : (1) The slave component is started.



Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_03 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N6 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported"), on receipt of a CONNECT message including a compatible ATM traffic descriptor information element (with Tb subfield of traffic management option indicating "tagging requested"), sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_04 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N6 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported"), on receipt of a CONNECT message including a compatible ATM traffic descriptor information element (with Tb subfield of traffic management option indicating "tagging not allowed"), sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_NOT_ALLOWED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_05 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N6 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported") on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10.  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_TAG(TRUE)			preamble N9
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_06 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N9 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported"), on receipt of a CONNECT message including a compatible ATM traffic descriptor information element (with Tb subfield of traffic management option indicating "tagging requested"), sends a CONNECT ACKNOWLEDGE message and enters N10.  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N9_TAG(TRUE)			preamble N9
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_07 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N9 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported"), on receipt of a CONNECT message including a compatible ATM traffic descriptor information element (with Tb subfield of traffic management option indicating "tagging not allowed"), sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F0) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N9_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_NOT_ALLOWED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_08 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N9 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported") on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N9_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_09 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N7 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported"), on receipt of a CONNECT message including a compatible ATM traffic descriptor information element (with Tb subfield of traffic management option indicating "tagging requested"), sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N7_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_10 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N7 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported"), on receipt of a CONNECT message including a compatible ATM traffic descriptor information element (with Tb subfield of traffic management option indicating "tagging not allowed"), sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N7_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_NOT_ALLOWED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_11 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N7 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information indicating "tagging supported") on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10.  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE (PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N7_TAG(TRUE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_12 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N6 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information "tagging not supported") on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10.  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE (PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_TAG(FALSE)			preamble N6
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_13 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N9 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information "tagging not supported") on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10.  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N9_TAG(FALSE)			preamble N9
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_09_14 <b>Group</b> : Destination_Interface/Management_Option_Tagging/ <b>Purpose</b> : Ensure that the IUT in N7 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information "tagging not supported") on receipt of a CONNECT message without ATM traffic descriptor information element, sends a CONNECT ACKNOWLEDGE message and enters N10."  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N7_TAG(FALSE)			preamble N7
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_10_01 <b>Group</b> : Destination_Interface/Broadband_Bearer_Capability/ <b>Purpose</b> : Ensure that the IUT in N0, to indicate the arrival of a call including ATM transfer capability information, sends a SETUP message with a valid Broadband bearer capability information element (broadband transfer capability field present) and enters N6. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_BTC			preamble N6
3		+INDN_CS(N6,F1)			state = 6 ?
4		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_11_01 <b>Group</b> : Destination_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT in N0, to indicate the arrival of a call with ABR transfer capability, sends a SETUP message with a corresponding Broadband bearer capability information element ( "ABR", "point-to-point"), with a valid ABR setup parameter information element and a valid ATM traffic descriptor information element and enters N6. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_ABR			preamble N6
3		+INDN_CS(N6,F1)			state = 6 ?
4		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_11_02 <b>Group</b> : Destination_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT in N0, to indicate the arrival of a call with ABR transfer capability (without specification of optional parameter in ABR setup parameter information element : ICR, TBE, RIF RDF), sends a SETUP message with a corresponding Broadband bearer capability information element ( "ABR", "point-to-point"), default value for ABR setup parameter information element, and a valid ATM traffic descriptor information element and enters N6. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_ABR_NO_OPT			preamble N6
3		+INDN_CS(N6,F1)			state = 6 ?
4		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_11_03 <b>Group</b> : Destination_Interface/Available_Bit_Rate/ <b>Purpose</b> : Ensure that the IUT in N6, (having sent a SETUP message requesting ABR transfer capability), on receipt of a compatible CONNECT message (including ABR setup parameter information element, ATM traffic descriptor information element) sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_ABR			preamble N6
3		L0!DSS2_PDU START T313	Ms(CN,F1,CREF,CN_S1_ABR(ATMTD_S_ABR,ABR_S,VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL T313	Mr(CA,F0,CREF,CA_R1)	(P)	(2)
5		+INDN_CS(N10,F1)			(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT T313		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A valid CONNECT message is sent to the IUT. (2) A valid CONNECT ACKNOWLEDGE is received from the IUT. (3) Test step to check that the IUT has entered N10.					



Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_12_01					
<b>Group</b> : Destination_Interface/ATM_BlockTransfer_Capability/					
<b>Purpose</b> : Ensure that the IUT in N0, to indicate the arrival of a call with ABT-IT transfer capability, sends a SETUP message with a corresponding Broadband bearer capability information element ( "ABT-IT", "point-to-point"), and with a valid ATM traffic descriptor (including forward and backward RM PCR parameters) and enters N6.					
<b>Configuration</b> : CONFIG1					
<b>Default</b> : INDN_DEF(F1)					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started preamble N6 state = 6 ? postamble N0
2		+INDN_PR_N6_ABT			
3		+INDN_CS(N6,F1)			
4		+INDN_PO(F1)			
<b>Detailed Comments</b> :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_12_02					
<b>Group</b> : Destination_Interface/ATM_BlockTransfer_Capability/					
<b>Purpose</b> : Ensure that the IUT in N0, to indicate the arrival of a call with ABT-DT transfer capability, 					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_13\_01  
**Group** : Destination\_Interface/SBR\_ATM\_Transfer\_Capability/  
**Purpose** : Ensure that the IUT in N0, to indicate the arrival of a call with SBR2 transfer capability, sends a SETUP message with a corresponding Broadband bearer capability information element ("SBR2"), and with a valid ATM traffic descriptor (including forward and backward PCR (CLP = 0 + 1) and SCR/MBS (CLP = 0) parameters, traffic management options field not present) and enters N6.  
**Configuration** : CONFIG1  
**Default** : INDN\_DEF(F1)  
**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		CPA1!CP_M START TWAIT	S_SETUP_SBR2		(1)
3		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,for_SCR_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,back_SCR_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,for_MBS_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,back_MBS_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,for_PCR_CLP01)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,back_PCR_CLP01))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	SETUP(SU_R1_SBR(SBR2))	(P)	(2)
4		+INDN_CS(N6,F1)			state = 6 ?
5		+INDN_PO(F1)			postamble N0
6		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
7		+INDN_PO(F1)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+END_PTC1			(6)

**Detailed Comments** : (1) A coordination message is sent to indicate the PTC to send a SBR2 SETUP message.  
(2) A valid SETUP message is received. The IUT has entered N6.  
(3) An invalid SETUP message is received.

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_13\_02

**Group** : Destination\_Interface/SBR\_ATM\_Transfer\_Capability/

<b>Purpose</b>	: Ensure that the IUT in N0, to indicate the arrival of a call with SBR3 transfer capability, sends a SETUP message with a corresponding Broadband bearer capability information element ("SBR3"), and with a valid ATM traffic descriptor (including forward and backward PCR (CLP = 0 + 1) and SCR/MBS (CLP = 0) parameters, traffic management options field not present) and enters N6.
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**Configuration** : CONFIG1

**Default** : INDN\_DEF ( F1 )

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		CPA1!CP_M START TWAIT	S_SETUP_SBR3		(1)
3		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.atMTrafficDescriptor.contents,for_SCR_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.atMTrafficDescriptor.contents,back_SCR_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.atMTrafficDescriptor.contents,for_MBS_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.atMTrafficDescriptor.contents,back_MBS_CLP0)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.atMTrafficDescriptor.contents,for_PCR_CLP01)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.atMTrafficDescriptor.contents,back_PCR_CLP01))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	SETUP(SU_R1_SBR(SBR3))	(P)	(2)
4		+INDN_CS(N6,F1)			state = 6 ?
5		+INDN_PO(F1)			postamble N0
6		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
7		+INDN_PO(F1)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+END_PTC1			(6)

**Detailed Comments :** (1) A coordination message is sent to indicate the PTC to send a SBR3 SETUP message.  
(2) A valid SETUP message is received. The IUT has entered N6.  
(3) An invalid SETUP message is received.

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_14r01 <b>Group</b> : Destination_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N6, (having sent a SETUP message requesting ABR transfer capability), on receipt of a incomplete CONNECT message (not including ABR setup parameter information element) sends a STATUS message with a cause value 96 "mandatory information element missing" and remains in N6. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_ABR			preamble N6
3		L0!DSS2_PDU START TAC	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S,VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL TAC	Mr(ST,F0,CREF,ST_R2(C96))	(P)	(2)
5		+INDN_CS(N6,F1)			(4)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TAC		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A invalid CONNECT message (without ABR Setup par ie) is sent to the IUT. (2) A valid STATUS is received from the IUT (3) Test step to check that the IUT has entered N6.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_14_02 <b>Group</b> : Destination_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N6, (having sent a SETUP message requesting ABR transfer capability), on receipt of a incomplete CONNECT message (not including ATM traffic descriptor information element) sends a STATUS message with a cause value 96 "mandatory information element missing" and remains in N6. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_ABR			preamble N6
3		L0!DSS2_PDU START TAC	Ms(CN,F1,CREF,CN_S1(VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU CANCEL TAC	Mr(ST,F0,CREF,ST_R2(C96))	(P)	(2)
5		+INDN_CS(N6,F1)			(4)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TAC		(F)	no response
8		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A invalid CONNECT message (without ATM TD ie) is sent to the IUT. (2) A valid STATUS is received from the IUT (3) Test step to check that the IUT has entered N6.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_14_03 <b>Group</b> : Destination_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N6 (having sent a SETUP message with the ATM traffic descriptor information element including sustainable cell rate parameter set without the traffic management options field), on receipt of a CONNECT message including an ATM traffic descriptor information element, ignores the wrong information element (resulting in the sending of a CONNECT message without ATM traffic descriptor information element to the originating side), optionally sends a STATUS message (cause value = 99, call state = 8 or 10 dependant on the order of transmission), sends a CONNECT ACKNOWLEDGE message and enters N10. <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_ADD			preamble N6
3		L0!DSS2_PDU (STATUS_EXPECTED := TRUE, CAUV := C99) START TAC	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU (STATUS_EXPECTED := FALSE)	Mr(ST,F0,CREF,ST_R1(C99,N8))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CA,F0,CREF,CA_R1)	(P)	(3)
6		+INDN_CS(N10,F1)			(4)
7		?TIMEOUT TAC		(F)	no response
8		+INDN_PO(F1)			postamble N0
9		L0?DSS2_PDU CANCEL TAC	Mr(CA,F1,CREF,CA_R1)	(P)	(3)
10		+INDN_CS(N10,F1)			(4)
11		?TIMEOUT TAC		(F)	no response
12		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A CONNECT message with ATM td is sent. The test case variables CAUV and STATUS_EXPECTED are initialized. If the STATUS message is not received in the test body but in a test step following the execution of the test body, the values are used to filter this STATUS message without assigning a verdict. (2) A STATUS message is received. The value of STATUS_EXPECTED is reset. (3) A CONNECT ACKNOWLEDGE message is received. (4) Test step to check that the IUT has entered U10.					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_14\_04  
**Group** : Destination\_Interface/Error\_Condition/  
**Purpose** : Ensure that the IUT in N6 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information "tagging not supported") on receipt of a CONNECT message with ATM traffic descriptor information element, ignores the wrong information element (resulting in the sending of a CONNECT message without ATM traffic descriptor information element to the originating side), optionally sends a STATUS message (cause value = 99, call state = 8 or 10 dependant on the order of transmission), sends a CONNECT ACKNOWLEDGE message and enters N10.  
**Configuration** : CONFIG1  
**Default** : INDN\_DEF(F1)  
**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N6_TAG(FALSE)			preamble N6
3		L0!DSS2_PDU (STATUS_EXPECTED := TRUE, CAUV := C99) START TAC	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU (STATUS_EXPECTED := FALSE)	Mr(ST,F0,CREF,ST_R1(C99,N8))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CA,F0,CREF,CA_R1)	(P)	(3)
6		+INDN_CS(N10,F1)			(4)
7		?TIMEOUT TAC		(F)	no response
8		+INDN_PO(F1)			postamble N0
9		L0?DSS2_PDU CANCEL TAC	Mr(CA,F1,CREF,CA_R1)	(P)	(3)
10		+INDN_CS(N10,F1)			(4)
11		?TIMEOUT TAC		(F)	no response
12		+INDN_PO(F1)			postamble N0

**Detailed Comments** : (1) A CONNECT message with ATM td is sent. The test case variables CAUV and STATUS\_EXPECTED are initialized. If the STATUS message is not received in the test body but in a test step following the execution of the test body, the values are used to filter this STATUS message without assigning a verdict.  
(2) A STATUS message is received. The value of STATUS\_EXPECTED is reset.  
(3) A CONNECT ACKNOWLEDGE message is received.  
(4) Test step to check that the IUT has entered U10.

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : INDN_14_05 <b>Group</b> : Destination_Interface/Error_Condition/ <b>Purpose</b> : Ensure that the IUT in N7 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information "tagging not supported") on receipt of a CONNECT message with ATM traffic descriptor information element, ignores the wrong information element (resulting in the sending of a CONNECT message without ATM traffic descriptor information element to the originating side), optionally sends a STATUS message (cause value = 99, call state = 8 or 10 dependant on the order of transmission), sends a CONNECT ACKNOWLEDGE message and enters N10.  <b>Configuration</b> : CONFIG1 <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N7_TAG(FALSE)			preamble N7
3		L0!DSS2_PDU (STATUS_EXPECTED := TRUE, CAUV := C99) START TAC	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU (STATUS_EXPECTED := FALSE)	Mr(ST,F0,CREF,ST_R1(C99,N8))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CA,F0,CREF,CA_R1)	(P)	(3)
6		+INDN_CS(N10,F1)			(4)
7		?TIMEOUT TAC		(F)	no response
8		+INDN_PO(F1)			postamble N0
9		L0?DSS2_PDU CANCEL TAC	Mr(CA,F1,CREF,CA_R1)	(P)	(3)
10		+INDN_CS(N10,F1)			(4)
11		?TIMEOUT TAC		(F)	no response
12		+INDN_PO(F1)			postamble N0
<b>Detailed Comments</b> : (1) A CONNECT message with ATM td is sent. The test case variables CAUV and STATUS_EXPECTED are initialized. If the STATUS message is not received in the test body but in a test step following the execution of the test body, the values are used to filter this STATUS message without assigning a verdict. (2) A STATUS message is received. The value of STATUS_EXPECTED is reset. (3) A CONNECT ACKNOWLEDGE message is received. (4) Test step to check that the IUT has entered U10.					

## Test Case Dynamic Behaviour

**Test Case Name** : INDN\_14\_06  
**Group** : Destination\_Interface/Error\_Condition/  
**Purpose** : Ensure that the IUT in N9 (having sent a SETUP message with the ATM traffic descriptor information element including backward tagging information "tagging not supported") on receipt of a CONNECT message with ATM traffic descriptor information element, ignores the wrong information element (resulting in the sending of a CONNECT message without ATM traffic descriptor information element to the originating side), optionally sends a STATUS message (cause value = 99, call state = 8 or 10 dependant on the order of transmission), sends a CONNECT ACKNOWLEDGE message and enters N10.  
**Configuration** : CONFIG1  
**Default** : INDN\_DEF(F1)  
**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1:PTC1_IN)			PTC1 is started
2		+INDN_PR_N9_TAG(FALSE)			preamble N9
3		L0!DSS2_PDU (STATUS_EXPECTED := TRUE, CAUV := C99) START TAC	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI,VCI,VPAS))		(1)
4		L0?DSS2_PDU (STATUS_EXPECTED := FALSE)	Mr(ST,F0,CREF,ST_R1(C99,N8))		(2)
5		L0?DSS2_PDU CANCEL TAC	Mr(CA,F0,CREF,CA_R1)	(P)	(3)
6		+INDN_CS(N10,F1)			(4)
7		?TIMEOUT TAC		(F)	no response
8		+INDN_PO(F1)			postamble N0
9		L0?DSS2_PDU CANCEL TAC	Mr(CA,F1,CREF,CA_R1)	(P)	(3)
10		+INDN_CS(N10,F1)			(4)
11		?TIMEOUT TAC		(F)	no response
12		+INDN_PO(F1)			postamble N0

**Detailed Comments** : (1) A CONNECT message with ATM td is sent. The test case variables CAUV and STATUS\_EXPECTED are initialized. If the STATUS message is not received in the test body but in a test step following the execution of the test body, the values are used to filter this STATUS message without assigning a verdict.  
(2) A STATUS message is received. The value of STATUS\_EXPECTED is reset.  
(3) A CONNECT ACKNOWLEDGE message is received.  
(4) Test step to check that the IUT has entered U10.



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N0					
<b>Group</b> : MTC_Steps/					
<b>Objective</b> : Preamble to the Null call state N00.					
<b>Default</b> :					
<b>Comments</b> : Empty preamble to be completed by test laboratory.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ESTABLISH_UNDERLYING_LAYERS()]		(P)	(1)
2		(CREF := RANDOM_CREF())			
3		[NOT ESTABLISH_UNDERLYING_LAYERS()]		I	
<b>Detailed Comments</b> : The AAL connection of the IUT at the access related to the MTC has to be established before the execution of a test case. The procedures to do so are out of the scope of EN 301 067-1. The test suite operation in this preamble has to be replaced by TTCN code that describes the procedures to establish and/or maintain the underlying layers. The definition of that code has to be agreed between the test laboratory and the IUT provider. (1) Random values to be used for the call reference..					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N3_TAG <b>Group</b> : MTC_Steps/ <b>Objective</b> : Preamble to the Outgoing Call Proceeding link state N3. <b>Default</b> : INDN_DEF(F0) <b>Comments</b> : use with PTC1_OUT					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N0			preamble N00
2		CPA1!CP_M	R_SETUP		(1)
3		L0!DSS2_PDU START T303	Ms(SU,F0,CREF,SU_S1(ATMTD_S_T AG(TAG_SUPORTED)))		(2)
4		L0?DSS2_PDU CANCEL T303	Mr(CPR,F1,CREF,CP_R1)	(P)	(3)
5		?TIMEOUT T303		(F)	no response
6		+INDN_PO(F0)			postamble N0
<b>Detailed Comments</b> : (1) This coordination message indicates to the slave component to expect a SETUP message. (2) A valid SETUP message with the sending complete information element is sent towards the first slave remote user located at PTC1. (3) A CALL PROCEEDING message is received. The IUT has entered N3.					

## Test Step Dynamic Behaviour

**Test Step Name** : INDN\_PR\_N6\_ADD**Group** : MTC\_Steps/**Objective** : Preamble to the Call Initiated link state N6 with aldditionnal parameter ATM .**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPA1!CP_M START TWAIT	S_SETUP_ADDITIONAL		(1)
2		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,SUSTAINABLE_D)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,MAX_BURST_D))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value, VCI := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vp_assoc_signalling) CANCEL TWAIT	SETUP(SU_R1)	(P)	(2)
3		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,SUSTAINABLE_D)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,MAX_BURST_D))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vp_assoc_signalling) CANCEL TWAIT	SETUP(SU_R2)	(P)	(2)
4		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,SUSTAINABLE_D)) AND (SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,MAX_BURST_D))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3)	(P)	(2)
5		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+END_PTC1			(6)

**Detailed Comments** : (1) A coordination message is sent to indicate the PTC to send a SETUP including Additional parameter .  
 (2) A valid SETUP message is received. The IUT has entered N6.  
 (3) An invalid SETUP message is received.

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N6_ABT <b>Group</b> : MTC_Steps/ <b>Objective</b> : Preamble to the Call Initiated link state N6 with aldditionnal parameter ATM with aldditionnal parameter ATM including broadband transfer capability in BBC IE set to ABT-DT or ABT-IT and including RM parameters in ATM traffic descriptor IE.. <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPA1!CP_M START TWAIT	S_SETUP_ABT		(1)
2		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,RMpcr_D))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value, VCI := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vp_assoc_signalling) CANCEL TWAIT	SETUP(SU_R1_ABT)	(P)	(2)
3		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,RMpcr_D))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_SETUP.connectionIdentifier.vp_assoc_signalling) CANCEL TWAIT	SETUP(SU_R2_ABT)	(P)	(2)
4		L0?DSS2_PDU [(SEARCH_DESCRIPTOR(DSS2_PDU.informationElements.iEs_SETUP.aTMTrafficDescriptor.contents,RMpcr_D))] (CREF := DSS2_PDU.messageHeader.callReference.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3_ABT)	(P)	(2)
5		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+END_PTC1			(6)
<b>Detailed Comments</b> : (1) A coordination message is sent to indicate the PTC to send a SETUP including Additional parameter . (2) A valid SETUP message is received. The IUT has entered N6. (3) An invalid SETUP message is received.					

## Test Step Dynamic Behaviour

**Test Step Name** : INDN\_PR\_N6\_BTC**Group** : MTC\_Steps/**Objective** : Preamble to the Call Initiated link state N6 with aldditionnal parameter ATM including broadband transfer capability in BBC IE. .**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPA1!CP_M START TWAIT	S_SETUP_BTC		(1)
2		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R1_BTC)	(P)	(2)
3		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R2_BTC)	(P)	(2)
4		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3_BTC)	(P)	(2)
5		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+END_PTC1			(6)

**Detailed Comments** : (1) A coordination message is sent to indicate the PTC to send a SETUP including Additional parameter .  
 (2) A valid SETUP message is received. The IUT has entered N6.  
 (3) An invalid SETUP message is received.

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N6_ABR <b>Group</b> : MTC_Steps/ <b>Objective</b> : Preamble to the Call Initiated link state N6 with aldditionnal parameter ATM including broadband transfer capability in BBC IE set to ABR and including ABR SETUP parameter IE. <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPA1!CP_M START TWAIT	S_SETUP_ABR		(1)
2		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R1_ABR)	(P)	(2)
3		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R2_ABR)	(P)	(2)
4		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3_ABR)	(P)	(2)
5		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+END_PTC1			(6)
<b>Detailed Comments</b> : (1) A coordination message is sent to indicate the PTC to send a SETUP including Additional parameter . (2) A valid SETUP message is received. The IUT has entered N6. (3) An invalid SETUP message is received.					

## Test Step Dynamic Behaviour

**Test Step Name** : INDN\_PR\_N6\_ABR\_NO\_OPT**Group** : MTC\_Steps/**Objective** : Preamble to the Call Initiated link state N6 with aldditionnal parameter ATM including broadband transfer capability in BBC IE set to ABR and including ABR SETUP parameter IE.**Default** : INDN\_DEF(F1)**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPA1!CP_M START TWAIT	S_SETUP_ABR_NO_OPT		(1)
2		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R1_ABR)	(P)	(2)
3		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R2_ABR)	(P)	(2)
4		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3_ABR)	(P)	(2)
5		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
6		+INDN_PO(F1)			postamble N0
7		?TIMEOUT TWAIT		(I)	no response
8		+END_PTC1			(6)

**Detailed Comments** : (1) A coordination message is sent to indicate the PTC to send a SETUP including Additional parameter .  
 (2) A valid SETUP message is received. The IUT has entered N6.  
 (3) An invalid SETUP message is received.

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N6_TAG(SUPPORT: BOOLEAN) <b>Group</b> : MTC_Steps/ <b>Objective</b> : Preamble to the Call Initiated link state N6 with aldditionnal parameter ATM including TAGGING option. <b>Default</b> : INDN_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[SUPPORT]			
2		CPA1!CP_M START TWAIT	S_SETUP_TAG1		(1)
3		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value, VCI := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vp_ass oc_signalling) CANCEL TWAIT	SETUP(SU_R1_TAG('0000001?'B))	(P)	(2)
4		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vp_ass oc_signalling) CANCEL TWAIT	SETUP(SU_R2_TAG('0000001?'B))	(P)	(2)
5		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3_TAG('0000001?'B))	(P)	(2)
6		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
7		+INDN_PO(F1)			postamble N0
8		?TIMEOUT TWAIT		I	no response
9		[NOT SUPPORT]			
10		CPA1!CP_M START TWAIT	S_SETUP_TAG2		(1)
11		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value, VCI := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vp_ass oc_signalling) CANCEL TWAIT	SETUP(SU_R1_TAG('0000000?'B))	(P)	(2)
12		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_ SETUP.connectionIdentifier.vp_ass oc_signalling) CANCEL TWAIT	SETUP(SU_R2_TAG('0000000?'B))	(P)	(2)
13		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3_TAG('0000000?'B))	(P)	(2)
14		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callRefere nce.cr_value) CANCEL TWAIT	SETUP(INVALID_R)	(F)	(3)
15		+INDN_PO(F1)			postamble N0

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16		?TIMEOUT TWAIT		I	no response
<b>Detailed Comments</b> : (1) A coordination message is sent to indicate the PTC to send a SETUP including Additional parameter . (2) A valid SETUP message is received. The IUT has entered U1. (3) An invalid SETUP message is received.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N7_TAG(SUPPORT: BOOLEAN) <b>Group</b> : MTC_Steps/ <b>Objective</b> : Preamble to the Incoming Call Proceeding link state N7 with aldditionnal parameter ATM including TAGGING option.. <b>Default</b> : INDN_DEF(F1) <b>Comments</b> : use with PTC1_IN					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N6_TAG(SUPPORT)			preamble to N6
2		L0!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1(VPCI,VCI,VPAS))		(1)
3		L0!DSS2_PDU	Ms(AL,F1,CREF,AL_S1(VPCI,VCI,VPAS))		(2)
<b>Detailed Comments</b> : (1) A valid CALL PROCEEDING message is sent. (2) A valid ALERTING message is sent.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_PR_N9_TAG(SUPPORT: BOOLEAN) <b>Group</b> : MTC_Steps/ <b>Objective</b> : Preamble to the Incoming Call Proceeding link state N9 with aldditionnal parameter ATM including TAGGING option.. <b>Default</b> : INDN_DEF(F1) <b>Comments</b> : use with PTC1_IN					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+INDN_PR_N6_TAG(SUPPORT)			preamble to N6
2		L0!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1(VPCI,VCI,VPAS))		(1)
<b>Detailed Comments</b> : (1) A valid CALL PROCEEDING message is sent.					



### Test Step Dynamic Behaviour

**Test Step Name** : INDN\_PO(FL: Flag)

**Group** : MTC\_Steps/

**Objective** : To bring the IUT back to the Null call state N0 and to terminate all active PTCs.

**Default** :

**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0!DSS2_PDU (INV_FL := INVERSE(FL)) START T308	Ms(RL,FL,CREF,RL_S1(C16))		(1)
2		L0?DSS2_PDU CANCEL T308	Mr(RC,INV_FL,CREF,RC_R1)		(2)
3		+SUBTREE_PO			(3)
4		?TIMEOUT T308			no response
5		+SUBTREE_PO			(3)
6		L0?OTHERWISE			(4)
7		+SUBTREE_PO			(3)
		SUBTREE_PO			
8		[PTC_ACTIVATED]			(5)
9		+END_PTC1			(6)
10		[NOT PTC_ACTIVATED]			(7)

**Detailed Comments** :

- (1) A valid RELEASE message indicating the cause value 16 "Normal call clearing" is sent.
- (2) A RELEASE COMPLETE message is received from the IUT.
- (3) Test step to terminate all actions at PTC1 and PTC2, if activated.
- (4) An invalid event occurred.
- (5) PTC(s) had been activated in the test case (default value).
- (6) Test step to terminate all actions at PTC1. The test step assigns the final verdict "R".
- (7) No PTC had been activated in the test case. No further action is required.

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : INDN_CS(ES: State_value; FL: Flag) <b>Group</b> : MTC_Steps/ <b>Objective</b> : To check the link state of the IUT. <b>Default</b> : INDN_DEF(FL) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0!DSS2_PDU (END_FLAG := FALSE, INV_FL := INVERSE(FL)) START T322	Ms(SQ,FL,CREF,SQ_S1)		(1)
2		REPEAT SUBTREE_CS UNTIL [END_FLAG]			(2)
3		[ES = N0]			(3)
4		[PTC_ACTIVATED]			(4)
5		+END_PTC1			(5)
6		[NOT PTC_ACTIVATED]			(6)
7		[ES = N12]			(7)
8		L0!DSS2_PDU	Ms(RC,FL,CREF,RC_S2)		(8)
9		+END_PTC1			(4)
10		[(ES <> N0) AND (ES <> N12)]			
11		+INDN_PO(FL)			postamble N0
		SUBTREE_CS			
12		L0?AAL_REL_IN [(ES= N0) AND PX_L2_RELEASE_N00] CANCEL T322		(P)	(7)
13		(END_FLAG := TRUE)			
14		L0?DSS2_PDU CANCEL T322	Mr(ST,INV_FL,CREF,ST_R1(C30,E S))	(P)	(8)
15		(END_FLAG := TRUE)			
16		?TIMEOUT T322		(F)	no response
17		(END_FLAG := TRUE)			
<b>Detailed Comments</b> : (1) A STATUS ENQUIRY message is sent. (2) The subtree SUBTREE_CS is repeated until a STATUS message indicating the current link state and a valid cause value is received. (3) PTC(s) had been activated in the test case (default value). (4) Test step to terminate all actions at PTC1. The test step assigns the final verdict "R". (5) No PTC had been activated in the test case. No further action is required. (6) A RELEASE COMPLETE message is sent to bring the IUT from N12 to N0. (7) An AAL-RELEASE-INDICATION is received. The IUT has released layer 2 after entering N0. (8) A STATUS message is received indicating the expected link state value and the appropriate cause value 30.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : END_PTC1 <b>Group</b> : MTC_Steps/ <b>Objective</b> : Test step to terminate all actions at PTC1. <b>Default</b> : <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START TWAIT			
2		?DONE(PTC1) CANCEL TWAIT		R	(1)
3		?TIMEOUT TWAIT			no response
4		CPA1!CP_M START TWAIT	STOP_PTC		(2)
5		?DONE(PTC1) CANCEL TWAIT		R	(1)
6		?TIMEOUT TWAIT		R	no response
<b>Detailed Comments</b> : (1) All procedures at PTC1 have finished their activity. (2) This coordination message indicates to PTC1 to terminate all actions.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PTC1_PR					
<b>Group</b> : PTC1_Steps/					
<b>Objective</b> : Preamble to the Null call state N0 for PTC1.					
<b>Default</b> :					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ESTABLISH_UNDERLYING_LAYERS()]			(1)
2		(CREF := RANDOM_CREF())			
3		[NOT ESTABLISH_UNDERLYING_LAYERS()]			
<b>Detailed Comments</b> : The AAL connection of the IUT at the access related to the PTC1 has to be established before the execution of a test case. The procedures to do so are out of the scope of EN 300 443-1 and EN 300 771-1. The test suite operation in this preamble has to be replaced by TTCN code that describes the procedures to establish and/or maintain the underlying layers. The definition of that code has to be agreed between the test laboratory and the IUT provider. (1) Random values to be used for the call reference and the endpoint reference aree assigned. (2) Subtree to avoid identical values for EREF1 and EREF2.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PTC1_PO(FL: Flag) <b>Group</b> : PTC1_Steps/ <b>Objective</b> : To bring the IUT back to the Null call state N00 for PTC1. <b>Default</b> : <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L1!DSS2_PDU (INV_FL := INVERSE(FL)) START T308	Ms(RL,FL,CREF,RL_S1(C16))		(1)
2		L1?DSS2_PDU CANCEL T308	Mr(RC,INV_FL,CREF,RC_R1)		(2)
3		?TIMEOUT T308			no response
4		L1?OTHERWISE			(3)
<b>Detailed Comments</b> : (1) A valid RELEASE message indicating the cause value 16 "Normal call clearing" is sent. (2) A RELEASE COMPLETE message is received from the IUT. (3) An invalid event occurred.					

## Test Step Dynamic Behaviour

**Test Step Name** : PTC1\_IN  
**Group** : PTC1\_Steps/  
**Objective** : Test step to initiate and handle incoming calls (from the MTC's point of view).  
**Default** : PTC1\_DEF(F0)  
**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR			preamble N0
2		REPEAT MAINTREE UNTIL [END_FLAG]			(1)
3		MAINTREE			
4		CPA1?CP_M	S_SETUP		(2)
5		L1!DSS2_PDU	Ms(SU,F0,CREF,SU_S1(ATMTD_S))		
6		CPA1?CP_M	S_SETUP_ADDITIONAL		(2)
7		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_PTC(ATMTD_S_SUST))		
8		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S,CDPN_MTC1))		
9		CPA1?CP_M	S_SETUP_ABR		(2)
10		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S,CDPN_MTC1))		
11		CPA1?CP_M	S_SETUP_ABR_NO_OPT		(2)
12		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1_ABR(ATMTD_S_ABR,ABR_S_NO_OPT,CDPN_MTC1))		
13		CPA1?CP_M	S_SETUP_BTC		(2)
14		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_BTC(ATMTD_S,CDPN_MTC1))		
15		CPA1?CP_M	S_SETUP_TAG1		(2)
16		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1_PTC(ATMTD_S_TAG(TAG_REQUESTED)))		
17		CPA1?CP_M	S_SETUP_TAG2		(2)
18		L0!DSS2_PDU	Ms(SU,F0,CREF,SU_S1_PTC(ATMTD_S_TAG(TAG_NOT_ALLOWED)))		
19		CPA1?CP_M	S_SETUP_SBR2		(2)
20		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_SBR2(ATMTD_S_ABT,CDPN_MTC1))		
21		CPA1?CP_M	S_SETUP_SBR3		(2)
22		L0!DSS2_PDU START TAC	Ms(SU,F0,CREF,SU_S1_SBR3(ATMTD_S_ABT,CDPN_MTC1))		
23		CPA1?CP_M	S_RELEASE		(3)
24		L1!DSS2_PDU	Ms(RL,F0,CREF,RL_S1(C16))		
25		L1?DSS2_PDU	Mr(RL,F1,CREF,RL_R1)		(7)
26		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(RC,F0,CREF,RC_S2)		(8)
27		L1?DSS2_PDU (END_FLAG:=TRUE)	Mr(RC,F1,CREF,RC_R1)		(9)
28		CPA1?CP_M (END_FLAG:=TRUE)	STOP_PTC		(10)
29		+PTC1_PO(F0)			postamble N0

**Detailed Comments** :

- (1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of END\_FLAG is FALSE.
- (2) A coordination message prompting PTC1 to send a SETUP message is received. In the following event lines this SETUP message is sent.
- (3) A coordination message prompting PTC1 to send a RELEASE message is received. In the following event lines this RELEASE message is sent.
- (4) A coordination message prompting PTC1 to perform actions that will cause the sending of a NOTIFY message at the access related to the MTC is received. In the following event line a operation is called. The contents of this operation depends on the IUT.
- (5) An ALERTING message is received.
- (6) This coordination message indicates to the MTC that the ALERTING message has been delivered to PTC1.
- (7) A RELEASE message is received.
- (8) A RELEASE COMPLETE message is sent and the subtree is left.
- (9) A RELEASE COMPLETE message is received and the subtree is left.
- (10) A coordination message prompting PTC1 to stop its activity is received.

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PTC1_OUT <b>Group</b> : PTC1_Steps/ <b>Objective</b> : Test step to initiate and handle outgoing calls (from the MTC's point of view). <b>Default</b> : PTC1_DEF(F1) <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR			preamble N0
2		REPEAT MAINTREE UNTIL [END_FLAG]			(1)
3		MAINTREE			
4		CPA1?CP_M START TWAIT	R_SETUP		(2)
5		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vci, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R1)		(3)
6		L1!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1(VPCI,VCI ,VPAS))		(4)
7		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vpci, VPAS := DSS2_PDU.informationElements.iEs_S ETUP.connectionIdentifier.vp_assoc _signalling) CANCEL TWAIT	SETUP(SU_R2)		(3)
8		L1!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1(VPCI,VCI ,VPAS))		(4)
9		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, VCI := PX_VCI, VPCI := PX_VPCI, VPAS := '01'B) CANCEL TWAIT	SETUP(SU_R3)		(3)
10		L1!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1(VPCI,VCI ,VPAS))		(4)
11		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReferen ce.cr_value, END_FLAG := TRUE) CANCEL TWAIT	SETUP(INVALID_R)		(5)
12		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(RC,F1,CREF,RC_S1)		(6)
13		?TIMEOUT TWAIT			no SETUP
14		(END_FLAG:=TRUE)			
15		CPA1?CP_M	S_ALERTING		(10)
16		L1!DSS2_PDU	Ms(AL,F1,CREF,AL_S1(VPCI,VCI, VPAS))		(11)
17		CPA1?CP_M	S_CONNECT_TAG		(1)
18		L0!DSS2_PDU	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_REQUESTED),VPCI, VCI,VPAS))		(11)
19		CPA1?CP_M	S_CONNECT_TAG_NOT_APPLIED		(1)
20		L0!DSS2_PDU	Ms(CN,F1,CREF,CN_S1_ATMTD(ATM TD_S_TAG(TAG_NOT_APPLIED),VPC I,VCI,VPAS))		(11)
21		CPA1?CP_M	S_CONNECT		(11)
22		L1!DSS2_PDU	Ms(CN,F1,CREF,CN_S1(VPCI,VCI, VPAS))		(11)
23		CPA1?CP_M	S_CONNECT_ABR1		(11)
24		L1!DSS2_PDU	Ms(CN,F1,CREF,CN_S1_ABR(ATMTD _S_ABR,ABR_S,VPCI,VCI,VPAS))		(11)
25		CPA1?CP_M	S_CONNECT_ABR2		(11)

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		L1!DSS2_PDU	Ms(CN,F1,CREF,CN_S1_ABR(ATMTD_INCOMP,ABR_S,VPCI,VCI,VPAS))		
26		CPA1?CP_M	S_RELEASE		(12)
27		L1!DSS2_PDU	Ms(RL,F1,CREF,RL_S1(C16))		
28		L1?DSS2_PDU	Mr(RL,F0,CREF,RL_R1)		(15)
29		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(RC,F1,CREF,RC_S2)		(6)
30		L1?DSS2_PDU (END_FLAG:=TRUE)	Mr(RC,F0,CREF,RC_R1)		(16)
31		CPA1?CP_M (END_FLAG:=TRUE)	STOP_PTC		(17)
32		+PTC1_PO(F1)			postamble N0
<b>Detailed Comments :</b> (1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of END_FLAG is FALSE. (2) A coordination message prompting PTC1 to expect a SETUP message is received. In the following event lines this SETUP message is expected. (3) A valid SETUP message is received. (4) A CALL PRCEEDING message is sent. (5) An invalid SETUP message is received. (6) A RELEASE COMPLETE message is sent and the subtree is left. (7) A coordination message prompting PTC1 to expect a SETUP message and to reject it by sending a RELEASE COMPLETE message. (8) A RELEASE COMPLETE message with the Cause value as received in the coordination message is sent and the subtree is left. (9) A coordination message prompting PTC1 to expect a SETUP message and to ignore it. The IUT will retransmit the SETUP after the first expiry of T303. The retransmitted SETUP will also be ignored. (10) A coordination message prompting PTC1 to send an ALERTING message is received. In the following event lines this ALERTING message is sent. (11) A coordination message prompting PTC1 to send a CONNECT message is received. In the following event lines this CONNECT message is sent. (12) A coordination message prompting PTC1 to send a RELEASE message is received. In the following event lines this RELEASE message is sent. (13) A coordination message prompting PTC1 to send a RELEASE COMPLETE message is received. In the following event lines this RELEASE COMPLETE message is sent. (14) A coordination message prompting PTC1 to perform actions that will cause the sending of a NOTIFY message at the access related to the MTC is received. In the following event line a operation is called. The contents of this operation depends on the IUT. (15) A RELEASE message is received. (16) A RELEASE COMPLETE message is received and the subtree is left. (17) A coordination message prompting PTC1 to stop its activity is received.					

Default Dynamic Behaviour					
<b>Default Name</b> : INDN_DEF(FL: Flag) <b>Group</b> : <b>Objective</b> : Default subtree for all test cases. <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0?AAL_REL_IN		(I)	AAL failure
2		[TRUE]		R	(1)
3		L0?AAL_EST_IN		(I)	AAL reset
4		+RELEASE_CALL(FL)			(2)
5		L0?OTHERWISE		(F)	(3)
6		+RELEASE_CALL(FL)			(2)
		RELEASE_CALL(FL: Flag)			
7		L0!DSS2_PDU (INV_FL := INVERSE(FL)) START T308	Ms(RL,FL,CREF,RL_S1(C1 6))		(4)
8		L0?DSS2_PDU CANCEL T308	Mr(RC,INV_FL,CREF,RC_R 1)		(5)
9		+END_PTC_ACTIONS			(6)
10		?TIMEOUT T308		(F)	no response
11		+END_PTC_ACTIONS			(6)
12		L0?OTHERWISE		(F)	(3)
13		+END_PTC_ACTIONS			(6)
		END_PTC_ACTIONS			
14		[PTC_ACTIVATED]			(7)
15		START TWAIT			
16		?DONE(PTC1) CANCEL TWAIT		R	(8)
17		?TIMEOUT TWAIT			no response
18		CPA1!CP_M START TWAIT	STOP_PTC		(9)
19		?DONE(PTC1) CANCEL TWAIT		R	(8)
20		?TIMEOUT TWAIT		R	no response
21		[NOT PTC_ACTIVATED]		R	(10)
<b>Detailed Comments</b> : (1) This behaviour line is inserted to allow the assignment of a final verdict R. It is mandatory to assign a final verdict to each leaf of a default behaviour tree. (2) Subtree to release the call. (3) An invalid event occurred. (4) A valid RELEASE message with cause #16 is sent. (5) A RELEASE COMPLETE message is received from the IUT. (6) Subtree to terminate all actions at the PTC(s). (7) PTC(s) had been activated in the test case (default value). (8) All procedures at PTC1 have finished their activity. (9) This coordination message indicates to PTC1 to terminate all actions. (10) No PTC had been activated in the test case. No further action is required.					

## Default Dynamic Behaviour

**Default Name** : PTC1\_DEF(FL: Flag)**Group** :**Objective** : Default subtree for PTC1.**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L1?AAL_REL_IN (END_FLAG:=TRUE)			AAL failure
2		L1?AAL_EST_IN			AAL reset
3		+RELEASE_CALL(FL)			(1)
4		L1?DSS2_PDU [FL = '0'B]	Any(F1,CREF)		(2)
5		RETURN			
6		L1?DSS2_PDU [FL = '1'B]	Any(F0,CREF)		(2)
7		RETURN			
8		L1?OTHERWISE			(3)
9		+RELEASE_CALL(FL)			(1)
		RELEASE_CALL(FL: Flag)			
10		L1!DSS2_PDU (INV_FL := INVERSE(FL)) START T308	Ms(RL,FL,CREF,RL_S1(C1 6))		(4)
11		L1?DSS2_PDU (END_FLAG:=TRUE) CANCEL T308	Mr(RC,INV_FL,CREF,RC_R 1)		(5)
12		?TIMEOUT T308			no response
13		(END_FLAG:=TRUE)			
14		L1?OTHERWISE			(2)
15		(END_FLAG:=TRUE)			

**Detailed Comments** :

- (1) Subtree to release the call.
- (2) An unexpected message was received. Return to PTC2\_OUT or PTC\_IN.
- (3) An invalid event occurred.
- (4) A valid RELEASE message with cause #16 is sent.
- (5) A RELEASE COMPLETE message is received from the IUT.