CallControl

Tue Oct 5 16:26:43 1999

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Test Suite Overview

Test Suite Structure

Suite Name : CallControl
Standards Ref : EN 302 092−1
PICS Ref : EN 302 092−2
PIXIT Ref : EN 302 092−4
Test Method(s) : Multi−party (see EN 302 092−4 clause 4)
Comments : Draft version, 08/99, cc_04.mp

Detailed Comments :

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Detailed Comments :

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Declarations Part

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

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

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

ASN.1 Type Definition	
Type Name	: Flag
Encoding Variation	:
Comments	: 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))	
Detailed Comments	:

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

ASN.1 Type Definition	
Type Name	: NI_contents
Encoding Variation	:
Comments	: EN 300 443−1 subclause 4.5.23
Type Definition	
OCTET STRING	
Detailed Comments	: Notification indicator contents

ASN.1 Type Definition	
Type Name	: State_value
Encoding Variation	:
Comments	: Possible Call state values are listed in ETS 300 796−1 Subclause 8.2.2.1
Type Definition	
BIT STRING(SIZE(6))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ProtocolProfile
Encoding Variation	:
Comments	:
Type Definition	
BIT STRING(SIZE(5))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: MessageHeader
Encoding Variation	:
Comments	: The message header is contained in each message.
Type Definition	

SEQUENCE {
protocolDiscriminator ProtocolDiscriminator,
callReference CallReference,
messageType MessageType
}	

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ProtocolDiscriminator
Encoding Variation	:
Comments	: Protocol discriminator for Q.2931 user−network call/connection control messages EN 300 443−1 subclause 4.2 or PNNI 1.0 Private Network−Network Interface specification subclause 6.4.2
Type Definition	
BIT STRING	
Detailed Comments	: ’00001001’B for Q.2931 ’11110000’B for PNNI

ASN.1 Type Definition	
Type Name	: CallReference
Encoding Variation	:
Comments	: Call reference EN 300 443−1 subclause 4.3
Type Definition	

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]
}	

Detailed Comments	:

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

ASN.1 Type Definition	
Type Name	: MessageType
Encoding Variation	:
Comments	: Message type including message compatibility instruction indicator EN 300 443−1 subclause 4.4.1
Type Definition	

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
}	

Detailed Comments	: (1) Message compatibility instruction indicator flag

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

ASN.1 Type Definition	
Type Name	: InformationElements
Encoding Variation	:
Comments	: EN 300 443−1 subclause 4.5

Type Definition

```
CHOICE {
      iEs_CALL_PROCEEDING      IEs_CALL_PROCEEDING,
      iEs_COBI_SETUP           IEs_COBI_SETUP,
      iEs_CONNECT              IEs_CONNECT,
      iEs_FACILITY             IEs_FACILITY,
      iEs_NOTIFY               IEs_NOTIFY,
      iEs_RELEASE              IEs_RELEASE,
      iEs_RELEASE_COMPLETE     IEs_RELEASE_COMPLETE,
      iEs_STATUS               IEs_STATUS,
      iEs_STATUS_ENQUIRY       IEs_STATUS_ENQUIRY,
      iEs_INVALID              IEs_INVALID
    }
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: IEs_CALL_PROCEEDING
Encoding Variation	:
Comments	: ETS 300 796−1 subclause 8.1.3.1

Type Definition

```
SET {}
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: IEs_COBI_SETUP
Encoding Variation	:
Comments	: ETS 300 796−1 subclause 8.1.3.2

Type Definition

```
SET {
    facilities           SET OF Facility      OPTIONAL,
    calledPartyNumber    CalledPartyNumber    OPTIONAL,
    calledPartySubaddress CalledPartySubaddress OPTIONAL,
    callingPartyNumber   CallingPartyNumber   OPTIONAL,
    notificationIndicator NotificationIndicator OPTIONAL
  }
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: IEs_CONNECT
Encoding Variation	:
Comments	: ETS 300 796−1 subclause 8.1.3.3
Type Definition	

SET {
facilities SET OF Facility OPTIONAL,
notificationIndicator NotificationIndicator OPTIONAL
}	

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IEs_FACILITY
Encoding Variation	:
Comments	: ETS 300 796−1 subclause 8.1.2.1 and 8.1.3.4
Type Definition	

SET {
facilities SET OF Facility,
calledPartyNumber CalledPartyNumber OPTIONAL,
calledPartySubaddress CalledPartySubaddress OPTIONAL,
callingPartyNumber CallingPartyNumber OPTIONAL,
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	
Type Name	: IEs_RELEASE
Encoding Variation	:
Comments	: EN 300 443−1 subclause 3.1.5, 3.2.6
Type Definition	

SET {
causes Causes,
facilities SET OF Facility OPTIONAL,
notificationIndicator NotificationIndicator OPTIONAL
}	

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IEs_RELEASE_COMPLETE
Encoding Variation	:
Comments	: EN 300 443−1 subclause 3.1.6
Type Definition	

SET {
causes Causes OPTIONAL
}	

Detailed Comments	:

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_INVALID
Encoding Variation	:
Comments	: Used to handle the receipt of incorrect messages
Type Definition	
OCTET STRING	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: IEHeader
Encoding Variation	:
Comments	: The IEHeader is contained in each information element.
Type Definition	

```
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
      }
```

Detailed Comments	:

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

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

ASN.1 Type Definition	
Type Name	: CallState
Encoding Variation	:
Comments	: EN 300 443−1 subclause 4.5.10
Type Definition	

```
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
      }
```

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Causes
Encoding Variation	:
Comments	: EN 300 443−1 subclause 4.5.15

Type Definition

```
SEQUENCE {
        cause         Cause  OPTIONAL,
        cause_repeated Cause  OPTIONAL −− (1)
       }
```

Detailed Comments : (1) The Cause information element may be repeated in RELEASE and RELEASE COMPLETE messages.

ASN.1 Type Definition	
Type Name	: Cause
Encoding Variation	:
Comments	: EN 300 443−1 subclause 4.5.15

Type Definition

```
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
       }
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: Facility
Encoding Variation	:
Comments	: ETS 300 296−1 subclause 8.2.2.2

Type Definition

```
SEQUENCE {
        iEHeader        IEHeader,
        iELength        IELength,
        extension_o3    BIT STRING('1'B),    −− Extension bit, set to '1'B
        spare_05        BIT STRING(SIZE(2)), −− Spare bits, normally set to '00'B
        protocol_profile ProtocolProfile,
        aPDUs           SET OF APDUs        −− CC APDUs defined in EN 302 092−1
       }
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: NotificationIndicator
Encoding Variation	:
Comments	: 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
       }
```

Detailed Comments :

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(SIZE(0..20)) 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(SIZE(0..20)) 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	
Type Name	: Code
Encoding Variation	:
Comments	: from from X.880 Annex A
Type Definition	
CHOICE { local INTEGER , global OBJECT IDENTIFIER }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: OId
Encoding Variation	:
Comments	:
Type Definition	
OBJECT IDENTIFIER	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: InvokeId
Encoding Variation	:
Comments	: from ETS 300 796−1 Table B.1
Type Definition	
CHOICE { present INTEGER, absent NULL }	
Detailed Comments	: Values: Sending APDUs: If it is an invoke APDU then use Test Case Variable (with default) to set value. If another invoke APDU is sent the TCV should be incremented beforehand. If it is a return result, error or reject APDU in response to a received invoke APDU then use TCV also, making sure the value is set to the value of the received APDU beforehand. Receiving APDUs If it is an invoke comp then use '?'. If it is a return result, error or reject APDU in response to a sent invoke APDU then use TCV value (as used in sent invoke APDU).

ASN.1 Type Definition

Type Name : CallEstablish_APDUs

Encoding Variation :

Comments : from CC−Operations of EN 302 092−1

Type Definition

```
CHOICE {
  callEstablish_Invoke [   1 ] IMPLICIT CallEstablish_Invoke ,
  callEstablish_ReturnResult [   2 ] IMPLICIT CallEstablish_ReturnResult ,
  callEstablish_ReturnError [   3 ] IMPLICIT CallEstablish_ReturnError ,
  callEstablish_Reject [   4 ] IMPLICIT Reject
  }
−− This is the CallEstablish Invoke APDU −−
 CallEstablish_Invoke
      ::= SEQUENCE { invokeId InvokeId ,
                     linkedid CHOICE { present [0] IMPLICIT InvokeId,
                                       absent [1] IMPLICIT NULL } OPTIONAL ,
                     opcode Code ,
                     argument Argument OPTIONAL }
−− This is the CallEstablish ReturnResult APDU −−

 CallEstablish_ReturnResult
      ::= SEQUENCE { invokeId InvokeId ,
                      result   SEQUENCE { opcode Code ,
                                          result Result} OPTIONAL }

−− This is the CallEstablish ReturnError APDU −−
 CallEstablish_ReturnError
      ::= SEQUENCE { invokeId InvokeId ,
                     errcode  Code,
                     parameter   Parameter }

−− Common (local) type elements −−

Argument ::= SEQUENCE  {
 callSegmentId [0] IMPLICIT CallSegmentId,
 callDescription [1] IMPLICIT CallDescription,
 bearerEstablAddress [2] IMPLICIT BearerEstablishmentAddress,
 awaitCompleteIndicator [3] IMPLICIT BOOLEAN,
 parameterActionIndicator [4] IMPLICIT ParameterActionIndicator }

Result ::= SEQUENCE {
 callSegmentId [0] IMPLICIT CallSegmentId,
 callDescription [1] IMPLICIT CallDescription,
 parameterActionIndicator [2] IMPLICIT ParameterActionIndicator,
 bearerEstablAddress [3] IMPLICIT BearerEstablishmentAddress OPTIONAL }

Parameter  ::=  SEQUENCE {
 callSegmentId [0] IMPLICIT CallSegmentId ,
 location [1] IMPLICIT Location ,
 callDescription [2] IMPLICIT CallDescription OPTIONAL }
```

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ASN.1 Type Definition
Detailed Comments : In Argument, Result and Parameter: The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition
Type Name : CallProceeding_APDUs **Encoding Variation :** **Comments :** from CC−Operations of EN 302 092−1
Type Definition

CHOICE {
callProceeding_Invoke [1] IMPLICIT CallProceeding_Invoke ,
callProceeding_Reject [4] IMPLICIT Reject
}
−− This is the CallProceeding Invoke APDU −−
CallProceeding_Invoke
::= SEQUENCE { invokeId InvokeId ,
linkedid CHOICE { present [0] IMPLICIT InvokeId,
absent [1] IMPLICIT NULL } OPTIONAL ,
opcode Code ,
argument Argument OPTIONAL }
 	
−− Common (local) type elements −−
 	
Argument ::= SEQUENCE {
callSegmentId [0] IMPLICIT CallSegmentId,
bearerEstablAddress [1] IMPLICIT BearerEstablishmentAddress,
parameterActionIndicator [2] IMPLICIT ParameterActionIndicator }

Detailed Comments : In Argument: The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition

Type Name : CallRelease_APDUs

Encoding Variation :

Comments : from CC−Operations of EN 302 092−1

Type Definition

```
CHOICE {
  callRelease_Invoke [   1 ] IMPLICIT CallRelease_Invoke ,
  callRelease_ReturnResult [   2 ] IMPLICIT CallRelease_ReturnResult ,
  callRelease_Reject [   4 ] IMPLICIT Reject
  }
−− This is the CallRelease Invoke APDU −−
 CallRelease_Invoke
      ::= SEQUENCE { invokeId InvokeId ,
                     linkedid CHOICE { present [0] IMPLICIT InvokeId,
                                       absent [1] IMPLICIT NULL } OPTIONAL ,
                     opcode Code ,
                     argument Argument OPTIONAL }
−− This is the CallRelease ReturnResult APDU −−

 CallRelease_ReturnResult
      ::= SEQUENCE { invokeId InvokeId ,
                     result   SEQUENCE { opcode Code ,
                                         result Result} OPTIONAL }

−− Common (local) type elements −−

Argument ::= SEQUENCE  {
 callSegmentId [0] IMPLICIT CallSegmentId,
 releaseCause [1] IMPLICIT ReleaseCause ,
 parameterActionIndicator [2] IMPLICIT ParameterActionIndicator }

Result ::= SEQUENCE {
 callSegmentId [0] IMPLICIT CallSegmentId,
 parameterActionIndicator [1] IMPLICIT ParameterActionIndicator }
```

Detailed Comments : In Argument and Result:
The original definition was modified, the extension markers have been removed.
Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: CallComplete_APDUs
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1

Type Definition

```
CHOICE {
   callComplete_Invoke [   1 ] IMPLICIT CallComplete_Invoke ,
   callComplete_Reject [   4 ] IMPLICIT Reject
   }
−− This is the CallComplete Invoke APDU −−
  CallComplete_Invoke
        ::= SEQUENCE { invokeId InvokeId ,
                       linkedid CHOICE { present [0] IMPLICIT InvokeId,
                                         absent [1] IMPLICIT NULL } OPTIONAL ,
                           opcode Code ,
                           argument Argument OPTIONAL }
−− Common (local) type elements −−

Argument ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  parameterActionIndicator [1] IMPLICIT ParameterActionIndicator
  }
```

Detailed Comments : In Argument:
The original definition was modified, the extension markers have been removed.
Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition

Type Name : CallStatus_APDUs

Encoding Variation :

Comments : from CC−Operations of EN 302 092−1

Type Definition

```
CHOICE {
  callStatus_Invoke [   1 ] IMPLICIT CallStatus_Invoke ,
  callStatus_Reject [   4 ] IMPLICIT Reject
  }
−− This is the CallEstablish Invoke APDU −−
 CallStatus_Invoke
      ::= SEQUENCE { invokeId InvokeId ,
                     linkedid CHOICE { present [0] IMPLICIT InvokeId,
                                       absent [1] IMPLICIT NULL } OPTIONAL ,
                         opcode Code ,
                         argument Argument }
−− Common (local) type elements −−

Argument ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  callChangedParameter [1] IMPLICIT SEQUENCE OF CallChangedParameter,
  parameterActionIndicator [2] IMPLICIT ParameterActionIndicator
  }
```

Detailed Comments : In Argument:
The original definition was modified, the extension markers have been removed.
Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: Error_APDUs
Encoding Variation	:
Comments	: Used for errneous APDUs

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ASN.1 Type Definition

Type Definition

```
CHOICE {
   error_Invoke       [1] IMPLICIT Error_Invoke ,
   error_ReturnResult [2] IMPLICIT Error_ReturnResult
   }
−− This is the Error Invoke APDU −−
  Error_Invoke
        ::= SEQUENCE { invokeId InvokeId ,
                    linkedid CHOICE { present [0] IMPLICIT InvokeId,
                                absent  [1] IMPLICIT NULL } OPTIONAL ,
                    opcode Code ,
                    argument Argument OPTIONAL }
−− This is the Error ReturnResult APDU −−

  Error_ReturnResult
        ::= SEQUENCE { invokeId InvokeId ,
                    result   SEQUENCE { opcode Code ,
                                result Result} OPTIONAL }

−− Common (local) type elements −−

Argument ::= CHOICE {  estInv EstInv,
                    proInv ProInv,
                    comInv ComInv,
                    relInv RelInv,
                    staInv StaInv }

EstInv ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  callDescription [1] IMPLICIT CallDescription,
  bearerEstablAddress [2] IMPLICIT BearerEstablishmentAddress,
  awaitCompleteIndicator [3] IMPLICIT BOOLEAN,
  parameterActionIndicator [4] IMPLICIT ParameterActionIndicator,
  unrecognised [5] IMPLICIT Unrecognised }

ProInv ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  bearerEstablAddress [1] IMPLICIT BearerEstablishmentAddress,
  parameterActionIndicator [2] IMPLICIT ParameterActionIndicator,
  unrecognised [3] IMPLICIT Unrecognised }

ComInv ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  parameterActionIndicator [1] IMPLICIT ParameterActionIndicator,
  unrecognised [2] IMPLICIT Unrecognised  }

RelInv ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  releaseCause [1] IMPLICIT ReleaseCause ,
  parameterActionIndicator [2] IMPLICIT ParameterActionIndicator,
  unrecognised [3] IMPLICIT Unrecognised }

StaInv ::= SEQUENCE  {
  callSegmentId [0] IMPLICIT CallSegmentId,
  callChangedParameter [1] IMPLICIT SEQUENCE OF CallChangedParameter,
  parameterActionIndicator [2] IMPLICIT ParameterActionIndicator,
  unrecognised [3] IMPLICIT Unrecognised }
```

Continued from previous page

ASN.1 Type Definition
Detailed Comments :

ASN.1 Type Definition	
Type Name	: General_APDUs
Encoding Variation	:
Comments	: Non specifiedAPDUs must match this type definition.

Type Definition

```
CHOICE {
  general_Invoke       [1] IMPLICIT General_Invoke,
  general_ReturnResult [2] IMPLICIT General_ReturnResult,
  general_ReturnError  [3] IMPLICIT General_ReturnError,
  general_Reject       [4] IMPLICIT Reject }


-- This is the General Invoke APDU --
General_Invoke
        ::= SEQUENCE { invokeId InvokeId ,
                       linkedid CHOICE { present [0] IMPLICIT InvokeId,
                                         absent [1] IMPLICIT NULL } OPTIONAL ,
                           opcode Code ,
                           argument ANY DEFINED BY opcode OPTIONAL }

-- This is the General ReturnResult APDU --
General_ReturnResult
        ::= SEQUENCE { invokeId InvokeId ,
                            result   SEQUENCE { opcode Code ,
                                                result ANY DEFINED BY opcode} OPTIONAL }

-- This is the General ReturnError APDU --
General_ReturnError
        ::= SEQUENCE { invokeId InvokeId ,
                           errcode  Code,
                           parameter   ANY DEFINED BY errcode}
```

Detailed Comments : &COMMON_U09

ASN.1 Type Definition	
Type Name	: GeneralProblem
Encoding Variation	:
Comments	: from from X.880 Annex A

Type Definition

```
ROSE_Problems (unrecognizedComponent   | mistypedComponent   | badlyStructuredComponent  )
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: InvokeProblem
Encoding Variation	:
Comments	: from from X.880 Annex A
Type Definition	
ROSE_Problems (duplicateInvocation | unrecognizedOperation | mistypedArgument | resourceLimitation | releaseInProgress | unrecognizedLinkedId | linkedResponseUnexpected | unexpectedLinkedOperation)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Reject
Encoding Variation	:
Comments	: from from X.880 Annex A Reject APDU is not specific to any particular operation. The invokeID may be used to identify a specific operation.
Type Definition	

SEQUENCE {
invokedId InvokeId,
problem CHOICE { general [0] IMPLICIT GeneralProblem ,
invoke [1] IMPLICIT InvokeProblem ,
returnResult [2] IMPLICIT ReturnResultProblem ,
returnError [3] IMPLICIT ReturnErrorProblem }
}	

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ReturnErrorProblem
Encoding Variation	:
Comments	: from from X.880 Annex A
Type Definition	
ROSE_Problems (unrecognizedInvocation | errorResponseUnexpected | unrecognizedError | unexpectedError | mistypedParameter)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ReturnResultProblem
Encoding Variation	:
Comments	: from from X.880 Annex A
Type Definition	
ROSE_Problems (unrecognizedInvocation | resultResponseUnexpected | mistypedResult)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ROSE_Problems
Encoding Variation	:
Comments	: from from X.880 Annex A

Type Definition

```
INTEGER {
unrecognizedComponent (0) ,
-- GeneralProblem
duplicateInvocation (0) ,
-- InvokeProblem
unrecognizedInvocation (0) ,
-- ReturnResultProblem, ReturnErrorProblem
mistypedComponent (1) ,
-- GeneralProblem
unrecognizedOperation (1) ,
-- InvokeProblem
resultResponseUnexpected (1) ,
-- ReturnResultProblem
errorResponseUnexpected (1) ,
-- ReturnErrorProblem
badlyStructuredComponent (2) ,
-- InvokeProblem
mistypedArgument (2) ,
-- InvokeProblem
mistypedResult (2) ,
-- ReturnResultProblem
unrecognizedError (2) ,
-- ReturnErrorProblem
resourceLimitation (3) ,
-- InvokeProblem
unexpectedError (3) ,
-- ReturnResultProblem
releaseInProgress (4) ,
-- InvokeProblem
mistypedParameter (4) ,
-- ReturnErrorProblem
unrecognizedLinkedId (5) ,
-- InvokeProblem
linkedResponseUnexpected (6) ,
-- InvokeProblem
unexpectedLinkedOperation (7)
-- InvokeProblem
}
```

Detailed Comments : Errors of the same integer value are distinguished by their different parent types (General, Invoke, ReturnResult, ReturnError).

ASN.1 Type Definition	
Type Name	: APDUs
Encoding Variation	:
Comments	: ASN1_Encoding: BER The collection of all possible APDUs for CC
Type Definition	

CHOICE {
general_APDUs General_APDUs,
callEstablish_APDUs CallEstablish_APDUs ,
callProceeding_APDUs CallProceeding_APDUs ,
callRelease_APDUs CallRelease_APDUs ,
callComplete_APDUs CallComplete_APDUs ,
callStatus_APDUs CallStatus_APDUs,
error_APDUs Error_APDUs
}	

Detailed Comments	: plural APDUs as each type represents invoke, return result, return error etc.

ASN.1 Type Definition	
Type Name	: BearerEstablishmentAddress
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
PartyNumber	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CallChangedParameter
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
SEQUENCE { modifiedNetworkRelevantPart [0] IMPLICIT SEQUENCE OF ModifiedNetworkRelevantObjectDescription, modifiedEndToEndRelevantPart [1] IMPLICIT SEQUENCE OF ModifiedEndToEndRelevantObjectDescription OPTIONAL }	
Detailed Comments	: Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: CallDescription
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	

SEQUENCE {
networkRelevantPart [0] IMPLICIT SEQUENCE OF NetworkRelevantObjectDescription,
endToEndRelevantPart [1] IMPLICIT SEQUENCE OF EndToEndRelevantObjectDescription OPTIONAL
}	

Detailed Comments	: Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: CallSegmentId
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
SEQUENCE { precedingSideCallSegId [0] IMPLICIT CallSegmentIdComponent, succeedingSideCallSegId [1] IMPLICIT CallSegmentIdComponent }	
Detailed Comments	: Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: CallSegmentIdComponent
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
INTEGER (−2147483648 .. 2147483647) −− 4 octets −− The value 0 is to be used as a null value for the succeeding side call segment identifier −− in the callEstablish invoke APDU.	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CauseValue
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
ENUMERATED { callDescriptionNotAccepted_ (0), normalCallClearing (3), temporaryFailure (11), recoveryOnTimerExpiry (12), unspecified (4) }	
Detailed Comments	: The original definition was modified, the extension markers have been removed. The name callDescriptionNotAccepted_ was modified to make difference from callDescriptionNotAccepted ERROR.

ASN.1 Type Definition	
Type Name	: EndToEndRelevantObjectDescription
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	

SEQUENCE {
objectReference [0] IMPLICIT INTEGER,
objectActionInd [1] IMPLICIT ObjectActionIndicator,
objectStatus [2] IMPLICIT ObjectStatus,
objectClassId [3] IMPLICIT OBJECT IDENTIFIER ,
objectArgument [4] IMPLICIT CHOICE {
serviceComponent_Argument ServiceComponent_Argument }
}	

Detailed Comments	: The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: Location
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1

Type Definition

```
ENUMERATED { unspecified_ (0),
             user (1),
             networkLocalCallSegment (2),
             networkNonLocalCallSegment (3)
           }
```

Detailed Comments : The original definition was modified, the extension markers have been removed. unspecified was changed to unspecified_ to meake difference between Location and Cause unspecified.

ASN.1 Type Definition	
Type Name	: NetworkRelevantObjectDescription
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1

Type Definition

```
SEQUENCE {
   objectReference   [0] IMPLICIT  INTEGER,
   objectActionInd   [1] IMPLICIT   ObjectActionIndicator,
   objectStatus      [2] IMPLICIT    ObjectStatus,
   objectClassId     [3] IMPLICIT  OBJECT IDENTIFIER ,
   objectArgument    [4] IMPLICIT CHOICE {
     call_Argument Call_Argument,
     localPartyEP_Argument LocalPartyEP_Argument,
     remotePartyEP_Argument RemotePartyEP_Argument,
     directCallAssociation_Argument DirectCallAssociation_Argument,
     remoteCallAssociation_Argument RemoteCallAssociation_Argument,
     serviceComponent_Argument ServiceComponent_Argument      }
                }
```

Detailed Comments : The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: ModifiedEndToEndRelevantObjectDescription
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1

Type Definition

```
SEQUENCE {
operation [0] IMPLICIT Operation,
objectReference [1] IMPLICIT INTEGER,
objectActionInd   [2] IMPLICIT   ObjectActionIndicator,
modifiedArgument [3] IMPLICIT CHOICE {
      serviceComponent_Argument ServiceComponent_Argument      } OPTIONAL
}
```

Detailed Comments : The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: ModifiedNetworkRelevantObjectDescription
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1

Type Definition

```
SEQUENCE {
operation [0] IMPLICIT Operation,
objectReference [1] IMPLICIT INTEGER,
objectActionInd   [2] IMPLICIT   ObjectActionIndicator,
modifiedArgument [3] IMPLICIT CHOICE {
      call_Argument Call_Argument,
      localPartyEP_Argument LocalPartyEP_Argument,
      remotePartyEP_Argument RemotePartyEP_Argument,
      directCallAssociation_Argument DirectCallAssociation_Argument,
      remoteCallAssociation_Argument RemoteCallAssociation_Argument,
      serviceComponent_Argument ServiceComponent_Argument      } OPTIONAL
}
```

Detailed Comments : The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: ObjectActionIndicator
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
ENUMERATED { clearCall (0), discardNotify (1), discardUnknown (2), progressTransit (3) } −− Used to indicate action to be taken if an object or object attribute is not recognised	
Detailed Comments	: The original definition was modified, the extension markers have been removed.

ASN.1 Type Definition	
Type Name	: ObjectStatus
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	

ENUMERATED {
mandatory(0),
optional(1),
conditional(2)
}	

Detailed Comments	: The original definition was modified, the extension markers have been removed.

ASN.1 Type Definition	
Type Name	: Operation
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
ENUMERATED { deleteObject(0), modifyAttributes(1) }	
Detailed Comments	: The original definition was modified, the extension markers have been removed.

ASN.1 Type Definition	
Type Name	: ParameterActionIndicator
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
ENUMERATED { clearCallAndItsInformationModel (0), discardApduAndReject (1), discardApduNoReject (2), discardParameterAndPassApduToApplication (3), ignoreParameterAndPassApduToApplication (4) } −− Used to indicate action to be taken if a parameter in an operation is not recognised	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ReleaseCause
Encoding Variation	:
Comments	: from CC−Operations of EN 302 092−1
Type Definition	
SEQUENCE { causeValue [0] IMPLICIT CauseValue, location [1] IMPLICIT Location }	
Detailed Comments	: The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: Call_Argument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	

SEQUENCE {
localPEPId [0] IMPLICIT ObjectReferenceId,
remotePEPId [1] IMPLICIT ObjectReferenceId,
serviceReference [2] IMPLICIT ObjectReferenceId OPTIONAL,
directCallAssociationIds [3] IMPLICIT ObjectReferenceIdList,
remoteCallAssociationIds [4] IMPLICIT ObjectReferenceIdList OPTIONAL,
bearerIdList [5] IMPLICIT BearerIdList OPTIONAL,
telecomsServiceType [6] IMPLICIT TelecomsServiceType,
callPermissions [7] IMPLICIT OpenCall
}	

Detailed Comments	: Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: LocalPartyEP_Argument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
PartyObjectArgument	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RemotePartyEP_Argument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
PartyObjectArgument	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: DirectCallAssociation_Argument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	

SEQUENCE {
remotePEPId [0] IMPLICIT ObjectReferenceId
}	

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: RemoteCallAssociation_Argument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	

SEQUENCE {
localPEPId [0] IMPLICIT ObjectReferenceId,
remotePEPId [1] IMPLICIT ObjectReferenceId
}	

Detailed Comments	: Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: ServiceComponent_Argument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	

SEQUENCE {
callPEPId [0] IMPLICIT ObjectReferenceId,
serviceComponentCharacteristics [1] IMPLICIT ServiceComponentCharacteristics OPTIONAL,
communicationConfiguration [2] IMPLICIT CommunicationConfiguration OPTIONAL,
serviceTrafficDescriptorRequirements [3] IMPLICIT ServiceTrafficDescriptorRequirements OPTIONAL,
serviceComponentQoSRequirements [4] IMPLICIT ServiceQoSRequirements OPTIONAL,
associatedServiceModuleId [5] IMPLICIT ObjectReferenceId OPTIONAL,
associatedResourceComponentId [6] IMPLICIT ObjectReferenceId OPTIONAL
}	

Detailed Comments	: Tagging was made according to AUTOMATIC tagging rules.

ASN.1 Type Definition	
Type Name	: BearerIdList
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
SEQUENCE OF BearerId	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: BearerId
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
OCTET STRING (SIZE (1..3))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: CommunicationConfiguration
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
ENUMERATED { source(0), sink(1), biDirectional(2) }	
Detailed Comments	: The original definition was modified, the extension markers have been removed.

ASN.1 Type Definition	
Type Name	: DefaultAddress
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
OCTET STRING (SIZE(1..21))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: NetworkInternalAddress
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
OCTET STRING (SIZE(1..21))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ObjectReferenceId
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
INTEGER (−2147483648 .. 2147483647) −− 4 octets −− refers to an object reference, unique to each object within a call	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ObjectReferenceIdList
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
SEQUENCE OF ObjectReferenceId	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: OpenCall
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
BIT STRING { reserved(7), externalPartyAddAllowed(6), existingPartyAddAllowed(5), notifyAllPartiesFlag(4), notifyOwnerFlag(3), permissionRequiredFlag(2), addConnectionAllowed(1), addServiceComponentAllowed(0) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PartyAddress
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	

SEQUENCE {
presentedAddressScreened [0] IMPLICIT PresentedAddressScreened,
defaultAddress [1] IMPLICIT DefaultAddress OPTIONAL,
networkInternalAddress [2] IMPLICIT NetworkInternalAddress OPTIONAL
}	

Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PartyObjectArgument
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	

SEQUENCE {
partyAddress [0] IMPLICIT PartyAddress,
partyOwnerPEPId [1] IMPLICIT ObjectReferenceId,
associatedResourcePEPIds [2] IMPLICIT ObjectReferenceIdList OPTIONAL,
associatedPEPIds [3] IMPLICIT ObjectReferenceIdList OPTIONAL,
partyType [4] IMPLICIT ENUMERATED {initiator(0), receiver(1), callOwner(2) },
partyStatus [5] IMPLICIT ENUMERATED {confirmed (0), virtual(1), alerting(2) }
}	

Detailed Comments	: The original definition was modified, the extension markers have been removed. Tagging was made according to AUTOMATIC tagging rules. The optional defaultAddress and networkInternalAddress are not used, because these are undefined.

ASN.1 Type Definition	
Type Name	: ServiceComponentCharacteristics
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
OCTET STRING	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ServiceQoSRequirements
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
OCTET STRING	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ServiceTrafficDescriptorRequirements
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
OCTET STRING	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TelecomsServiceType
Encoding Variation	:
Comments	: from Call−Object−Class−Definition of EN 302 092−1
Type Definition	
ENUMERATED { realtimeMultiMedia(0), nonRealtimeMultiMedia(1), unspecified__(2) }	
Detailed Comments	: The original definition was modified, the extension markers have been removed. unspecified was changed to unspecified__ to meake difference between Location, Cause and TelecomsServiceType unspecified.

ASN.1 Type Definition	
Type Name	: AddressScreened
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
SEQUENCE { partyNumber PartyNumber, screeningIndicator ScreeningIndicator, partySubaddress PartySubaddress OPTIONAL }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: NsapEncodedNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
OCTET STRING (SIZE (1..20))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: NSAPSubaddress
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
OCTET STRING (SIZE(1..20)) −− specified according to X.213. some networks may limit −− the subaddress value to some other length, e.g. 4 octets.	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: NumberDigits
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
NumericString (SIZE (1..20))	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PartyNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }

Type Definition

```
CHOICE  {
unknownPartyNumber  [0]  IMPLICIT  NumberDigits,
  −− the numbering plan is the default numbering plan of
  −− the network.
  −− it is recommended that this values is used.
publicPartyNumber  [1]  IMPLICIT PublicPartyNumber,
  −− the numbering plan is according to Rec. E.163 and
  −− E.164
nsapEncodedNumber  [2]  IMPLICIT NsapEncodedNumber,
  −− ATM endsystem address encoded as an NSAP address
dataPartyNumber  [3]  IMPLICIT  NumberDigits,
  −− not used, value reserved
telexPartyNumber  [4]  IMPLICIT NumberDigits,
  −− not used, value reserved
privatePartyNumber  [5]  IMPLICIT PrivatePartyNumber,
nationalStandardPartyNumber  [8]  IMPLICIT NumberDigits  }
  −− not used, values reserved
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: PartySubaddress
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }

Type Definition

```
CHOICE  {
userSpecifiedSubaddress     UserSpecifiedSubaddress,
                                −− not recommended
nSAPSubaddress               NSAPSubaddress  }
                                −− according to Rec. X.213.
```

Detailed Comments :

ASN.1 Type Definition	
Type Name	: PresentedAddressScreened
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
CHOICE {	
presentationAllowedAddress	[0] IMPLICIT AddressScreened,
presentationRestricted	[1] IMPLICIT NULL,
numberNotAvailableDueToInterworking	[2] IMPLICIT NULL,
presentationRestrictedAddress	[3] IMPLICIT AddressScreened }
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PrivatePartyNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
SEQUENCE {	
privateTypeOfNumber PrivateTypeOfNumber,	
privateNumberDigits NumberDigits }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PrivateTypeOfNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
TypeOfNumber (unknown | level2RegionalNumber | level1RegionalNumber | pISNSpecificNumber | localNumber | abbreviatedNumber)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PublicPartyNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
SEQUENCE { publicTypeOfNumber PublicTypeOfNumber, publicNumberDigits NumberDigits }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: PublicTypeOfNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
TypeOfNumber (unknown | internationalNumber | nationalNumber | networkSpecificNumber | subscriberNumber | abbreviatedNumber)	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: ScreeningIndicator
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
ENUMERATED { userProvidedNotScreened (0), −− number was provided by a remote user terminal −− equipment, and has been screened by a network that −− is not the local public or the local private network. userProvidedVerifiedAndPassed (1), −− number was provided by a remote user terminal −− equipment (or by a remote private network), and has −− been screened by the local public or the local private −− network. userProvidedVerifiedAndFailed (2), −− not used, value reserved. networkProvided (3) } −− number was provided by local public or local private −− network.	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: SubaddressInformation
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
OCTET STRING (SIZE(1..20)) −− coded according to user requirements. some networks −− may limit the subaddress value to some other length, −− e.g. 4 octets.	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: TypeOfNumber
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) } modified for TTCN ASN.1 (combination of PublicTypeOfNumber and PrivateTypeOfNumber).
Type Definition	
ENUMERATED { unknown (0) , level2RegionalNumber (1) , internationalNumber (1) , level1RegionalNumber (2) , nationalNumber (2) , pISNSpecificNumber (3) , networkSpecificNumber (3) , localNumber (4) , subscriberNumber (4) , abbreviatedNumber (6) }	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: UserSpecifiedSubaddress
Encoding Variation	:
Comments	: from { itu−t recommendation q 932 addressing−data−elements (7) }
Type Definition	
SEQUENCE { subaddressInformation SubaddressInformation, oddCountIndicator BOOLEAN OPTIONAL } −− used when the coding of subaddress is BCD	
Detailed Comments	:

ASN.1 Type Definition	
Type Name	: Unrecognised
Encoding Variation	:
Comments	: Used as unrecognised parameter in the Erro_APDUs type
Type Definition	
BIT STRING	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: CALCULATE_FIE_LENGTH(apdu: APDUs)
Result Type	: IELength
Comments	: Operation to calculate the Facility information element length
Description	
IELength CALCULATE_FIE_LENGTH(APDUs) This operation calculates the length of a Facility information element The amount of octets represented by octet 3 and the set of APDUs specified by the parameter apdu is returned. Example: CALCULATE_FIE_LENGTH(CallEstInvAPDU_S1) = ’0000000001011011’B	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: CALCULATE_MSG_LENGTH(IEs: InformationElements)
Result Type	: MessageLength
Comments	: Operation to calculate the message length
Description	
MessageLength CALCULATE_MSG_LENGTH(IEs) 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. Example: CALCULATE_MSG_LENGTH(IEs_SETUP) = ’0000000001011011’B	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: RANDOM_INVOKEID
Result Type	: InvokeId
Comments	: Operation to obtain a random invoke ID value.
Description	
InvokeId RANDOM_INVOKEID() This operation returns a random InvokeId. The value range is between −32768 and 32767. Example: RANDOM_INVOKEID = 3567	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: RANDOM_CREF
Result Type	: Cr_value
Comments	: Operation to obtain a random call reference value.
Description	
Cr_value RANDOM_CREF This operation returns a random BITSTRING[23]. The value ’00000000000000000000000’B is excluded. Example: RANDOM_CREF = ’00101001110010010100011’B	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: ESTABLISH_UNDERLYING_LAYERS
Result Type	: BOOLEAN
Comments	: Empty test suite operation to be completed by the test laboratory.
Description	
BOOLEAN ESTABLISH_UNDERLYING_LAYERS() 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 EN 300 443−1 and EN 300 771−1. This test suite operation used in the preambles to enter the Null call state N00 has to 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. The output of this test operation is a BOOLEAN value that describes, whether the underlying layers have been established successfully. Example: ESTABLISH_UNDERLYING_LAYERS() = TRUE Establishment of underlying layer accomplished. ESTABLISH_UNDERLYING_LAYERS() = FALSE Establishment of underlying layer failed.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: INVERSE(FL: Flag)
Result Type	: Flag
Comments	: 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	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: GET_SEGMENT_ID(apdu: APDUs; prec_succ: INTEGER)
Result Type	: CallSegmentIdComponent
Comments	: Returns the call segment ID of a given APDU
Description	
CallSegmentIdComponent GET_SEGMENT_ID(APDUs, prec_succ) This operation returns the value of the preceding side call segment ID, if the parameter prec_succ is set to 0 or the succeeding side call segment ID, if the parameter prec_succ is set to 1. The value is extracted from the APDU given in the parameter apdu. Examples: GET_SEGMENT_ID(CallEstInvAPDU_R1,0) = 1362	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name	: GET_INVOKE_ID(apdu: APDUs)
Result Type	: InvokeId
Comments	: Returns the invoke ID of a given APDU
Description	
InvokeId GET_INVOKE_ID(APDUs) This operation returns the value of the invoke ID of the APDU given in the parameter apdu. Examples: GET_INVOKE_ID(CallEstInvAPDU_R1) = 1362	
Detailed Comments :	

Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PC_ORIGINATING	BOOLEAN	CC_PICS R1	Support of Call Control in an originating CC entity
PC_TERMINATING	BOOLEAN	CC_PICS R3	Support of Call Control in a terminating CC entity
PC_TRANSIT	BOOLEAN	CC_PICS R2	Support of Call Control in a transit CC entity
PC_SUPP_3MSG_SEQ	BOOLEAN	CC_PICS MC4	Support three message sequence for call establishment
PC_CALL_PROC	BOOLEAN	CC_PICS MC6	Support signalling procedures for call proceeding when acting as a succeeding CC entity
PC_STAT_CHANGE_INI	BOOLEAN	CC_PICS MC11	Support signalling procedures for call status change report when acting as an initiating CC entity
PC_STAT_CHANGE_REC	BOOLEAN	CC_PICS MC12	Support signalling procedures for call status change report when acting as a receiving CC entity
PC_COBI	BOOLEAN	CC_PICS MC30 CC_PICS MC31	Support COBI transport mechanism at the Qb, Sb and coincident Sb/Tb reference point
PC_MODIFIED_PART	BOOLEAN	CC_PICS P4	Support inclusion of a modified end−to−end relevant part within callChangedParameter
PX_normalCallClearing	BOOLEAN	PIXIT 1.1	Support the sending of cause value set to normalCallClearing
PX_callDescriptionNotAccepted	BOOLEAN	PIXIT 1.2	Support the sending of cause value set to callDescriptionNotAccepted
PX_temporaryFailure	BOOLEAN	PIXIT 1.3	Support the sending of cause value set to temporaryFailure
PX_BearerEstAddr_Pre	BearerEstablishmentAddress	PIXIT 2.1	Bearer establishment address of the preceding side

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PX_BearerEstAddr_Succ	BearerEstablishmentAddress	PIXIT 2.2	Bearer establishment address of the succeeding side
PX_BearerId_V	BearerId	PIXIT 2.3	Valid Bearer ID (ASN.1 OCTET STRING(SIZE (1..3)))
PX_PrecPEP_Address	PartyAddress	PIXIT 2.4	ASN1 definition for preceding side party EP address
PX_SuccPEP_Address	PartyAddress	PIXIT 2.5	ASN1 definition for succeeding side party EP address
PX_CallDescr_NotAcc_exists	BOOLEAN	PIXIT 2.6	True, if a value can be given for PIXIT item 2.6
PX_CallDescr_NotAcc	CallDescription	PIXIT 2.6	Value for the callDescription parameter that will not be accepted by the CC signalling user
PX_CallDescr_UnalNum_exists	BOOLEAN	PIXIT 2.7	True, if a value can be given for PIXIT item 2.7
PX_CallDescr_UnalNum	CallDescription	PIXIT 2.7	Value for the callDescription parameter containing an unallocated number
PX_CallDescr_IncAddr_exists	BOOLEAN	PIXIT 2.8	True, if a value can be given for PIXIT item 2.8
PX_CallDescr_IncAddr	CallDescription	PIXIT 2.8	Value for the callDescription parameter containing an incomplete address
PX_PD	ProtocolDiscriminator	PIXIT 2.9	Protocol discriminator: ’00001001’B for Q.2931 ’11110000’B for PNNI
PX_Prot_Profile	ProtocolProfile	PIXIT 2.10	Protocol profile to be used in the Facility information element
PX_TAC	INTEGER	PIXIT 3.1	Value for timer that controls the reaction of the IUT to erroneous messages. (Value in 1/1000 seconds)

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PX_TNOAC	INTEGER	PIXIT 3.2	Value for timer that controls the inactivity of the IUT. (Value in 1/1000 seconds)
PX_TWAIT	INTEGER	PIXIT 3.3	Value for timer that controls test events initiated at the IUT via a PTC. (Value in seconds)
PX_T701MAX	INTEGER	PIXIT 3.4	T701 value + 10%; default 162 s
PX_T703MAX	INTEGER	PIXIT 3.5	T703 value + 3000ms; in ms; 3−15 s
PX_T708MAX	INTEGER	PIXIT 3.6	T708 value + 10%; default 33000 ms
PX_T710MIN	INTEGER	PIXIT 3.7	T710 value − 10%; default 27000 ms
PX_T710MAX	INTEGER	PIXIT 3.7	T710 value + 10%; default 33000 ms
Detailed Comments :			

Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
Preceding_side	PC_ORIGINATING OR PC_TRANSIT	Preceding side procedures supported
Succeeding_side	PC_TERMINATING OR PC_TRANSIT	Succeeding side procedures supported
SUPP_3MSG_SEQ	PC_SUPP_3MSG_SEQ	Three message sequence supported
STAT_CHANGE_INI	PC_STAT_CHANGE_INI	Support signalling procedures for call status change report when acting as an initiating CC entity
STAT_CHANGE_REC	PC_STAT_CHANGE_REC	Support signalling procedures for call status change report when acting as a receiving CC entity
MODIFIED_PART	PC_MODIFIED_PART	Support inclusion of a modified end−to−end relevant part within callChangedParameter
MSG3_SEQ_MODIFIED_PART	PC_SUPP_3MSG_SEQ AND PC_MODIFIED_PART	Three message sequence, inclusion of a modified end−to−end relevant part within callChangedParameter supported,
MSG3_SEQ_NormalCallClearing	PC_SUPP_3MSG_SEQ AND PX_normalCallClearing	Three message sequence supported, PX_normalCallClearing
MSG3_SEQ_TemporaryFailure	PC_SUPP_3MSG_SEQ AND PX_temporaryFailure	Three message sequence supported, PX_temporaryFailure
MSG3_SEQ_CallDescriptionNotAccepted	PC_SUPP_3MSG_SEQ AND PX_callDescriptionNotAccepted	Three message sequence supported, PX_callDescriptionNotAccepted
CALL_PROC	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT)	State CC4 unstable
NOT_CALL_PROC	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT)	State CC4 stable
NOT_CC4_CallDescr_IncAddr_exists	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_CallDescr_IncAddr_exists	State CC4 unstable, PX_CallDescr_IncAddr_exists
CC4_CallDescr_IncAddr_exists	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_CallDescr_IncAddr_exists	State CC4 stable, PX_CallDescr_IncAddr_exists
NOT_CC4_CallDescr_UnalNum_exists	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_CallDescr_UnalNum_exists	State CC4 unstable, PX_CallDescr_UnalNum_exists

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Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
CC4_CallDescr_UnalNum_exists	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_CallDescr_UnalNum_exists	State CC4 stable, PX_CallDescr_UnalNum_exists
NOT_CC4_CallDescr_NotAcc_exists	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_CallDescr_NotAcc_exists	State CC4 unstable, PX_CallDescr_NotAcc_exists
CC4_CallDescr_NotAcc_exists	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_CallDescr_NotAcc_exists	State CC4 stable, PX_CallDescr_NotAcc_exists
NormalCallClearing_Prec	PX_normalCallClearing AND (PC_ORIGINATING OR PC_TRANSIT)	Preceding side, PX_normalCallClearing
NormalCallClearing_Succ	PX_normalCallClearing AND (PC_TERMINATING OR PC_TRANSIT)	Succeeding side, PX_normalCallClearing
CC4_NormalCallClearing	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_normalCallClearing	State CC4 stable, PX_normalCallClearing
NOT_CC4_NormalCallClearing	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_normalCallClearing	State CC4 unstable, PX_normalCallClearing
CC4_CallDescriptionNotAccepted	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_callDescriptionNotAccepted	State CC4 stable, PX_callDescriptionNotAccepted
NOT_CC4_CallDescriptionNotAccepted	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_callDescriptionNotAccepted	State CC4 unstable, PX_callDescriptionNotAccepted
TemporaryFailure_Prec	PX_temporaryFailure AND (PC_ORIGINATING OR PC_TRANSIT)	Preceding side, PX_temporaryFailure
TemporaryFailure_Succ	PX_temporaryFailure AND (PC_TERMINATING OR PC_TRANSIT)	Succeeding side, PX_temporaryFailure
CC4_TemporaryFailure	NOT PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_temporaryFailure	State CC4 stable, PX_temporaryFailure

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Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
NOT_CC4_TemporaryFailure	PC_CALL_PROC AND (PC_TERMINATING OR PC_TRANSIT) AND PX_temporaryFailure	State CC4 unstable, PX_temporaryFailure
Detailed Comments :		

Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
COBI_SU	MessageIdentifier	’00010101’B	COBI_SETUP
CPR	MessageIdentifier	’00000010’B	CALL PROCEEDING
CN	MessageIdentifier	’00000111’B	CONNECT
FAC	MessageIdentifier	’01100010’B	FACILITY
RL	MessageIdentifier	’01001101’B	RELEASE
RC	MessageIdentifier	’01011010’B	RELEASE COMPLETE
F0	Flag	’0’B	Flag values
F1	Flag	’1’B	
Called_party_number_ID	IEIdentifier	’01110000’B	
Called_party_subaddress_ID	IEIdentifier	’01110001’B	
Calling_party_number_ID	IEIdentifier	’01101100’B	
Cause_ID	IEIdentifier	’00001000’B	
Facility_ID	IEIdentifier	’00011100’B	
Notification_indicator_ID	IEIdentifier	’00100111’B	
callEstablish_OID	OId	{ccOperationsDefinitions 1}	Object Identifier value.
callProceeding_OID	OId	{ccOperationsDefinitions 2}	Object Identifier value.
callRelease_OID	OId	{ccOperationsDefinitions 3}	Object Identifier value.
callComplete_OID	OId	{ccOperationsDefinitions 4}	Object Identifier value.
callStatus_OID	OId	{ccOperationsDefinitions 5}	Object Identifier value.
callDescriptionNotAccepted	OId	{ccOperationsErrors 1}	Object Identifier value.
userBusy_OID	OId	{ccOperationsErrors 2}	Object Identifier value.
unallocatedNumber_OID	OId	{ccOperationsErrors 3}	Object Identifier value.
noUserResponding_OID	OId	{ccOperationsErrors 4}	Object Identifier value.
noAnswerFromUser_OID	OId	{ccOperationsErrors 5}	Object Identifier value.
callRejected_OID	OId	{ccOperationsErrors 6}	Object Identifier value.
destinationOutOfOrder_OID	OId	{ccOperationsErrors 7}	Object Identifier value.
addressIncomplete_OID	OId	{ccOperationsErrors 8}	Object Identifier value.
networkOutOfOrder_OID	OId	{ccOperationsErrors 9}	Object Identifier value.
temporaryFailure_OID	OId	{ccOperationsErrors 10}	Object Identifier value.

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
userNotReachable_OID	OId	{ccOperationsErrors 11}	Object Identifier value.
call_OID	OId	{ ccObjectClasses 1}	Object Identifier value.
localPartyEP_OID	OId	{ ccObjectClasses 2}	Object Identifier value.
remotePartyEP_OID	OId	{ ccObjectClasses 3}	Object Identifier value.
directCallAssociation_OID	OId	{ ccObjectClasses 4}	Object Identifier value.
remoteCallAssociation_OID	OId	{ ccObjectClasses 5}	Object Identifier value.
serviceComponent_OID	OId	{ ccObjectClasses 6}	Object Identifier value.
Dummy_CR	Cr_value	’111111111111111111111111’B	
C16	Cause_value	’0010000’B	
Detailed Comments :			

Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
CREF	Cr_value		Call reference value
END_FLAG	BOOLEAN	FALSE	Control flag for REPEAT loops
PTC_ACTIVATED	BOOLEAN	TRUE	Control flag for PTC activation
INV_FL	Flag		Inverted call reference flag
INV_ID	InvokeId		Invoke ID
INV_ID2	InvokeId		Invoke ID
PREC_SEG_ID	CallSegmentIdComponent	1	Preceding call segment ID
SUCC_SEG_ID	CallSegmentIdComponent	−1	Succeeding call segment ID
LOC	Location		Location
ERROR_CODE	OId		Error code
CAUSE_VALUE	CauseValue		Cause value
Detailed Comments :			

PCO Type Declarations		
PCO Type	**Role**	**Comments**
SAP	LT	
Detailed Comments：		

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)

Detailed Comments : (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
Detailed Comments：	

Timer Declarations			
Timer Name	**Duration**	**Unit**	**Comments**
TWAIT	PX_TWAIT	s	(1)
TAC	PX_TAC	ms	(2)
TNOAC	PX_TNOAC	ms	(3)
T701	PX_T701MAX	s	
T703	PX_T703MAX	ms	
T708	PX_T708MAX	ms	
T710	PX_T710MAX	ms	
T_MIN		ms	
T_MAX		ms	

Detailed Comments : (1) Timer to control test events initiated at the IUT via a PTC.
(2) Timer to control the reaction of the IUT to erroneous messages.
(3) Timer to control the inactivity of the IUT.

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

Test Components Configuration Declaration			
Configuration Name : CONFIG0			
Comments :			
Components Used	**PCOs Used**	**CPs Used**	**Comments**
MTCA	L0		
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : CONFIG1			
Comments :			
Components Used	**PCOs Used**	**CPs Used**	**Comments**
MTCA	L0	CPA1	
PTC1	L1,O	CPA1	
Detailed Comments :			

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

ASP Type Definition		
ASP Name : AAL_REL_IN (AAL−RELEASE−INDICATION)		
PCO Type : SAP		
Comments : 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**
Detailed Comments :		

PDU Type Definition			
PDU Name : DISPLAY			
PCO Type : SAP			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Type**	**Field Encoding**	**Comments**
ACTION	IA5String		String displayed by the tester.
Detailed Comments :			

ASN.1 PDU Type Definition
PDU Name : DSS2_PDU
PCO Type : SAP
Encoding Rule Name :
Encoding Variation :
Comments : EN 300 443−1 subclause 3.1
Type Definition

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

Detailed Comments :

CM Type Definition		
CM Name : CP_M_Data **Comments :** coordination message		
Parameter Name	**Parameter Type**	**Comments**
CM_content	IA5String	message content in clear text
location	Location	
error	OId	
cause	CauseValue	
Detailed Comments :		

CM Type Definition		
CM Name : CP_M **Comments :** coordination message		
Parameter Name	**Parameter Type**	**Comments**
CM_content	IA5String	message content in clear text
Detailed Comments :		

III

Constraints Part

ASN.1 Type Constraint Declaration

Constraint Name : MSG_HDR_receive
(MSG_TYPE: MessageIdentifier; FLAG: Flag; CALL_REF: Cr_value)

ASN1 Type : MessageHeader

Derivation Path :

Encoding Variation :

Comments : Constraint for receiving messages

Constraint Value

```
{
  protocolDiscriminator PX_PD,
  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
            }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : MSG_HDR_receive_any(FLAG: Flag; CALL_REF: Cr_value)

ASN1 Type : MessageHeader

Derivation Path :

Encoding Variation :

Comments : Constraint for receiving unexpected messages in PTC default trees

Constraint Value

```
{
  protocolDiscriminator PX_PD,
  callReference        CR1(FLAG,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
            }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : MSG_HDR_receive_COBI_SETUP
ASN1 Type : MessageHeader
Derivation Path :
Encoding Variation :
Comments : Constraint for receiving COBI SETUP messages with an unknown call reference value

Constraint Value

```
{
  protocolDiscriminator PX_PD,
  callReference        CR2,                    −− call reference with unknown value
  messageType {
              message_type     COBI_SU,              −− COBI 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
            }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : MSG_HDR_send(MSG_TYPE: MessageIdentifier;FLAG: Flag; CALL_REF: Cr_value)
ASN1 Type : MessageHeader
Derivation Path :
Encoding Variation :
Comments : Constraint for sending messages

Constraint Value

```
{
  protocolDiscriminator PX_PD,
  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          '0'B,     −− message instruction field not significant
              spare_34         '00'B,
              action_indicator '10'B     −− value without significance
            }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CR1(FLAG: Flag; CALL_REF: Cr_value)
ASN1 Type	: CallReference
Derivation Path	:
Encoding Variation	:
Comments	: Constraint for sending and receiving

Constraint Value

```
{
  bits5_8   '0000'B, -- fixed value
  cr_length '0011'B, -- length = 3
  cr_flag   FLAG,    -- parametrized flag
  cr_value  CALL_REF -- parametrized value
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CR2
ASN1 Type	: CallReference
Derivation Path	:
Encoding Variation	:
Comments	: Constraint for receiving SETUP messages

Constraint Value

```
{
  bits5_8   '0000'B, -- fixed value
  cr_length '0011'B, -- length = 3
  cr_flag   '0'B,    -- originator
  cr_value  ?        -- any call reference value
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: IE_HDR_receive(IE_ID: IEIdentifier)
ASN1 Type	: IEHeader
Derivation Path	:
Encoding Variation	:
Comments	: Constraint for receiving information elements

Constraint Value

```
{
  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
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: IE_HDR_send(IE_ID: IEIdentifier)
ASN1 Type	: IEHeader
Derivation Path	:
Encoding Variation	:
Comments	: Constraint for sending information elements

Constraint Value

```
{
  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
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CAU_R1
ASN1 Type	: Cause
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint

Constraint Value

```
{
  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
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CAU_S1(CAU_VAL: Cause_value)
ASN1 Type	: Cause
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint, Parametrized cause value

Constraint Value

```
{
  iEHeader     IE_HDR_send(Cause_ID),
  iELength     '00000000000000010'B,
  extension_o5 '1'B,
  spare_567    '000'B,
  location     '0000'B, −− user
  extension_o6 '1'B,
  cause_value  CAU_VAL  −− parametrized cause value
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CDPN_R
ASN1 Type	: CalledPartyNumber
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint

Constraint Value

```
{
  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
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CDPS_R
ASN1 Type	: CalledPartySubaddress
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint

Constraint Value

```
{
  iEHeader          IE_HDR_receive(Called_party_subaddress_ID),
  iELength          ’00000000000?????’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
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CGPN_R
ASN1 Type : CallingPartyNumber
Derivation Path :
Encoding Variation :
Comments : Receive constraint

Constraint Value

```
{
  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
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : FIE_R_ANY
ASN1 Type : Facility
Derivation Path :
Encoding Variation :
Comments : Receive constraint

Constraint Value

```
{
  iEHeader       IE_HDR_receive(Facility_ID),
  iELength       ?,
  extension_o3   '1'B,
  spare_05       '00'B,
  protocol_profile PX_Prot_Profile,
  aPDUs          ?
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: FIE_R_APDU(apdu: APDUs)
ASN1 Type	: Facility
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint

Constraint Value

```
{
  iEHeader        IE_HDR_receive(Facility_ID),
  iELength        ?,
  extension_o3    '1'B,
  spare_05        '00'B,
  protocol_profile PX_Prot_Profile,
  aPDUs           SUPERSET({apdu})
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: FIE_S1(ACT_APDU: APDUs)
ASN1 Type	: Facility
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint

Constraint Value

```
{
  iEHeader IE_HDR_send(Facility_ID),
  iELength CALCULATE_FIE_LENGTH(ACT_APDU),
  extension_o3 '1'B,
  spare_05 '00'B,
  protocol_profile PX_Prot_Profile,
  aPDUs  {ACT_APDU}
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: NI_R
ASN1 Type	: NotificationIndicator
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint
Constraint Value	

{
iEHeader IE_HDR_receive(Notification_indicator_ID),
iELength ?, −− maximum length application dependent
contents ? −− any value
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CP_R1
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for CALL PROCEEDING messages
Constraint Value	
iEs_CALL_PROCEEDING {}	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CP_S1
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint; used for CALL PROCEEDING messages
Constraint Value	
iEs_CALL_PROCEEDING{}	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CN_R1
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for CONNECT messages
Constraint Value	

iEs_CONNECT
{
facilities SUPERSET({ }) IF_PRESENT,
notificationIndicator *
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CN_S1
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint; used for CONNECT messages
Constraint Value	
iEs_CONNECT {}	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: FC_R1(apdu: APDUs)
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for Receive constraint; used for FACILITY messages
Constraint Value	

iEs_FACILITY
{
facilities SUPERSET({FIE_R_APDU(apdu)}),
notificationIndicator NI_R IF_PRESENT
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: FC_S1(apdu: APDUs)
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint; used for FACILITY messages
Constraint Value	

iEs_FACILITY
{
facilities {FIE_S1(apdu)}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: RL_R1
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for RELEASE messages
Constraint Value	

iEs_RELEASE
{
causes {
cause CAU_R1
},
facilities SUPERSET({ }) IF_PRESENT,
notificationIndicator *
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: RL_S1(CAU_VAL: Cause_value)
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint; used for RELEASE messages
Constraint Value	

iEs_RELEASE
{
causes {
cause CAU_S1(CAU_VAL) −− parametrized cause value
}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: RC_R1
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for RELEASE COMPLETE messages
Constraint Value	

iEs_RELEASE_COMPLETE
{
causes {
cause CAU_R1 IF_PRESENT
}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: RC_S1(CAU_VAL: Cause_value)
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint; used for RELEASE COMPLETE messages
Constraint Value	

iEs_RELEASE_COMPLETE
{
causes {
cause CAU_S1(CAU_VAL) −− parametrized cause value
}
}	

Detailed Comments	:

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

ASN.1 Type Constraint Declaration	
Constraint Name	: SU_R_NO_APDU
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for SETUP messages

Constraint Value

```
iEs_COBI_SETUP
{
  facilities                SUPERSET({FIE_R_ANY}) IF_PRESENT,
  calledPartyNumber           CDPN_R IF_PRESENT,
  calledPartySubaddress         CDPS_R IF_PRESENT,
  callingPartyNumber          CGPN_R IF_PRESENT,
  notificationIndicator       NI_R IF_PRESENT
}
```

Detailed Comments : Valid SETUP message, the Facility information element may be present but shall not contain APDUs mentioned in the test purposes. Therefore this constraint shall only be used as second alternative in a set of receive events.

ASN.1 Type Constraint Declaration	
Constraint Name	: SU_R_APDU(apdu: APDUs)
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Receive constraint; used for SETUP messages

Constraint Value

```
iEs_COBI_SETUP
{
  facilities                SUPERSET({FIE_R_APDU(apdu)}),
  calledPartyNumber           CDPN_R IF_PRESENT,
  calledPartySubaddress         CDPS_R IF_PRESENT,
  callingPartyNumber          CGPN_R IF_PRESENT,
  notificationIndicator       NI_R IF_PRESENT
}
```

Detailed Comments : Valid SETUP message including an APDU in a Facility information element

ASN.1 Type Constraint Declaration	
Constraint Name	: SU_S_NO_APDU
ASN1 Type	: InformationElements
Derivation Path	:
Encoding Variation	:
Comments	: Send constraint; used for SETUP messages
Constraint Value	
iEs_COBI_SETUP { }	
Detailed Comments	:

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

ASN.1 Type Constraint Declaration

Constraint Name : Call_S1

ASN1 Type : NetworkRelevantObjectDescription

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
{  objectReference  1,
   objectActionInd  clearCall,
   objectStatus  mandatory,
   objectClassId  call_OID,
   objectArgument
      call_Argument
      {  localPEPId  1001,
         remotePEPId  2001,
         serviceReference  3001,
         directCallAssociationIds  {4001},
         remoteCallAssociationIds  { 5001},
         bearerIdList  { PX_BearerId_V },
         telecomsServiceType  unspecified__,
         callPermissions '00000000'B
      }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: Call_R1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference ?,
  objectActionInd ?,
  objectStatus ?,
  objectClassId call_OID,
  objectArgument
     call_Argument
     { localPEPId ?,
        remotePEPId ?,
        serviceReference *,
        directCallAssociationIds ?,
        remoteCallAssociationIds *,
        bearerIdList *,
        telecomsServiceType ?,
        callPermissions ?
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: DirectCallAssociation_S1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference 5001,
  objectActionInd clearCall,
  objectStatus conditional,
  objectClassId directCallAssociation_OID,
  objectArgument
     directCallAssociation_Argument { remotePEPId 2001 }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: DirectCallAssociation_R1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference   ?,
  objectActionInd  ?,
  objectStatus  conditional,
  objectClassId  directCallAssociation_OID,
  objectArgument
     directCallAssociation_Argument ? −− Remote PEP ID
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: LocalPartyEP_S1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference  1001,
  objectActionInd  clearCall,
  objectStatus  mandatory,
  objectClassId  localPartyEP_OID,
  objectArgument
     localPartyEP_Argument
     { partyAddress  PX_PrecPEP_Address,
        partyOwnerPEPId  1001,
        partyType  initiator,
        partyStatus  confirmed
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: LocalPartyEP_R1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference ?,
  objectActionInd ?,
  objectStatus mandatory,
  objectClassId localPartyEP_OID,
  objectArgument
     localPartyEP_Argument
     { partyAddress PX_PrecPEP_Address,
        partyOwnerPEPId ?,
        associatedResourcePEPIds *,
        associatedPEPIds *,
        partyType initiator,
        partyStatus ?
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RemotePartyEP_S1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference 2001,
  objectActionInd clearCall,
  objectStatus mandatory,
  objectClassId remotePartyEP_OID,
  objectArgument
     remotePartyEP_Argument
     { partyAddress PX_SuccPEP_Address,
        partyOwnerPEPId 1001,
        partyType receiver,
        partyStatus confirmed
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RemotePartyEP_R1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference ?,
  objectActionInd ?,
  objectStatus mandatory,
  objectClassId remotePartyEP_OID,
  objectArgument
    remotePartyEP_Argument
    { partyAddress PX_SuccPEP_Address,
      partyOwnerPEPId ?,
      associatedResourcePEPIds *,
      associatedPEPIds *,
      partyType receiver,
      partyStatus ?
    }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RemoteCallAssociation_S1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference 5001,
  objectActionInd clearCall,
  objectStatus conditional,
  objectClassId remoteCallAssociation_OID,
  objectArgument
    remoteCallAssociation_Argument
    { localPEPId 1001,
      remotePEPId 2001
    }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RemoteCallAssociation_R1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference ?,
  objectActionInd ?,
  objectStatus conditional,
  objectClassId remoteCallAssociation_OID,
  objectArgument
     remoteCallAssociation_Argument
     { localPEPId ?,
        remotePEPId ?
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: ServiceComponent_S1
ASN1 Type	: NetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference 3001,
  objectActionInd clearCall,
  objectStatus mandatory,
  objectClassId serviceComponent_OID,
  objectArgument
     serviceComponent_Argument
     { callPEPId 1,
        communicationConfiguration biDirectional
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_S1
ASN1 Type	: ModifiedNetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ operation  modifyAttributes,
  objectReference  3001,
  objectActionInd  clearCall,
  modifiedArgument
     serviceComponent_Argument
     { callPEPId                1,
       communicationConfiguration  biDirectional
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_S2
ASN1 Type	: ModifiedNetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ operation  deleteObject,
  objectReference  3001,
  objectActionInd  clearCall
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_R1
ASN1 Type	: ModifiedNetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ operation modifyAttributes, objectReference ?, objectActionInd ?, modifiedArgument ? }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_R2
ASN1 Type	: ModifiedNetworkRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ operation deleteObject, objectReference ?, objectActionInd ? }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: ServiceComponent_EE_S1
ASN1 Type	: EndToEndRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ objectReference 3001,
  objectActionInd clearCall,
  objectStatus mandatory,
  objectClassId serviceComponent_OID,
  objectArgument
     serviceComponent_Argument
     { callPEPId 1,
        communicationConfiguration biDirectional
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_EE_S1
ASN1 Type	: ModifiedEndToEndRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ operation modifyAttributes,
  objectReference 3001,
  objectActionInd clearCall,
  modifiedArgument
     serviceComponent_Argument
     { callPEPId 1,
        communicationConfiguration biDirectional
     }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_EE_S2
ASN1 Type	: ModifiedEndToEndRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ operation deleteObject, objectReference 3001, objectActionInd clearCall }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_EE_R1
ASN1 Type	: ModifiedEndToEndRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ operation modifyAttributes, objectReference ?, objectActionInd ?, modifiedArgument ? }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: ServCompModified_EE_R2
ASN1 Type	: ModifiedEndToEndRelevantObjectDescription
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
{ operation deleteObject, objectReference ?, objectActionInd ? }	
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CallDesc_S1
ASN1 Type	: CallDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ networkRelevantPart
  { Call_S1,
    LocalPartyEP_S1,
    RemotePartyEP_S1,
    DirectCallAssociation_S1,
    RemoteCallAssociation_S1,
    ServiceComponent_S1
  },
 endToEndRelevantPart
  {
    ServiceComponent_EE_S1
  }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallDesc_R1
ASN1 Type	: CallDescription
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ networkRelevantPart
  { Call_R1,
    LocalPartyEP_R1,
    RemotePartyEP_R1,
    DirectCallAssociation_R1,
    RemoteCallAssociation_R1 IF_PRESENT,
    ServiceComponent_S1 IF_PRESENT
  },
 endToEndRelevantPart
  {
    *
  }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_S1
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

{ modifiedNetworkRelevantPart
{
ServCompModified_S1
}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_S2
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

{ modifiedNetworkRelevantPart
{
ServCompModified_S2
}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_S3
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ modifiedNetworkRelevantPart
  {
    ServCompModified_S1
  },
  modifiedEndToEndRelevantPart
  {
    ServCompModified_EE_S1
  }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_S4
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ modifiedNetworkRelevantPart
  {
    ServCompModified_S1
  },
  modifiedEndToEndRelevantPart
  {
    ServCompModified_EE_S2
  }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_R1
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

{ modifiedNetworkRelevantPart
{
ServCompModified_R1
},
modifiedEndToEndRelevantPart {*}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_R2
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

{ modifiedNetworkRelevantPart
{
ServCompModified_R2
},
modifiedEndToEndRelevantPart {*}
}	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_R3
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ modifiedNetworkRelevantPart
  {
    ?
  },
  modifiedEndToEndRelevantPart
  {
    ServCompModified_EE_R1
  }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallChangedPar_R4
ASN1 Type	: CallChangedParameter
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
{ modifiedNetworkRelevantPart
  {
    ?
  },
  modifiedEndToEndRelevantPart
  {
    ServCompModified_EE_R2
  }
}
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallEstInvAPDU_R

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  ?,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId   ?,
                        succeedingSideCallSegId  0 },
       callDescription         CallDesc_R1,
       bearerEstablAddress     ?,
       awaitCompleteIndicator   ?,
       parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallEstInvAPDU_R1

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  ?,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  ?,
                        succeedingSideCallSegId 0 },
       callDescription         CallDesc_R1,
       bearerEstablAddress     ?,
       awaitCompleteIndicator   FALSE,
       parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstInvAPDU_R2
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  ?,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  ?,
                        succeedingSideCallSegId 0 },
       callDescription         CallDesc_R1,
       bearerEstablAddress     ?,
       awaitCompleteIndicator   TRUE,
       parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstInvAPDU_S1(invID: InvokeId)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  invID,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  1,
                        succeedingSideCallSegId 0 },
       callDescription         CallDesc_S1,
       bearerEstablAddress     PX_BearerEstAddr_Pre,
       awaitCompleteIndicator   FALSE,
       parameterActionIndicator clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallEstInvAPDU_S2(invID: InvokeId)

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  invID,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  1,
                        succeedingSideCallSegId 0 },
       callDescription          CallDesc_S1,
       bearerEstablAddress      PX_BearerEstAddr_Pre,
       awaitCompleteIndicator   TRUE,
       parameterActionIndicator clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallEstInvAPDU_S3(invID: InvokeId; CallDesc: CallDescription)

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  invID,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  1,
                        succeedingSideCallSegId 0 },
       callDescription          CallDesc,
       bearerEstablAddress      PX_BearerEstAddr_Pre,
       awaitCompleteIndicator   FALSE,
       parameterActionIndicator clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstInvAPDU_S4(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callEstablish_APDUs
 callEstablish_Invoke
  { invokeId  invID,
    opcode   global callEstablish_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       callDescription          CallDesc_S1,
       bearerEstablAddress      PX_BearerEstAddr_Pre,
       awaitCompleteIndicator   FALSE,
       parameterActionIndicator clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstResAPDU_S1(invID: InvokeId; PreCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callEstablish_APDUs
 callEstablish_ReturnResult
  { invokeId  invID,
    result { opcode   global callEstablish_OID,
             result
             {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                                 succeedingSideCallSegId −1 },
                callDescription          CallDesc_S1,
                parameterActionIndicator clearCallAndItsInformationModel,
                bearerEstablAddress      PX_BearerEstAddr_Succ
             }
           }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallEstResAPDU_R1(invID: InvokeId)

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callEstablish_APDUs
 callEstablish_ReturnResult
  { invokeId  invID,
    result { opcode   global callEstablish_OID,
             result
             {  callSegmentId  { precedingSideCallSegId  1,
                                 succeedingSideCallSegId ? },
                callDescription         CallDesc_R1,
                parameterActionIndicator ?,
                bearerEstablAddress     *
             }
           }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallEstErrAPDU_S1(invID: InvokeId; PreCSegId: INTEGER; ErrCode: OId; Loc: Location)

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callEstablish_APDUs
 callEstablish_ReturnError
  { invokeId  invID,
    errcode   global ErrCode,
    parameter
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId −1 },
       location        Loc,
       callDescription  −
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstErrAPDU_R1(invID: InvokeId; SucCSegId: INTEGER; Loc: Location; ErrCode: OId)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callEstablish_APDUs
 callEstablish_ReturnError
  { invokeId  invID,
    errcode   global ErrCode,
    parameter
    {  callSegmentId  { precedingSideCallSegId  1,
                        succeedingSideCallSegId SucCSegId },
       location        Loc,
       callDescription  *
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallProcInvAPDU_S1(invID: InvokeId; PreCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callProceeding_APDUs
 callProceeding_Invoke
  { invokeId  invID,
    opcode   global callProceeding_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId −1 },
       bearerEstablAddress      PX_BearerEstAddr_Succ,
       parameterActionIndicator clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallProcInvAPDU_R1
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callProceeding_APDUs
 callProceeding_Invoke
  { invokeId  ?,
    opcode   global callProceeding_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  1,
                        succeedingSideCallSegId ? },
       bearerEstablAddress      PX_BearerEstAddr_Pre,
       parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallRelInvAPDU_S1(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER; Loc: Location; Cau_val: CauseValue)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callRelease_APDUs
 callRelease_Invoke
  { invokeId  invID,
    opcode   global callRelease_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       releaseCause  { causeValue Cau_val,
                       location   Loc },
       parameterActionIndicator   clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallRelInvAPDU_R1(PreCSegId, SuccCSegId: INTEGER; Cau_val: CauseValue)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callRelease_APDUs
 callRelease_Invoke
  { invokeId  ?,
    opcode   global callRelease_OID,
    argument
    {  callSegmentId { precedingSideCallSegId  PreCSegId,
                       succeedingSideCallSegId SuccCSegId },
      releaseCause  { causeValue Cau_val,
                      location   ? },
      parameterActionIndicator   ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallRelResAPDU_S1(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callRelease_APDUs
 callRelease_ReturnResult
  { invokeId  invID,
    result { opcode   global callRelease_OID,
             result
             {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                                 succeedingSideCallSegId SuccCSegId },
                parameterActionIndicator  clearCallAndItsInformationModel
             }
           }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallRelResAPDU_R1(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callRelease_APDUs
 callRelease_ReturnResult
  { invokeId  invID,
    result { opcode   global callRelease_OID,
             result
             {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                                 succeedingSideCallSegId SuccCSegId },
                parameterActionIndicator  ?
             }
           }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallCompInvAPDU_S1(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callComplete_APDUs
 callComplete_Invoke
  { invokeId  invID,
    opcode   global callComplete_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
      parameterActionIndicator  clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallCompInvAPDU_R1(invID: InvokeId; PreCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callComplete_APDUs
  callComplete_Invoke
    { invokeId  invID,
      opcode   global callComplete_OID,
      argument
      {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                          succeedingSideCallSegId −1 },
        parameterActionIndicator  ?
      }
    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_S1(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callStatus_APDUs
  callStatus_Invoke
    { invokeId  invID,
      opcode   global callStatus_OID,
      argument
      {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                          succeedingSideCallSegId SuccCSegId },
        callChangedParameter    { CallChangedPar_S2 },
        parameterActionIndicator clearCallAndItsInformationModel
      }
    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_S2(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  invID,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       callChangedParameter    { CallChangedPar_S1 },
       parameterActionIndicator clearCallAndItsInformationModel
     }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_S3(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  invID,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       callChangedParameter    { CallChangedPar_S4 },
       parameterActionIndicator clearCallAndItsInformationModel
     }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_S4(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  invID,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       callChangedParameter    { CallChangedPar_S3 },
       parameterActionIndicator clearCallAndItsInformationModel
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_R1(PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  ?,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       callChangedParameter     { CallChangedPar_R2 },
       parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallStatInvAPDU_R2(PreCSegId, SuccCSegId: INTEGER)

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  ?,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
      callChangedParameter     { CallChangedPar_R1 },
      parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : CallStatInvAPDU_R3(PreCSegId, SuccCSegId: INTEGER)

ASN1 Type : APDUs

Derivation Path :

Encoding Variation :

Comments :

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  ?,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
      callChangedParameter     { CallChangedPar_R4 },
      parameterActionIndicator ?
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_R4(PreCSegId, SuccCSegId: INTEGER)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
callStatus_APDUs
 callStatus_Invoke
  { invokeId  ?,
    opcode   global callStatus_OID,
    argument
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                        succeedingSideCallSegId SuccCSegId },
       callChangedParameter     { CallChangedPar_R3 },
       parameterActionIndicator ?
     }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RejectAPDU_S1(invID: InvokeId)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
general_APDUs
 general_Reject
  { invokedId invID,
    problem   invoke resourceLimitation
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: RejectAPDU_S2(invID: InvokeId)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

general_APDUs
  general_Reject
  { invokedId invID,
  problem returnResult resultResponseUnexpected
  }	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: RejectAPDU_S3(invID: InvokeId)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

general_APDUs
  general_Reject
  { invokedId invID,
  problem returnError unexpectedError
  }	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: RejectAPDU_R1
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	

general_APDUs
  general_Reject
  { invokedId ?,
  problem ?
  }	

Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstInvAPDU_ERR(invID: InvokeId; ParActInd: ParameterActionIndicator)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
error_APDUs
 error_Invoke
  { invokeId  invID,
    opcode   global callEstablish_OID,
    argument estInv
    {  callSegmentId  { precedingSideCallSegId  1,
                        succeedingSideCallSegId 0 },
       callDescription          CallDesc_S1,
       bearerEstablAddress      PX_BearerEstAddr_Pre,
       awaitCompleteIndicator   FALSE,
       parameterActionIndicator ParActInd,
       unrecognised             UnrecognisedParameter
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallEstResAPDU_ERR(invID: InvokeId; PreCSegId: INTEGER; ParActInd: ParameterActionIndicator)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
error_APDUs
 error_ReturnResult
  { invokeId  invID,
    result { opcode   global callEstablish_OID,
             result
             {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                                 succeedingSideCallSegId −1 },
                callDescription          CallDesc_S1,
                parameterActionIndicator ParActInd,
                bearerEstablAddress      PX_BearerEstAddr_Succ,
                unrecognised             UnrecognisedParameter
             }
           }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallProcInvAPDU_ERR(invID: InvokeId; PreCSegId: INTEGER; ParActInd: ParameterActionIndicator)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
error_APDUs
 error_Invoke
  { invokeId  invID,
    opcode   global callProceeding_OID,
    argument proInv
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                succeedingSideCallSegId −1 },
      bearerEstablAddress     PX_BearerEstAddr_Succ,
      parameterActionIndicator ParActInd,
      unrecognised            UnrecognisedParameter
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallCompInvAPDU_ERR(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER; ParActInd: ParameterActionIndicator)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
error_APDUs
 error_Invoke
  { invokeId  invID,
    opcode   global callComplete_OID,
    argument comInv
    {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                succeedingSideCallSegId SuccCSegId },
      parameterActionIndicator ParActInd,
      unrecognised            UnrecognisedParameter
    }
  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallStatInvAPDU_ERR(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER; ParActInd: ParameterActionIndicator)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
error_APDUs
  error_Invoke
    { invokeId  invID,
      opcode   global callStatus_OID,
      argument staInv
      {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                          succeedingSideCallSegId SuccCSegId },
         callChangedParameter    { CallChangedPar_S1 },
         parameterActionIndicator ParActInd,
         unrecognised             UnrecognisedParameter
      }
    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: CallRelInvAPDU_ERR(invID: InvokeId; PreCSegId, SuccCSegId: INTEGER; ParActInd: ParameterActionIndicator)
ASN1 Type	: APDUs
Derivation Path	:
Encoding Variation	:
Comments	:

Constraint Value

```
error_APDUs
  error_Invoke
    { invokeId  invID,
      opcode   global callRelease_OID,
      argument relInv
      {  callSegmentId  { precedingSideCallSegId  PreCSegId,
                          succeedingSideCallSegId SuccCSegId },
         releaseCause  { causeValue normalCallClearing,
                         location   user },
         parameterActionIndicator   ParActInd,
         unrecognised               UnrecognisedParameter
      }
    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration	
Constraint Name	: UnrecognisedParameter
ASN1 Type	: Unrecognised
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
’01010’B	
Detailed Comments	: Replace with other code, if this one is not unrecognisable enough

PDU Constraint Declaration			
Constraint Name : Proceed_Call			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Proceed the call by sending a CallProceed invoke APDU"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Accept_Call			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Accept the call by sending a CallEstablish return result APDU"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Complete_Call			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Complete the call by sending a CallComplete invoke APDU"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call1			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location user, error code userBusy"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call2			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location networkLocalCallSegment, error code noUserResponding"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call3			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location networkLocalCallSegment, error code noAnswerFromUser"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call4			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location user, error code callRejected"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call5			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location networkLocalCallSegment, error code destinationOutOfOrder"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call6			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location networkNonLocalCallSegment, error code networkOutOfOrder"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call7			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location networkLocalCallSegment, error code temporaryFailure"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Reject_Call8			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Reject the call by sending a CallEstablish return error APDU indicating location networkLocalCallSegment, error code userNotReachable"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Release_Call1			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Release the call by sending a CallRelease invoke APDU indicating CauseValue normalCallClearing, release the transport mechanism, if necessary"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Release_Call2			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Release the call by sending a CallRelease invoke APDU indicating CauseValue callDescriptionNotAccepted, release the transport mechanism, if necessary"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Release_Call3			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Release the call by sending a CallRelease invoke APDU indicating CauseValue temporaryFailure, release the transport mechanism, if necessary"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_Call1			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Send a CallStatus invoke APDU indicating in the modifiedNetworkRelevantPart of the callChanged parameter deleteObject (modifiedArgument absent)"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_Call2			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Send a CallStatus invoke APDU indicating in the modifiedNetworkRelevantPart of the callChanged parameter modifyAttributes (modifiedArgument present)"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_Call3			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Send a CallStatus invoke APDU indicating in the modifiedEndToEndRelevantPart of the callChanged parameter deleteObject (modifiedArgument absent)"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Status_Call4			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Send a CallStatus invoke APDU indicating in the modifiedEndToEndRelevantPart of the callChanged parameter modifyAttributes (modifiedArgument present)"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_Call_FALSE			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Set up the call by sending a CallEstablish invoke APDU with awaitCompleteIndicator set to FALSE"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : Setup_Call_TRUE			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments :			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Set up the call by sending a CallEstablish invoke APDU with awaitCompleteIndicator set to TRUE"		
Detailed Comments :			

ASN.1 PDU Constraint Declaration
Constraint Name : COBI_SETUP(IEs: InformationElements)
PDU Type : DSS2_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Constraint for receiving SETUP PDUs
Constraint Value

{
messageHeader MSG_HDR_receive_COBI_SETUP,
messageLength CALCULATE_MSG_LENGTH(IEs),
informationElements IEs −− parametrized set of information elements
}

Detailed Comments :

ASN.1 PDU Constraint Declaration	
Constraint Name	: Any(FLAG: Flag; CALL_REF: Cr_value)
PDU Type	: DSS2_PDU
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for receiving unexpected PDUs in PTC default trees

Constraint Value

```
{
  messageHeader       MSG_HDR_receive_any(FLAG,CALL_REF),
  messageLength       ?, −− any message length value
  informationElements  *  −− any set of information elements or empty
}
```

Detailed Comments :

ASN.1 PDU Constraint Declaration	
Constraint Name	: Mr(MSG_TYPE: MessageIdentifier; FLAG: Flag; CALL_REF: Cr_value; IEs: InformationElements)
PDU Type	: DSS2_PDU
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: Constraint for receiving PDUs

Constraint Value

```
{
  messageHeader       MSG_HDR_receive(MSG_TYPE,FLAG,CALL_REF),
  messageLength       CALCULATE_MSG_LENGTH(IEs),
  informationElements  IEs −− parametrized set of information elements
}
```

Detailed Comments :

ASN.1 PDU Constraint Declaration	
Constraint Name	: Ms(MSG_TYPE: MessageIdentifier; FLAG: Flag; CALL_REF: Cr_value; IEs: InformationElements)
PDU Type	: DSS2_PDU
Derivation Path	:
Encoding Rule Name	:
Encoding Variation	:
Comments	: 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
}
```

Detailed Comments :

CM Constraint Declaration		
Constraint Name : R_CallEstInv		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the receipt of a CallEstablish invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"R_CallEstInv"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallEstInv1		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallEstablish invoke APDU message, AwaitCompletion = FALSE		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallEstInv1"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallEstInv2		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallEstablish invoke APDU message, AwaitCompletion = TRUE		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallEstInv2"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallEstRes		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallEstablish return result APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallEstRes"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallEstErr(Loc: Location; ErrCode: OId)		
CM Type : CP_M_Data		
Derivation Path :		
Comments : To trigger the sending of a CallEstablish return error APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallEstErr"	
location	Loc	
error	ErrCode	
cause	–	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallProcInv		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallProceeding invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallProcInv"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallRelInv(Loc: Location; Cau_val: CauseValue)		
CM Type : CP_M_Data		
Derivation Path :		
Comments : To trigger the sending of a CallRelease invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallRelInv"	
location	Loc	
error	–	
cause	Cau_val	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallCompInv		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallComplete invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallCompInv"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallStatInv1		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallStatus invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallStatInv1"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallStatInv2		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallStatus invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallStatInv1"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallStatInv3		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallStatus invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallStatInv1"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CallStatInv4		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CallStatus invoke APDU message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"S_CallStatInv1"	
Detailed Comments :		

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

IV

Dynamic Part

Test Case Dynamic Behaviour

Test Case Name : CC_111_01

Group : CE/INI/V/

Purpose : Ensure that the IUT in state CC0,
is able to send a callEstablish invoke APDU towards the succeeding CC entity containing the parameter callSegmentId with the succeedingSideCallSegId set to the Null value and the bearerEstablishmentAddress containing the number of the terminal or network node connected to the preceding CC entity.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.1.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC0_OUT			preamble CC0
3		CPA1!CP_M	S_CallEstInv1		(1)
4		START TWAIT			
5		[PC_COBI]			(2)
6		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value, INV_ID := GET_INVOKE_ID(CallEstInvAPDU_R1), PREC_SEG_ID := GET_SEGMENT_ID(CallEstInvAPDU_R1,0)) CANCEL TWAIT	COBI_SETUP(SU_R_APDU(CallEstInvAPDU_R1))	(P)	(3)
7		L0!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1)		(4)
8		L0!DSS2_PDU	Ms(CN,F1,CREF,CN_S1)		(5)
9		+CC_PO_TM(F1)			postamble CC0
10		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value)	COBI_SETUP(SU_R_NO_APDU)		(6)
11		L0!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1)		(4)
12		L0!DSS2_PDU	Ms(CN,F1,CREF,CN_S1)		(5)
13		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallEstInvAPDU_R1), PREC_SEG_ID := GET_SEGMENT_ID(CallEstInvAPDU_R1,0)) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallEstInvAPDU_R1))	(P)	(7)

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		+CC_PO_TM(F1)			postamble CC0
15		?TIMEOUT TWAIT		(I)	no response
16		+CC_PO_TM(F1)			postamble CC0
17		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	COBI_SETUP(INVALID_R)		(8)
18		L0!DSS2_PDU	Ms(RC,F1,CREF,RC_S1(C16))		(9)
19		+END_PTC1			(4)
20		?TIMEOUT TWAIT		(I)	no response
21		+END_PTC1			(4)
22		[NOT PC_COBI]			(10)
23		(CREF := Dummy_CR)			
24		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallEstInvAPDU_R1), PREC_SEG_ID := GET_SEGMENT_ID(CallEstInvAPDU_R1,0)) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallEstInvAPDU_R1))	(P)	(7)
25		+CC_PO_TM(F1)			postamble CC0
26		?TIMEOUT TWAIT		(I)	no response
27		+END_PTC1			(11)

Detailed Comments :
(1) PTC1 is prompted to send a callEstablish invoke APDU.
(2) The bearer independent connection−oriented transport mechanism is used.
(3) A SETUP message inluding a callEstablish invoke APDU is received.
(4) A CALL PROCEEDING message is sent.
(5) A CONNECT message is sent.
(6) A SETUP message without a callEstablish invoke APDU is received.
(7) A FACILITY message inluding a callEstablish invoke APDU is received.
(8) An invalid SETUP message is received.
(9) A RELEASE COMPLETE message is sent.
(10) The bearer independent connectionless transport mechanism is used.
(11) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : CC_111_02

Group : CE/INI/V/

Purpose : Ensure that the IUT in state CC3,
is able to send a callComplete invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		CPA1!CP_M START T701	S_CallCompInv		(1)
4		L0?DSS2_PDU CANCEL T701	Mr(FAC,F0,CREF,FC_R1(CallCompInvAPDU_R1(INV_ID,PREC_SEG_ID)))	(P)	(2)
5		+CC_PO(F1)			postamble CC0
6		?TIMEOUT T701		(I)	no response
7		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callComplete invoke APDU.
(2) A callComplete invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_112_01

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a reject APDU that is correlated to a callComplete invoke APDU,
sends a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value temporaryFailure.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.5.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(TRUE)			preamble CC7
3		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(RejectAPDU_S1(INV_ID)))		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure))) CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callComplete reject APDU is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_02

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC2, on receipt of a callEstablish return result APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_ERR(INV_ID,PREC_SEG_ID,clearCallAndItsInformationModel)))		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?))) CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callEstablish return result APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_03

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC2, on receipt of a callEstablish return result APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_ERR(INV_ID,PREC_SEG_ID,discardApduAndReject)))		(1)
4		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
5		+CC_PO(F1)			postamble CC0
6		?TIMEOUT TAC		(F)	no response
7		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callEstablish return result APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_112_04

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC2, on receipt of a callEstablish return result APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject,

does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_ERR(INV_ID,PREC_SEG_ID,discardApduNoReject)))		(1)
4		?TIMEOUT TNOAC		(P)	no response
5		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callEstablish return result APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_05

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC2, on receipt of a callEstablish return result APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication, does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_ERR(INV_ID,PREC_SEG_ID,discardParameterAndPassApduToApplication)))		(1)
4		?TIMEOUT TNOAC		(P)	no response
5		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callEstablish return result APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_06

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC2, on receipt of a callEstablish return result APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_ERR(INV_ID,PREC_SEG_ID,ignoreParameterAndPassApduToApplication)))		(1)
4		?TIMEOUT TNOAC		(P)	no response
5		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callEstablish return result APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_07

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC1, on receipt of a callProceeding invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC1(FALSE)			preamble CC1
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_ERR(INV_ID,PREC_SEG_ID,clearCallAndItsInformationModel)))		(1)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?))) CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	(P)	(2)
6		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
7		+CC_PO_TM(F1)			postamble CC0
8		?TIMEOUT TAC		(F)	no response
9		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callProceeding invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_08

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC1, on receipt of a callProceeding invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC1(FALSE)			preamble CC1
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_ERR(INV_ID,PREC_SEG_ID,discardApduAndReject)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
6		+CC_PO(F1)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callProceeding invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_112_09

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC1, on receipt of a callProceeding invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC1(FALSE)			preamble CC1
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_ERR(INV_ID,PREC_SEG_ID,discardApduNoReject)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callProceeding invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_10

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC1, on receipt of a callProceeding invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC1(FALSE)			preamble CC1
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_ERR(INV_ID,PREC_SEG_ID,discardParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callProceeding invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_11

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC1, on receipt of a callProceeding invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC1(FALSE)			preamble CC1
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_ERR(INV_ID,PREC_SEG_ID,ignoreParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callProceeding invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_12

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,clearCallAndItsInformationModel)))		(1)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?))) CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	(P)	(2)
6		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
7		+CC_PO_TM(F1)			postamble CC0
8		?TIMEOUT TAC		(F)	no response
9		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_13

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardApduAndReject)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
6		+CC_PO(F1)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_112_14

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardApduNoReject)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_15

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_112_16

Group : CE/INI/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,ignoreParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_113_01

Group : CE/INI/IO/

Purpose : Ensure that the IUT in CC1 on receipt of a callProceeding invoke APDU after a callEstablish return result APDU containing the same CallSegmentId, ignores this callProceeding invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC1(FALSE)			preamble CC1
3		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_S1(INV_ID,PREC_SEG_ID)))		(1)
4		(INV_ID := RANDOM_INVOKEID())			
5		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_S1(INV_ID,PREC_SEG_ID)))		(2)
6		?TIMEOUT TNOAC		(P)	no response
7		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callEstablish return result APDU is sent.
(2) A callProceeding invoke APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_113_02

Group : CE/INI/IO/

Purpose : Ensure that the IUT in state CC2, on expiry of timer T710, sends a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value recoveryOnTimerExpiry.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.1.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		START T_MIN(PX_T710MIN) , START T_MAX(PX_T710MAX)			(1)
4		?TIMEOUT T_MIN			(2)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,recoveryOnTimerExpiry))) CANCEL T_MAX	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,recoveryOnTimerExpiry)))	(P)	(3)
6		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(4)
7		+CC_PO_TM(F1)			postamble CC0
8		?TIMEOUT T_MAX		(F)	(5)
9		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) Two timers are started for the minimum and the maximum value allowed for T710.
(2) Minimum duration allowed for T710 has passed by. Wait for callRelease APDU.
(3) A callrelease APDU is received.
(4) Maximum duration allowed for T710 has passed by. Test failed.
(5) A callRelease return result message is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_121_01

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4,
is able to send callProceeding invoke APDU containing a precedingSideCallSegId including the value received in the callEstablish invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.2.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M START T703	S_CallProcInv		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a CallProceeding invoke APDU to avoid the expiry of T703 at the PTC side.
(2) A callProceeding invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_02

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4, and the stored value of "Await complete indicator" is TRUE is able to send callEstablish return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(TRUE)			preamble CC4
3		CPA1!CP_M START T703	S_CallEstRes		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return result APDU.
(2) A callEstablish return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_03

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5, and the stored value of "Await complete indicator" is TRUE is able to send callEstablish return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(TRUE)			preamble CC5
3		CPA1!CP_M START T710	S_CallEstRes		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return result APDU.
(2) A callEstablish return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_04

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4, and the stored value of "Await complete indicator" is FALSE

is able to send callEstablish return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M START T703	S_CallEstRes		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return result APDU.
(2) A callEstablish return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_05

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5, and the stored value of "Await complete indicator" is FALSE

is able to send callEstablish return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M START T710	S_CallEstRes		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return result APDU.
(2) A callEstablish return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_06

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the received call description was not accepted by the CC signalling service user,
is able to send callEstablish return error APDU containing callDescriptionNotAccepted error value, optionally containing an alternative call description.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_NotAcc)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,callDescriptionNotAcceptted),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,callDescriptionNotAccepted)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an unacceptable callDescription parameter is sent.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_07

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the received call description was not accepted by the CC signalling service user,
is able to send callEstablish return error APDU containing callDescriptionNotAccepted error value, optionally containing an alternative call description.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_NotAcc)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(2)
5		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,callDescriptionNotAccepted)))	(P)	(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T710		(F)	no response
8		+CC_PO(F0)			postamble CC0
9		?TIMEOUT T703		(F)	no response
10		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an unacceptable callDescription parameter is sent.
(2) A callProceeding invoke APDU is received.

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Test Case Dynamic Behaviour
Detailed Comments : … (3) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour					
Test Case Name : CC_121_08					
Group : CE/REC/V/					
Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the called user is busy, is able to send callEstablish return error APDU containing userBusy error value, optionally containing an alternative call description.					
Configuration : CONFIG1					
Default : CC_DEF(F0)					
Comments : subclause 9.6.2					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(user,userBusy_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,userBusy_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,userBusy_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0
Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU. (2) A callEstablish return error APDU is received.					

Test Case Dynamic Behaviour

Test Case Name : CC_121_09

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the called user is busy,
is able to send callEstablish return error APDU containing userBusy error value, optionally containing an alternative call description.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(user,userBusy_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,userBusy_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_10

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the received call description containing an unallocated number, is able to send callEstablish return error APDU containing unallocatedNumber error value.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_UnalNum)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,unallocatedNumber_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,unallocatedNumber_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an unallocated number in the callDescription parameter is sent.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_11

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the received call description containing an unallocated number, is able to send callEstablish return error APDU containing unallocatedNumber error value.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_UnalNum)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(2)
5		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,unallocatedNumber_OID)))	(P)	(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T710		(F)	no response
8		+CC_PO(F0)			postamble CC0
9		?TIMEOUT T703		(F)	no response
10		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an unallocated number in the callDescription parameter is sent.
(2) A callProceeding invoke APDU is received.
(3) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_12

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the called user did not respond,
is able to send callEstablish return error APDU containing noUserResponding error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkLocalCallSegment,noUserResponding_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,noUserResponding_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,noUserResponding_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_13

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the called user did not respond,
is able to send callEstablish return error APDU containing noUserResponding error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkLocalCallSegment,noUserResponding_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,noUserResponding_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_14

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call no answer from the called user,
is able to send callEstablish return error APDU containing noAnswerFromUser error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkLocalCallSegment,noAnswerFromUser_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,noAnswerFromUser_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,noAnswerFromUser_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_15

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call no answer from the called user,
is able to send callEstablish return error APDU containing noAnswerFromUser error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkLocalCallSegment,noAnswerFromUser_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,noAnswerFromUser_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_16

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the called user rejected the call,
is able to send callEstablish return error APDU containing callRejected error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(user, callRejected_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,callRejected_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,callRejected_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_17

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the called user rejected the call,
is able to send callEstablish return error APDU containing callRejected error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(user,callRejected_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,callRejected_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_18

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the called user's equipment is out of order,
is able to send callEstablish return error APDU containing destinationOutOfOrder error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkLocalCallSegment,destinationOutOfOrder_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,destinationOutOfOrder_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,destinationOutOfOrder_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_19

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the called user's equipment is out of order,
is able to send callEstablish return error APDU containing destinationOutOfOrder error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkLocalCallSegment,destinationOutOfOrder_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,destinationOutOfOrder_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_20

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because an address contained in the received call description was incomplete, is able to send callEstablish return error APDU containing addressIncomplete error value.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_IncAddr)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,addressIncomplete_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,addressIncomplete_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an incomplete address in the callDescription parameter is sent.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_21

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because an address contained in the received call description was incomplete, is able to send callEstablish return error APDU containing addressIncomplete error value.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_IncAddr)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(2)
5		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,addressIncomplete_OID)))	(P)	(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T710		(F)	no response
8		+CC_PO(F0)			postamble CC0
9		?TIMEOUT T703		(F)	no response
10		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an incomplete address in the callDescription parameter is sent.
(2) A callProceeding invoke APDU is received.
(3) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_22

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because an equipment in the network is out of order,
is able to send callEstablish return error APDU containing networkOutOfOrder error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkNonLocalCallSegment,networkOutOfOrder_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,networkOutOfOrder_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,networkOutOfOrder_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_23

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because an equipment in the network is out of order,
is able to send callEstablish return error APDU containing networkOutOfOrder error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkNonLocalCallSegment,networkOutOfOrder_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,networkOutOfOrder_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_24

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because a temporary failure has occurred,
is able to send callEstablish return error APDU containing temporaryFailure error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkLocalCallSegment,temporaryFailure_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,temporaryFailure_OID), 1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,temporaryFailure_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_25

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because a temporary failure has occurred,
is able to send callEstablish return error APDU containing temporaryFailure error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkLocalCallSegment,temporaryFailure_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,temporaryFailure_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_26

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call because the called user is not reachable,
is able to send callEstablish return error APDU containing userNotReachable error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkLocalCallSegment,userNotReachable_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,userNotReachable_OID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,userNotReachable_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : temporaryFailure

Test Case Dynamic Behaviour

Test Case Name : CC_121_27

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call because the called user is not reachable,
is able to send callEstablish return error APDU containing userNotReachable error value.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkLocalCallSegment,userNotReachable_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,userNotReachable_OID)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_28

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call and the Error is first generated in a user's terminal,
is able to send callEstablish return error APDU containing the Location parameter value coded as 'user'.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(user,userBusy_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,user,?),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,user,?)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_29

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call and the Error is first generated in a user's terminal,
is able to send callEstablish return error APDU containing the Location parameter value coded as 'user'.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(user,userBusy_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,user,?)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_30

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call and the Error is first generated in a network node,
is able to send callEstablish return error APDU containing the Location parameter value coded as 'networkLocalCallSegment'.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_IncAddr)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,networkLocalCallSegment,?),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,networkLocalCallSegment,?)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an incomplete address in the callDescription parameter is sent.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_31

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call and the Error is first generated in a network node,
is able to send callEstablish return error APDU containing the Location parameter value coded as 'networkLocalCallSegment'.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID(), PTC_ACTIVATED := FALSE)			
3		L0!DSS2_PDU START T703	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S3(INV_ID,PX_CallDescr_IncAddr)))		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(2)
5		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,networkLocalCallSegment,?)))	(P)	(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T710		(F)	no response
8		+CC_PO(F0)			postamble CC0
9		?TIMEOUT T703		(F)	no response
10		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing an incomplete address in the callDescription parameter is sent.
(2) A callProceeding invoke APDU is received.
(3) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_32

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC4 in order to report a negative result for the establishment of the call and the Error is passed on by a CC entity to another call segment,
is able to send callEstablish return error APDU containing the Location parameter value coded as 'networkNonLocalCallSegment'.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(networkNonLocalCallSegment,networkOutOfOrder_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,networkNonLocalCallSegment,?),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,networkNonLocalCallSegment,?)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T703		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_121_33

Group : CE/REC/V/

Purpose : Ensure that the IUT in CC5 in order to report a negative result for the establishment of the call and the Error is passed on by a CC entity to another call segment,
is able to send callEstablish return error APDU containing the Location parameter value coded as 'networkNonLocalCallSegment'.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START T710	S_CallEstErr(networkNonLocalCallSegment,networkOutOfOrder_OID)		(1)
4		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,networkNonLocalCallSegment,?)))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT T710		(F)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU.
(2) A callEstablish return error APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_122_01

Group : CE/REC/IV/

Purpose : Ensure that the IUT in CC6 on receipt of a callComplete invoke APDU containing unknown CallSegmentId,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_S1(INV_ID,2,SUCC_SEG_ID)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callComplete invoke APDU containing an unknown CallSegmentId is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_02

Group : CE/REC/IV/

Purpose : Ensure that the IUT in CC4 on receipt of a callEstablish invoke APDU containing a CallSegmentId which is already in use,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S4(INV_ID,1,0)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing a CallSegmentId which is already in use is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_03

Group : CE/REC/IV/

Purpose : Ensure that the IUT in CC5 on receipt of a callEstablish invoke APDU containing a CallSegmentId which is already in use,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S4(INV_ID,1,SUCC_SEG_ID)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing a CallSegmentId which is already in use is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_04

Group : CE/REC/IV/

Purpose : Ensure that the IUT in CC6 on receipt of a callEstablish invoke APDU containing a CallSegmentId which is already in use,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S4(INV_ID,1,SUCC_SEG_ID)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing a CallSegmentId which is already in use is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_05

Group : CE/REC/IV/

Purpose : Ensure that the IUT in CC7 on receipt of a callEstablish invoke APDU containing a CallSegmentId which is already in use,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S4(INV_ID,1,SUCC_SEG_ID)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing a CallSegmentId which is already in use is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_06

Group : CE/REC/IV/

Purpose : Ensure that the IUT in CC0 on receipt of a reject APDU that is correlated to a callEstablish return error APDU,
takes no action.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.5.7

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START T703	S_CallEstErr(user,userBusy_OID)		(1)
4		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(2)
5		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,SUCC_SEG_ID,?,?)))	(P)	(3)
6		+SUBTREE_122_06			
7		?TIMEOUT T710		(F)	no response
8		+CC_PO(F0)			postamble CC0
9		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstErrAPDU_R1(INV_ID,?,?,?),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstErrAPDU_R1(INV_ID,?,?,?)))	(P)	(3)
10		+SUBTREE_122_06			
11		?TIMEOUT T703		(F)	no response
12		+CC_PO(F0)			postamble CC0
		SUBTREE_122_06			
13		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(RejectAPDU_S3(INV_ID)))		(4)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		?TIMEOUT TNOAC		(P)	no response
15		+CC_PO_TM(F0)			postamble CC0
Detailed Comments : (1) PTC1 is prompted to send a callEstablish return error APDU. (2) A callProceeding invoke APDU may be received before the callEstablish return error APDU. (3) A callEstablish return error APDU is received. (4) A reject APDU is sent.					

Test Case Dynamic Behaviour

Test Case Name : CC_122_07

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC0, on receipt of a callEstablish invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID())			
3		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_ERR(INV_ID,clearCallAndItsInformationModel)))		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,?,?)), SUCC_SEG_ID := GET_SEGMENT_ID(CallRelInvAPDU_R1(1,?,?),1)) CANCEL TAC	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,?,?)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO_TM(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_08

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC0, on receipt of a callEstablish invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID())			
3		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_ERR(INV_ID,discardApduAndReject)))		(1)
4		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F1,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
5		+CC_PO_TM(F0)			postamble CC0
6		?TIMEOUT TAC		(F)	no response
7		+CC_PO_TM(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_122_09

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC0, on receipt of a callEstablish invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG0

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		(INV_ID := RANDOM_INVOKEID())			
3		L0!DSS2_PDU (PTC_ACTIVATED := FALSE) START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_ERR(INV_ID,discardApduNoReject)))		(1)
4		?TIMEOUT TNOAC		(P)	no response
5		+CC_PO_TM(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_10

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC0, on receipt of a callEstablish invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		(INV_ID := RANDOM_INVOKEID())			
3		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_ERR(INV_ID,discardParameterAndPassApduToApplication)))		(1)
4		CPA1!CP_M START T703	S_CallEstRes		(2)
5		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(3)
6		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(4)
7		+CC_PO(F0)			postamble CC0
8		?TIMEOUT T710		(F)	no response
9		+CC_PO(F0)			postamble CC0
10		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(4)
11		+CC_PO(F0)			postamble CC0
12		?TIMEOUT T703		(F)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU with an unrecognised parameter is sent.
(2) PTC1 is prompted to send a callEstablish return result APDU.
(3) A callProceeding invoke APDU may be received before the callEstablish return result APDU.
(4) A callEstablish return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_122_11

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC0, on receipt of a callEstablish invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		(INV_ID := RANDOM_INVOKEID())			
3		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_ERR(INV_ID,ignoreParameterAndPassApduToApplication)))		(1)
4		CPA1!CP_M START T703	S_CallEstRes		(2)
5		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(3)
6		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(4)
7		+CC_PO(F0)			postamble CC0
8		?TIMEOUT T710		(F)	no response
9		+CC_PO(F0)			postamble CC0
10		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(4)
11		+CC_PO(F0)			postamble CC0
12		?TIMEOUT T703		(F)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU with an unrecognised parameter is sent.
(2) PTC1 is prompted to send a callEstablish return result APDU.
(3) A callProceeding invoke APDU may be received before the callEstablish return result APDU.
(4) A callEstablish return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_122_12

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC6, on receipt of a callComplete invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,clearCallAndItsInformationModel)))		(1)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?))) CANCEL TAC	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?)))	(P)	(2)
6		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
7		+CC_PO_TM(F0)			postamble CC0
8		?TIMEOUT TAC		(F)	no response
9		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callComplete invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_13

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC6, on receipt of a callComplete invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,discardApduAndReject)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F1,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
6		+CC_PO(F0)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callComplete invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_122_14

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC6, on receipt of a callComplete invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,discardApduNoReject)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callComplete invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_15

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC6, on receipt of a callComplete invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,discardParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callComplete invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_122_16

Group : CE/REC/IV/

Purpose : Ensure that the IUT in state CC6, on receipt of a callComplete invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication, does not respond.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,ignoreParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callComplete invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_211_01

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC6,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedNetworkRelevantPart with operation set to "deleteObject", with an objectReference but not containing the modifiedArgument.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		CPA1!CP_M START TWAIT	S_CallStatInv1		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R1(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_02

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC6,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedNetworkRelevantPart with operation set to "modifyAttributes".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		CPA1!CP_M START TWAIT	S_CallStatInv2		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R2(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_03

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedNetworkRelevantPart with operation set to "deleteObject", with an objectReference but not containing the modifiedArgument.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		CPA1!CP_M START TWAIT	S_CallStatInv1		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R1(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_04

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedNetworkRelevantPart with operation set to "modifyAttributes".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		CPA1!CP_M START TWAIT	S_CallStatInv2		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R2(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_05

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC6,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedEndToEndRelevantPart with operation set to "deleteObject", with an objectReference but not containing the modifiedArgument.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		CPA1!CP_M START TWAIT	S_CallStatInv3		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R3(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_06

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC6,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedEndToEndRelevantPart with operation set to "modifyAttributes".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		CPA1!CP_M START TWAIT	S_CallStatInv4		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R4(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_07

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedEndToEndRelevantPart with operation set to "deleteObject", with an objectReference but not containing the modifiedArgument.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		CPA1!CP_M START TWAIT	S_CallStatInv3		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R3(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_211_08

Group : SC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callStatus invoke APDU with the element callChangedParameter containing the modifiedEndToEndRelevantPart with operation set to "modifyAttributes".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		CPA1!CP_M START TWAIT	S_CallStatInv4		(1)
4		L0?DSS2_PDU CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallStatInvAPDU_R4(1,SUCC_SEG_ID)))	(P)	(2)
5		+CC_PO(F0)			postamble CC0
6		?TIMEOUT TWAIT		(I)	no response
7		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callStatus invoke APDU.
(2) A callStatus invoke APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_222_01

Group : SC/REC/IV/

Purpose : Ensure that the IUT in state CC3, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,clearCallAndItsInformationModel)))		(1)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?))) CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	(P)	(2)
6		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
7		+CC_PO_TM(F1)			postamble CC0
8		?TIMEOUT TAC		(F)	no response
9		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_222_02

Group : SC/REC/IV/

Purpose : Ensure that the IUT in state CC3, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardApduAndReject)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
6		+CC_PO(F1)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_222_03

Group : SC/REC/IV/

Purpose : Ensure that the IUT in state CC3, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardApduNoReject)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_222_04

Group : SC/REC/IV/

Purpose : Ensure that the IUT in state CC3, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_222_05

Group : SC/REC/IV/

Purpose : Ensure that the IUT in state CC3, on receipt of a callStatus invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication, does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,ignoreParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callStatus invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_01

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC2,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_02

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC3,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_03

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC4,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_04

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC5,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_05

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC6,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_06a

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_06b

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "normalCallClearing".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,normalCallClearing)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_07

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC3,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "callDescriptionNotAccepted".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkLocalCallSegment,callDescriptionNotAccepted_)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,callDescriptionNotAccepted_))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,callDescriptionNotAccepted_)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_08

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC4,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "callDescriptionNotAccepted".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkLocalCallSegment,callDescriptionNotAccepted_)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,callDescriptionNotAccepted_))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,callDescriptionNotAccepted_)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_09

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC5,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "callDescriptionNotAccepted".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkLocalCallSegment,callDescriptionNotAccepted_)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,callDescriptionNotAccepted_))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,callDescriptionNotAccepted_)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_10

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC2,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : temporaryFailure

Test Case Dynamic Behaviour

Test Case Name : CC_311_11

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC3,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_12

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC4,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkNonLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_13

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC5,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkNonLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_14

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC6,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkNonLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_15a

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_311_15b

Group : CC/INI/V/

Purpose : Ensure that the IUT in state CC7,
is able to send a callRelease invoke APDU with the releaseCause containing the parameter causeValue with the value "temporaryFailure".

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		CPA1!CP_M_Data START TWAIT	S_CallRelInv(networkNonLocalCallSegment,temporaryFailure)		(1)
4		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,temporaryFailure)))	(P)	(2)
5		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT TWAIT		(I)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_312_01

Group : CC/INI/IV/

Purpose : Ensure that the IUT in CC8 on receipt of a callEstablish invoke APDU containing a CallSegmentId which is already in use,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC8I(FALSE)			preamble CC8
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S4(INV_ID,1,SUCC_SEG_ID)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callEstablish invoke APDU containing a CallSegmentId which is already in use is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_321_01

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC2 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC2(FALSE)			preamble CC2
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID,−1,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,INV_FL,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,PREC_SEG_ID,−1)))	(P)	(2)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_321_02

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC3 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC3			preamble CC3
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID,−1,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,INV_FL,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,PREC_SEG_ID,−1)))	(P)	(2)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_321_03

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC4 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC4(FALSE)			preamble CC4
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,1,SUCC_SEG_ID,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F1,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,1,SUCC_SEG_ID)))	(P)	(2)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_321_04

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC5 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC5(FALSE)			preamble CC5
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,1,SUCC_SEG_ID,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F1,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,1,SUCC_SEG_ID)))	(P)	(2)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_321_05

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC6 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC6			preamble CC6
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,1,SUCC_SEG_ID,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F1,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,1,SUCC_SEG_ID)))	(P)	(2)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_321_06a

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC7 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID,−1,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F0,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,PREC_SEG_ID,−1)))	(P)	(2)
6		+CC_PO_TM(F1)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_321_06b

Group : CC/REC/V/

Purpose : Ensure that the IUT in CC7 on receipt of a callRelease invoke APDU, is able to send a callRelease return result APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.7.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,1,SUCC_SEG_ID,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F1,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,1,SUCC_SEG_ID)))	(P)	(2)
6		+CC_PO_TM(F0)			postamble CC0
7		?TIMEOUT T708		(F)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_322_01a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in CC7 on receipt of a callRelease invoke APDU containing unknown CallSegmentId,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID,−2,user,normalCallClearing)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU containing an unknown CallSegmentId is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_01b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in CC7 on receipt of a callRelease invoke APDU containing unknown CallSegmentId,
ignores this APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,2,SUCC_SEG_ID,user,normalCallClearing)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU containing an unknown CallSegmentId is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_03a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in CC0 on receipt of a reject APDU that is correlated to a callRelease return result APDU,
takes no action.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.5.8

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID,−1,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F0,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,PREC_SEG_ID,−1)))	(P)	(2)
6		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(RejectAPDU_S2(INV_ID)))		(3)
7		?TIMEOUT TNOAC		(P)	no response
8		+CC_PO_TM(F1)			postamble CC0
9		?TIMEOUT T708		(F)	no response
10		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.
(3) A reject APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_03b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in CC0 on receipt of a reject APDU that is correlated to a callRelease return result APDU,
takes no action.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.5.8

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L1!DSS2_PDU START T708	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,1,SUCC_SEG_ID,user,normalCallClearing)))		(1)
5		L0?DSS2_PDU CANCEL T708	Mr(FAC,F1,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,1,SUCC_SEG_ID)))	(P)	(2)
6		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(RejectAPDU_S2(INV_ID)))		(3)
7		?TIMEOUT TNOAC		(P)	no response
8		+CC_PO_TM(F0)			postamble CC0
9		?TIMEOUT T708		(F)	no response
10		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU is sent.
(2) A callRelease return result APDU is received.
(3) A reject APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_04a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,clearCallAndItsInformationModel)))		(1)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?))) CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	(P)	(2)
6		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(3)
7		+CC_PO_TM(F1)			postamble CC0
8		?TIMEOUT TAC		(F)	no response
9		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_04b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to clearCallAndItsInformationModel,
sends a callRelease invoke APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F0,CREF,FC_S1(CallStatInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,clearCallAndItsInformationModel)))		(1)
5		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?))) CANCEL TAC	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?)))	(P)	(2)
6		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(3)
7		+CC_PO_TM(F0)			postamble CC0
8		?TIMEOUT TAC		(F)	no response
9		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.
(2) A callRelease invoke APDU is received.
(3) A callRelease return result APDU is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_05a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.61

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardApduAndReject)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F0,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
6		+CC_PO(F1)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_322_05b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduAndReject, sends a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.61

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TAC	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,discardApduAndReject)))		(1)
5		L0?DSS2_PDU CANCEL TAC	Mr(FAC,F1,CREF,FC_R1(RejectAPDU_R1))	(P)	(2)
6		+CC_PO(F0)			postamble CC0
7		?TIMEOUT TAC		(F)	no response
8		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.
(2) A reject APDU is received.

Test Case Dynamic Behaviour

Test Case Name : CC_322_06a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardApduNoReject)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_06b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardApduNoReject, does not send a reject APDU.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,discardApduNoReject)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_07a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,discardParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_07b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to discardParameterAndPassApduToApplication, does not respond.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,discardParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_08a

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication,
does not respond.

Configuration : CONFIG1

Default : CC_DEF(F1)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			create PTC1
2		+CC_PR_CC7O(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,PREC_SEG_ID,−1,ignoreParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.

Test Case Dynamic Behaviour

Test Case Name : CC_322_08b

Group : CC/REC/IV/

Purpose : Ensure that the IUT in state CC7, on receipt of a callRelease invoke APDU with an unrecognised parameter and parameterActionIndicator set to ignoreParameterAndPassApduToApplication, does not respond.

Configuration : CONFIG1

Default : CC_DEF(F0)

Comments : subclause 9.8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			create PTC1
2		+CC_PR_CC7I(FALSE)			preamble CC7
3		(INV_ID := RANDOM_INVOKEID())			
4		L0!DSS2_PDU START TNOAC	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_ERR(INV_ID,1,SUCC_SEG_ID,ignoreParameterAndPassApduToApplication)))		(1)
5		?TIMEOUT TNOAC		(P)	no response
6		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) A callRelease invoke APDU with an unrecognised parameter is sent.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC0_OUT

Group : MTC_Steps/

Objective : preamble to preamble to the Call idle state CC0 for incoming calls.

Default :

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ESTABLISH_UNDERLYING_LAYERS()]			
2		[NOT ESTABLISH_UNDERLYING_LAYERS()]		I	

Detailed Comments : 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.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC0_IN
Group : MTC_Steps/
Objective : preamble to the Call idle state C00 for outgoing calls.
Default : CC_DEF(F0)
Comments : preamble to establish the transport mechanism.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ESTABLISH_UNDERLYING_LAYERS()]			
2		[PC_COBI]			(1)
3		(CREF := RANDOM_CREF())			(2)
4		L0!DSS2_PDU START TAC	Ms(COBI_SU,F0,CREF, SU_S_NO_APDU)		(3)
5		L0?DSS2_PDU	Mr(CPR,F1,CREF,CP_R 1)		(4)
6		L0?DSS2_PDU CANCEL TAC	Mr(CN,F1,CREF,CN_R1)	(P)	(5)
7		?TIMEOUT TAC		F	
8		L0?DSS2_PDU CANCEL TAC	Mr(CN,F1,CREF,CN_R1)	(P)	(5)
9		?TIMEOUT TAC		F	
10		[NOT PC_COBI]			(6)
11		(CREF := Dummy_CR)			(7)
12		[NOT ESTABLISH_UNDERLYING_LAYERS()]		I	

Detailed Comments : 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) The bearer independent connection−oriented transport mechanism is used.
(2) Random value to be used for the call reference are assigned.
(3) A valid CO−BI SETUP without APDU is sent.
(4) A CALL PROCEEDING message is received.
(5) A CONNECT message is received. The bearer independent connection−oriented transport mechanism is established.
(6) The bearer independent connectionless transport mechanism is used.
(7) The dummy call refernce is used.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC1(await_complete: BOOLEAN)
Group : MTC_Steps/
Objective : preamble to the Call initiated state CC1.
Default : CC_DEF(F1)
Comments : Use with PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_OUT			preamble CC0
2		[NOT await_complete]			
3		CPA1!CP_M	S_CallEstInv1		(1)
4		+SUBTREE_PR_CC1(CallEstInvAPDU_R1)			(2)
5		[await_complete]			
6		CPA1!CP_M	S_CallEstInv2		(3)
7		+SUBTREE_PR_CC1(CallEstInvAPDU_R2)			
		SUBTREE_PR_CC1(apdu: APDUs)			
8		START TWAIT			
9		[PC_COBI]			(4)
10		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value, INV_ID := GET_INVOKE_ID(apdu), PREC_SEG_ID := GET_SEGMENT_ID(apdu,0)) CANCEL TWAIT	COBI_SETUP(SU_R_APDU(apdu))	(P)	(5)
11		L0!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1)		(6)
12		L0!DSS2_PDU	Ms(CN,F1,CREF,CN_S1)		(7)
13		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value)	COBI_SETUP(SU_R_NO_APDU)		(8)
14		L0!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1)		(6)
15		L0!DSS2_PDU	Ms(CN,F1,CREF,CN_S1)		(7)
16		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(apdu), PREC_SEG_ID := GET_SEGMENT_ID(apdu,0)) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(apdu))	(P)	(9)

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		?TIMEOUT TWAIT		(I)	no response
18		+CC_PO_TM(F1)			postamble CC0
19		L0?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	COBI_SETUP(INVALID_R)	(F)	(10)
20		L0!DSS2_PDU	Ms(RC,F1,CREF,RC_S1(C16))		(11)
21		+END_PTC1			(12)
22		?TIMEOUT TWAIT		(I)	no response
23		+END_PTC1			(12)
24		[NOT PC_COBI]			(13)
25		(CREF := Dummy_CR)			
26		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(apdu), PREC_SEG_ID := GET_SEGMENT_ID(apdu,0)) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(apdu))	(P)	(9)
27		?TIMEOUT TWAIT		(I)	no response
28		+END_PTC1			(12)

Detailed Comments : (1) PTC1 is prompted to send a callEstablish APDU with the awaitCompletionIndicator set to FALSE.
(2) Subtree to wait for the callEstablish invoke APDU.
(3) PTC1 is prompted to send a callEstablish APDU with the awaitCompletionIndicator set to TRUE.
(4) The bearer independent connection−oriented transport mechanism is used.
(5) A SETUP message inluding a callEstablish invoke APDU is received.
(6) A CALL PROCEEDING message is sent.
(7) A CONNECT message is sent.
(8) A SETUP message without a callEstablish invoke APDU is received.
(9) A FACILITY message inluding a callEstablish invoke APDU is received.
(10) An invalid SETUP message is received.
(11) A RELEASE COMPLETE message is sent and the subtree is left.
(12) Test step to terminate all actions at PTC1.
(13) The bearer independent connectionless transport mechanism is used.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC2(await_complete: BOOLEAN)
Group : MTC_Steps/
Objective : preamble to the Outgoing call proceeding state CC2.
Default : CC_DEF(F1)
Comments : Use with PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC1(await_complete)			preamble CC1
2		(INV_ID2 := RANDOM_INVOKEID())			
3		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_S1(INV_ID2,PREC_SEG_ID)))		(1)

Detailed Comments : (1) A callProceeding invoke APDU is sent.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC3
Group : MTC_Steps/
Objective : preamble to the Call ready state CC3.
Default : CC_DEF(F1)
Comments : Use with PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC1(TRUE)			preamble CC1
2		(INV_ID2 := RANDOM_INVOKEID())			
3		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_S1(INV_ID2,PREC_SEG_ID)))		(1)
4		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_S1(INV_ID,PREC_SEG_ID)))		(2)

Detailed Comments : (1) A callProceeding invoke APDU is sent.
(2) A callEstablsih return result APDU is sent.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC4(await_complete: BOOLEAN)

Group : MTC_Steps/

Objective : preamble to the Call present state CC4.

Default : CC_DEF(F0)

Comments : Use with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble CC0
2		CPA1!CP_M (INV_ID := RANDOM_INVOKEID())	R_CallEstInv		(1)
3		[NOT await_complete]			
4		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S1(INV_ID)))		(2)
5		[await_complete]			
6		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S2(INV_ID)))		(3)

Detailed Comments : (1) The PTC is prompted to expect a callEstablish invoke APDU.
(2) A callEstablish invoke APDU with the awaitCompletion indicator set to FALSE is sent.
(3) A callEstablish invoke APDU with the awaitCompletion indicator set to TRUE is sent.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC5(await_complete: BOOLEAN)

Group : MTC_Steps/

Objective : preamble to the Incoming call proceeding state CC5.

Default : CC_DEF(F0)

Comments : Use with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble C00
2		CPA1!CP_M (INV_ID := RANDOM_INVOKEID())	R_CallEstInv		(1)
3		[NOT await_complete]			
4		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S1(INV_ID)))		(2)
5		+SUBTREE_PR_CC5			(3)
6		[await_complete]			
7		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S2(INV_ID)))		(4)
8		+SUBTREE_PR_CC5			(3)
		SUBTREE_PR_CC5			
9		CPA1!CP_M START T703	S_CallProcInv		(5)
10		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))	(P)	(6)
11		?TIMEOUT T703		(F)	no response
12		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) The PTC is prompted to expect a callEstablish invoke APDU.
(2) A callEstablish invoke APDU with the awaitCompletion indicator set to FALSE is sent.
(3) Subtree to bring the IUT fron CC4 to CC5.
(4) A callEstablish invoke APDU with the awaitCompletion indicator set to TRUE is sent.
(5) PTC1 is prompted to send a CallProceeding invoke APDU to avoid the expiry of T703 at the PTC side.
(6) A callProceeding invoke APDU is received.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC6
Group : MTC_Steps/
Objective : Preamble to the Await call completion state CC6.
Default : CC_DEF(F0)
Comments : Use with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble C00
2		CPA1!CP_M (INV_ID := RANDOM_INVOKEID())	R_CallEstInv		(1)
3		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S2(INV_ID)))		(2)
4		CPA1!CP_M START T703	S_CallProcInv		(3)
5		CPA1!CP_M	S_CallEstRes		(4)
6		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(5)
7		L0?DSS2_PDU CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(6)
8		?TIMEOUT T710		(I)	no response
9		+CC_PO(F0)			postamble CC0
10		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(6)
11		?TIMEOUT T703		(F)	no response
12		+CC_PO(F0)			postamble CC0

Detailed Comments :
(1) The PTC is prompted to expect a callEstablish invoke APDU.
(2) A callEstablish invoke APDU with the awaitCompletion indicator set to TRUE is sent.
(3) PTC1 is prompted to send a callProceeding invoke APDU to avoid the expiry of T703 at the PTC side.
(4) PTC1 is prompted to send a callEstablish return result APDU.
(5) A callProceeding invoke APDU is received.
(6) A callEstablish return result APDU is received.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC7I(await_complete: BOOLEAN)
Group : MTC_Steps/
Objective : preamble to the Call active state CC7 for an incoming call.
Default : CC_DEF(F0)
Comments : Use with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC0_IN			preamble C00
2		CPA1!CP_M (INV_ID := RANDOM_INVOKEID())	R_CallEstInv		(1)
3		[NOT await_complete]			
4		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S1(INV_ID)))		(2)
5		+SUBTREE_PR_CC7I_1			(3)
6		[await_complete]			
7		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S2(INV_ID)))		(4)
8		+SUBTREE_PR_CC7I_1			(3)
		SUBTREE_PR_CC7I_1			
9		CPA1!CP_M START T703	S_CallProcInv		(5)
10		CPA1!CP_M	S_CallEstRes		(6)
11		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1)) CANCEL T703, START T710	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(5)
12		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T710	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(7)
13		+SUBTREE_PR_CC7I_2			(8)
14		?TIMEOUT T710		(I)	no response
15		+CC_PO(F0)			postamble CC0
16		L0?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1)) CANCEL T703	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))	(P)	(9)
17		+SUBTREE_PR_CC7I_2			(8)
18		?TIMEOUT T703		(F)	no response

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		+CC_PO(F0)			postamble CC0
		SUBTREE_PR_CC7I_2			
20		[NOT await_complete]			
21		[await_complete]			
22		(INV_ID := RANDOM_INVOKEID())			
23		L0!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(10)

Detailed Comments :
(1) The PTC is prompted to expect a callEstablish invoke APDU.
(2) A CallEstablish invoke APDU with the awaitCompletion indicator set to FALSE is sent.
(3) Subtree to bring the IUT fron CC4 to CC7.
(4) A callEstablish invoke APDU with the awaitCompletion indicator set to TRUE is sent.
(5) PTC1 is prompted to send a callProceeding invoke APDU to avoid the expiry of T703 at the PTC side.
(6) PTC1 is prompted to send a callEstablish return result APDU.
(7) A callProceeding invoke APDU is received.
(8) Subtree to wait for the callComplete APDU, if the awaitCompletion was set to TRUE.
(9) A callEstablish return result APDU is received.
(10) A callComplete invoke APDU is sent.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC7O(await_complete: BOOLEAN)

Group : MTC_Steps/

Objective : preamble to the Call active state CC7 for an outgoing call.

Default : CC_DEF(F1)

Comments : Use with PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC1(await_complete)			preamble CC1
2		(INV_ID2 := RANDOM_INVOKEID())			
3		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_S1(INV_ID2,PREC_SEG_ID)))		(1)
4		L0!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_S1(INV_ID,PREC_SEG_ID)))		(2)
5		+SUBTREE_PR_CC7O(await_complete)			(3)
		SUBTREE_PR_CC7O(await_complete: BOOLEAN)			
6		[NOT await_complete]		(P)	
7		[await_complete]			
8		CPA1!CP_M START T701	S_CallCompInv		(4)
9		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallCompInvAPDU_R1(INV_ID,PREC_SEG_ID))) CANCEL T701	Mr(FAC,F0,CREF,FC_R1(CallCompInvAPDU_R1(INV_ID,PREC_SEG_ID)))	(P)	(5)
10		?TIMEOUT T701		(I)	no response
11		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) A callProceeding invoke APDU is sent.
(2) A callEstablsih return result APDU is sent.
(3) Subtree to bring the IUT to CC7.
(4) PTC1 is prompted to send a callComplete invoke APDU.
(5) A callComplete invoke APDU is received.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC8I(await_complete: BOOLEAN)

Group : MTC_Steps/

Objective : preamble to the Call release request state CC8.

Default : CC_DEF(F0)

Comments : Use with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC7I(await_complete)			preamble CC7
2		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
3		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?))) CANCEL TWAIT	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?)))	(P)	(2)
4		?TIMEOUT TWAIT		(I)	no response
5		+CC_PO(F0)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.

Test Step Dynamic Behaviour

Test Step Name : CC_PR_CC8O(await_complete: BOOLEAN)

Group : MTC_Steps/

Objective : preamble to the Call release request state CC8.

Default : CC_DEF(F1)

Comments : Use with PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_PR_CC7O(await_complete)			preamble CC7
2		CPA1!CP_M_Data START TWAIT	S_CallRelInv(user,normalCallClearing)		(1)
3		L0?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?))) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	(P)	(2)
4		?TIMEOUT TWAIT		(I)	no response
5		+CC_PO(F1)			postamble CC0

Detailed Comments : (1) PTC1 is prompted to send a callRelease invoke APDU.
(2) A callRelease invoke APDU is received.

Test Step Dynamic Behaviour

Test Step Name : CC_PO(FL: Flag)

Group : MTC_Steps/

Objective : To bring the IUT back to the Call idle state CC0.

Default : CC_DEF(FL)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+Init_SegmentID			(1)
2		(INV_ID := RANDOM_INVOKEID(), INV_FL := INVERSE(FL))			
3		L0!DSS2_PDU START T708	Ms(FAC,FL,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID, SUCC_SEG_ID,user,normalCallClearing)))		(2)
4		L0?DSS2_PDU CANCEL T708	Mr(FAC,INV_FL,CREF,FC_R1(CallRelResAPDU_R1(INV_ID,PREC_SEG_ID,SUCC_SEG_ID)))	(P)	(3)
5		+CC_PO_TM(FL)			(4)
6		?TIMEOUT T708		(I)	no response
7		+CC_PO_TM(FL)			(4)
		Init_SegmentID			
8		[FL = F0]			
9		(PREC_SEG_ID := 1)			
10		[FL = F1]			
11		(SUCC_SEG_ID := −1)			

Detailed Comments : (1) Subtree to assign values to the CallSegmentId.
(2) A callRelease invoke APDU is sent.
(3) A callRelease return result is received.
(4) postamble to release the transport mechanism.

Test Step Dynamic Behaviour

Test Step Name : CC_PO_TM(FL: Flag)

Group : MTC_Steps/

Objective : To release the tramsport mechanism.

Default :

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[PC_COBI]			(1)
2		L0!DSS2_PDU (INV_FL := INVERSE(FL)) START TAC	Ms(RL,FL,CREF,RL_S1 (C16))		(2)
3		L0?DSS2_PDU CANCEL TAC	Mr(RC,INV_FL,CREF,RC_R1)		(3)
4		+END_PTC1			(4)
5		L0?DSS2_PDU CANCEL TAC	Mr(RL,INV_FL,CREF,RL_R1)		(5)
6		+END_PTC1			(4)
7		?TIMEOUT TAC			no response
8		+END_PTC1			(4)
9		L0?OTHERWISE			(6)
10		+END_PTC1			(4)
11		[NOT PC_COBI]			(7)
12		+END_PTC1			(4)

Detailed Comments : (1) The bearer independent connection−oriented transport mechanism is used.
(2) A valid RELEASE message indicating the cause value 16 "Normal call clearing" is sent.
(3) A RELEASE COMPLETE message is received from the IUT.
(4) Test step to terminate all actions at PTC1.
(5) A RELEASE message is received from the IUT.
(6) An invalid event occurred.
(7) The bearer independent connectionless transport mechanism is used.

Test Step Dynamic Behaviour

Test Step Name : PTC1_PR_IN

Group : PTC1_Steps/

Objective : preamble to establish the undelying layers

Default :

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ESTABLISH_UNDERLYING_LAYERS()]			
2		[NOT ESTABLISH_UNDERLYING_LAYERS()]			

Detailed Comments : 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.

Test Step Dynamic Behaviour

Test Step Name : PTC1_PR_OUT
Group : PTC1_Steps/
Objective : preamble to establish the transport mechanism.
Default : PTC1_DEF(F0)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ESTABLISH_UNDERLYING_LAYERS()]			
2		[PC_COBI]			(1)
3		(CREF := RANDOM_CREF())			(2)
4		L1!DSS2_PDU START TWAIT	Ms(COBI_SU,F0,CREF, SU_S_NO_APDU)		(3)
5		L1?DSS2_PDU	Mr(CPR,F1,CREF,CP_R 1)		(4)
6		L1?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1)		(5)
7		L1?DSS2_PDU CANCEL TWAIT	Mr(CN,F1,CREF,CN_R1)		(5)
8		[NOT PC_COBI]			(6)
9		(CREF := Dummy_CR)			(7)
10		[NOT ESTABLISH_UNDERLYING_LAYERS()]			

Detailed Comments : 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) The bearer independent connection−oriented transport mechanism is used.
(2) Random value to be used for the call reference are assigned.
(3) A valid CO−BI SETUP without APDU is sent.
(4) A CALL PROCEEDING message is received.
(5) A CONNECT message is received. The bearer independent connection−oriented transport mechanism is established.
(6) The bearer independent connectionless transport mechanism is used.
(7) The dummy call refernce is used.

Test Step Dynamic Behaviour

Test Step Name : PTC1_PO(FL: Flag)

Group : PTC1_Steps/

Objective : To bring the IUT back to the Call idle state CC0 for PTC1.

Default :

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[PC_COBI]			(1)
2		L1!DSS2_PDU (INV_FL := INVERSE(FL)) START TAC	Ms(RL,FL,CREF,RL_S1 (C16))		(2)
3		L1?DSS2_PDU CANCEL TAC	Mr(RC,INV_FL,CREF,RC_R1)		(3)
4		?TIMEOUT TAC			no response
5		L1?OTHERWISE			(4)
6		[NOT PC_COBI]			(5)

Detailed Comments : (1) The bearer independent connection−oriented transport mechanism is used.
(2) A valid RELEASE message indicating the cause value 16 "Normal call clearing" is sent.
(3) A RELEASE COMPLETE message is received from the IUT.
(4) An invalid event occurred.
(5) The bearer independent connectionless transport mechanism is used.

Test Step Dynamic Behaviour

Test Step Name : PTC1_OUT
Group : PTC1_Steps/
Objective : Test step to initiate and handle outgoing calls (from the MTC's point of view).
Default : PTC1_DEF(F0)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_OUT			(1)
2		REPEAT MAINTREE UNTIL [END_FLAG]			(2)
		MAINTREE			
3		[PC_TRANSIT]			(3)
4		CPA1?CP_M	S_CallEstInv1		(4a)
5		(INV_ID := RANDOM_INVOKEID())			
6		L1!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S1(INV_ID)))		
7		CPA1?CP_M	S_CallEstInv2		(4b)
8		(INV_ID := RANDOM_INVOKEID())			
9		L1!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallEstInvAPDU_S2(INV_ID)))		
10		L1?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallProcInvAPDU_R1,1))	Mr(FAC,F1,CREF,FC_R1(CallProcInvAPDU_R1))		(5)
11		L1?DSS2_PDU (SUCC_SEG_ID := GET_SEGMENT_ID(CallEstResAPDU_R1(INV_ID),1))	Mr(FAC,F1,CREF,FC_R1(CallEstResAPDU_R1(INV_ID)))		(6)
12		CPA1?CP_M	S_CallCompInv		(7)
13		(INV_ID := RANDOM_INVOKEID())			
14		L1!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallCompInvAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		
15		CPA1?CP_M_Data (LOC := CP_M_Data.location, CAUSE_VALUE := CP_M_Data.cause, INV_ID := RANDOM_INVOKEID())	S_CallRelInv(?,?)		(8)
16		L1!DSS2_PDU	Ms(FAC,F0,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,1,SUCC_SEG_ID,LOC, CAUSE_VALUE)))		
17		L1?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(1, SUCC_SEG_ID,?)))	Mr(FAC,F1,CREF,FC_R1(CallRelInvAPDU_R1(1,SUCC_SEG_ID,?)))		(9)

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(FAC,F0,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,1,SUCC_SEG_ID)))		(10)
19		+PTC1_PO(F0)			postamble N0
20		L1?DSS2_PDU	Mr(RL,F1,CREF,RL_R1)		(11)
21		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(RC,F0,CREF,RC_S2)		(12)
22		L1?DSS2_PDU (END_FLAG:=TRUE)	Mr(RC,F1,CREF,RC_R1)		(13)
23		CPA1?CP_M (END_FLAG:=TRUE)	STOP_PTC		(14)
24		+PTC1_PO(F0)			postamble N0
25		[NOT PC_TRANSIT]			(15)
26		CPA1?CP_M	S_CallEstInv1		(4a)
27		O!DISPLAY	Setup_Call_FALSE		(16)
28		CPA1?CP_M	S_CallEstInv2		(4b)
29		O!DISPLAY	Setup_Call_TRUE		(16)
30		CPA1?CP_M	S_CallCompInv		(7)
31		O!DISPLAY	Complete_Call		(16)
32		CPA1?CP_M_Data	S_CallRelInv(?,normalCallClearing)		(8)
33		O!DISPLAY	Release_Call1		(16)
34		CPA1?CP_M_Data	S_CallRelInv(?,callDescriptionNotAccepted_)		(8)
35		O!DISPLAY	Release_Call2		(16)
36		CPA1?CP_M_Data	S_CallRelInv(?,temporaryFailure)		(8)
37		O!DISPLAY	Release_Call3		(16)
38		CPA1?CP_M (END_FLAG:=TRUE)	STOP_PTC		(14)

Detailed Comments : (1) preamble to establish the underlying layers and the transport mechanism.
(2) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of END_FLAG is FALSE.
(3) The IUT is a transit entity.
(4a) A coordination message prompting PTC1 to set up a call (awaitCompletion indicator set to FALSE) is received.
(4b) A coordination message prompting PTC1 to set up a call (awaitCompletion indicator set to TRUE) is received.
(5) A callProceeding invoke APDU is received.
(6) A callEstablish return result APDU is received.
(7) A coordination message prompting PTC1 to complete the call is received.
(8) A coordination message prompting PTC1 to release the call is received.
(9) A callRelease invoke APDU is received.

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Test Step Dynamic Behaviour
Detailed Comments : … (10) A callRelease return result APDU is sent. (11) A RELEASE message is received. (12) A RELEASE COMPLETE message is sent and the subtree is left. (13) A RELEASE COMPLETE message is received and the subtree is left. (14) A coordination message prompting PTC1 to stop its activity is received. (15) The IUT is a terminating entity. (16) Messages to prompt the test operator to perform actions at the IUT.

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(F1)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_IN			preamble CC0
2		REPEAT MAINTREE UNTIL [END_FLAG]			(1)
		MAINTREE			
3		[PC_TRANSIT]			(2)
4		CPA1?CP_M START TWAIT	R_CallEstInv		(3)
5		[PC_COBI]			(4)
6		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value, INV_ID := GET_INVOKE_ID(CallEstInvAPDU_R), PREC_SEG_ID := GET_SEGMENT_ID(CallEstInvAPDU_R,0)) CANCEL TWAIT	COBI_SETUP(SU_R_APDU(CallEstInvAPDU_R))		(5)
7		L1!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1)		(6)
8		L1!DSS2_PDU	Ms(CN,F1,CREF,CN_S1)		(7)
9		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value)	COBI_SETUP(SU_R_NO_APDU)		(8)
10		L1!DSS2_PDU	Ms(CPR,F1,CREF,CP_S1)		(6)
11		L1!DSS2_PDU	Ms(CN,F1,CREF,CN_S1)		(7)
12		L1?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallEstInvAPDU_R), PREC_SEG_ID := GET_SEGMENT_ID(CallEstInvAPDU_R,0)) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallEstInvAPDU_R))		(9)
13		L1?DSS2_PDU (CREF := DSS2_PDU.messageHeader.callReference.cr_value) CANCEL TWAIT	COBI_SETUP(INVALID_R)		(10)
14		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(RC,F1,CREF,RC_S1(C16))		(11)
15		[NOT PC_COBI]			(12)
16		(CREF := Dummy_CR)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L1?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallEstInvAPDU_R), PREC_SEG_ID := GET_SEGMENT_ID(CallEstInvAPDU_R,0)) CANCEL TWAIT	Mr(FAC,F0,CREF,FC_R1(CallEstInvAPDU_R))		(9)
18		CPA1?CP_M	S_CallProcInv		(13)
19		(INV_ID2 := RANDOM_INVOKEID())			
20		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallProcInvAPDU_S1(INV_ID2,PREC_SEG_ID)))		
21		CPA1?CP_M	S_CallEstRes		(14)
22		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallEstResAPDU_S1(INV_ID,PREC_SEG_ID)))		
23		CPA1?CP_M_Data (LOC := CP_M_Data.location, ERROR_CODE := CP_M_Data.error)	S_CallEstErr(?,?)		(15)
24		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallEstErrAPDU_S1(INV_ID,PREC_SEG_ID,ERROR_CODE,LOC)))		
25		CPA1?CP_M_Data (LOC := CP_M_Data.location, CAUSE_VALUE := CP_M_Data.cause, INV_ID := RANDOM_INVOKEID())	S_CallRelInv(?,?)		(16)
26		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallRelInvAPDU_S1(INV_ID,PREC_SEG_ID,−1,LOC,CAUSE_VALUE)))		
27		CPA1?CP_M (INV_ID := RANDOM_INVOKEID())	S_CallStatInv1		(17)
28		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		
29		CPA1?CP_M (INV_ID := RANDOM_INVOKEID())	S_CallStatInv2		(17)
30		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_S2(INV_ID,PREC_SEG_ID,−1)))		
31		CPA1?CP_M (INV_ID := RANDOM_INVOKEID())	S_CallStatInv3		(17)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
32		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_S3(INV_ID,PREC_SEG_ID,−1)))		
33		CPA1?CP_M (INV_ID := RANDOM_INVOKEID())	S_CallStatInv4		(17)
34		L1!DSS2_PDU	Ms(FAC,F1,CREF,FC_S1(CallStatInvAPDU_S4(INV_ID,PREC_SEG_ID,−1)))		
35		L1?DSS2_PDU (INV_ID := GET_INVOKE_ID(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))	Mr(FAC,F0,CREF,FC_R1(CallRelInvAPDU_R1(PREC_SEG_ID,−1,?)))		(18)
36		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(FAC,F1,CREF,FC_S1(CallRelResAPDU_S1(INV_ID,PREC_SEG_ID,−1)))		(19)
37		+PTC1_PO(F1)			postamble N0
38		L1?DSS2_PDU	Mr(RL,F0,CREF,RL_R1)		(20)
39		L1!DSS2_PDU (END_FLAG:=TRUE)	Ms(RC,F1,CREF,RC_S2)		(11)
40		L1?DSS2_PDU (END_FLAG:=TRUE)	Mr(RC,F0,CREF,RC_R1)		(21)
41		CPA1?CP_M (END_FLAG:=TRUE)	STOP_PTC		(23)
42		+PTC1_PO(F1)			postamble N0
43		[NOT PC_TRANSIT]			(23)
44		CPA1?CP_M	R_CallEstInv		(3)
45		CPA1?CP_M	S_CallProcInv		(13)
46		O!DISPLAY	Proceed_Call		(24)
47		CPA1?CP_M	S_CallEstRes		(14)
48		O!DISPLAY	Accept_Call		(24)
49		CPA1?CP_M_Data	S_CallEstErr(user,userBusy_OID)		(15)
50		O!DISPLAY	Reject_Call1		(24)
51		CPA1?CP_M_Data	S_CallEstErr(networkLocalCallSegment,noUserResponding_OID)		(15)
52		O!DISPLAY	Reject_Call2		(24)
53		CPA1?CP_M_Data	S_CallEstErr(networkLocalCallSegment,noAnswerFromUser_OID)		(15)
54		O!DISPLAY	Reject_Call3		(24)

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
55		CPA1?CP_M_Data	S_CallEstErr(user, callRejected_OID)		(15)
56		O!DISPLAY	Reject_Call4		(24)
57		CPA1?CP_M_Data	S_CallEstErr(networkLocalCallSegment,destinationOutOfOrder_OID)		(15)
58		O!DISPLAY	Reject_Call5		(24)
59		CPA1?CP_M_Data	S_CallEstErr(networkNonLocalCallSegment,networkOutOfOrder_OID)		(15)
60		O!DISPLAY	Reject_Call6		(24)
61		CPA1?CP_M_Data	S_CallEstErr(networkLocalCallSegment,temporaryFailure_OID)		(15)
62		O!DISPLAY	Reject_Call7		(24)
63		CPA1?CP_M_Data	S_CallEstErr(networkLocalCallSegment,userNotReachable_OID)		(15)
64		O!DISPLAY	Reject_Call8		(24)
65		CPA1?CP_M_Data	S_CallRelInv(?,normalCallClearing)		(8)
66		O!DISPLAY	Release_Call1		(24)
67		CPA1?CP_M_Data	S_CallRelInv(?,callDescriptionNotAccepted_)		(8)
68		O!DISPLAY	Release_Call2		(24)
69		CPA1?CP_M_Data	S_CallRelInv(?,temporaryFailure)		(8)
70		O!DISPLAY	Release_Call3		(24)
71		CPA1?CP_M	S_CallStatInv1		(17)
72		O!DISPLAY	Status_Call1		(24)
73		CPA1?CP_M	S_CallStatInv2		(17)
74		O!DISPLAY	Status_Call2		(24)
75		CPA1?CP_M	S_CallStatInv3		(17)
76		O!DISPLAY	Status_Call3		(24)
77		CPA1?CP_M	S_CallStatInv4		(17)
78		O!DISPLAY	Status_Call4		(24)
79		CPA1?CP_M (END_FLAG:=TRUE)	STOP_PTC		(25)

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) The IUT is a transit entity.
(3) A coordination message prompting PTC1 to expect a call Establish APDU is received.
(4) The bearer independent connection−oriented transport mechanism is used.

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Test Step Dynamic Behaviour
Detailed Comments : … (5) A SETUP message inluding a callEstablish invoke APDU is received. (6) A CALL PROCEEDING message is sent. (7) A CONNECT message is sent. (8) A SETUP message without a callEstablish invoke APDU is received. (9) A FACILITY message inluding a callEstablish invoke APDU is received. (10) An invalid SETUP message is received. (11) A RELEASE COMPLETE message is sent and the subtree is left. (12) The bearer independent connectionless transport mechanism is used. (13) A coordination message prompting PTC1 to send a callProceeding invoke APDU is received. (14) A coordination message prompting PTC1 to send a callEstablish return result APDU is received. (15) A coordination message prompting PTC1 to send a callEstablish return error APDU is received. (16) A coordination message prompting PTC1 to release the call is received. (17) A coordination message prompting PTC1 to send a callStatus invoke APDU is received. (18) A callRelease invoke APDU is received. (19) A callRelease return result APDU is sent. (20) A RELEASE message is received. (21) A RELEASE COMPLETE message is received and the subtree is left. (22) A coordination message prompting PTC1 to stop its activity is received. (23) The IUT is a terminating entity. (24) Messages to prompt the test operator to perform actions at the IUT. (25) A coordination message prompting PTC1 to stop its activity is received.

Test Step Dynamic Behaviour

Test Step Name : END_PTC1
Group : END_PTC/
Objective : Test step to terminate all actions at PTC1.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[PTC_ACTIVATED]			
2		[PC_TRANSIT]			(1)
3		START TWAIT			
4		?DONE(PTC1) CANCEL TWAIT		R	(2)
5		?TIMEOUT TWAIT			no response
6		CPA1!CP_M START TWAIT	STOP_PTC		(3)
7		?DONE(PTC1) CANCEL TWAIT		R	(2)
8		?TIMEOUT TWAIT		R	no response
9		[NOT PC_TRANSIT]			(4)
10		CPA1!CP_M START TWAIT	STOP_PTC		(3)
11		?DONE(PTC1) CANCEL TWAIT		R	(2)
12		?TIMEOUT TWAIT		R	no response
13		[NOT PTC_ACTIVATED]		R	

Detailed Comments : (1) The IUT is a transit entity.
(2) All procedures at PTC1 have finished their activity.
(3) This coordination message indicates to PTC1 to terminate all actions.
(4) The IUT is a terminating entity.

Default Dynamic Behaviour

Default Name : CC_DEF(FL: Flag)
Group : MTC_Defaults/
Objective : Default subtree for all test cases.
Comments :

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		[PC_COBI]			
8		L0!DSS2_PDU (INV_FL := INVERSE(FL)) START TAC	Ms(RL,FL,CREF,RL_S1 (C16))		(4)
9		L0?DSS2_PDU CANCEL TAC	Mr(RC,INV_FL,CREF,RC_R1)		(5)
10		+END_PTC_ACTIONS			(6)
11		?TIMEOUT TAC		(F)	no response
12		+END_PTC_ACTIONS			(6)
13		L0?OTHERWISE		(F)	(3)
14		+END_PTC_ACTIONS			(6)
15		[NOT PC_COBI]			
16		+END_PTC_ACTIONS			(6)
		END_PTC_ACTIONS			
17		[PC_TRANSIT]			(7)
18		START TWAIT			
19		?DONE(PTC1) CANCEL TWAIT		R	(8)
20		?TIMEOUT TWAIT			no response
21		CPA1!CP_M START TWAIT	STOP_PTC		(9)
22		?DONE(PTC1) CANCEL TWAIT		R	(8)
23		?TIMEOUT TWAIT		R	no response
24		[NOT PC_TRANSIT]			(10)
25		CPA1!CP_M START TWAIT	STOP_PTC		(9)
26		?DONE(PTC1) CANCEL TWAIT		R	(8)

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Default Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		?TIMEOUT TWAIT		R	no respon se

Detailed Comments : (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) The IUT is a transit entity.
(8) All procedures at PTC1 have finished their activity.
(9) This coordination message indicates to PTC1 to terminate all actions.
(10) The IUT is a terminating entity.

Default Dynamic Behaviour

Default Name : PTC1_DEF(FL: Flag)
Group : PTC_Defaults/
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		?TIMEOUT			
9		+RELEASE_CALL(FL)			(1)
10		L1?OTHERWISE			(3)
11		+RELEASE_CALL(FL)			(1)
		RELEASE_CALL(FL: Flag)			
12		[PC_COBI]			
13		L1!DSS2_PDU (INV_FL := INVERSE(FL)) START TAC	Ms(RL,FL,CREF,RL_S1 (C16))		(4)
14		L1?DSS2_PDU (END_FLAG:=TRUE) CANCEL TAC	Mr(RC,INV_FL,CREF,R C_R1)		(5)
15		?TIMEOUT TAC			no respon se
16		(END_FLAG:=TRUE)			
17		L1?OTHERWISE			(2)
18		(END_FLAG:=TRUE)			
19		[NOT PC_COBI]			
20		(END_FLAG:=TRUE)			

Detailed Comments : (1) Subtree to release the call.
(2) An unexpected message was received. Return to test step.
(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.