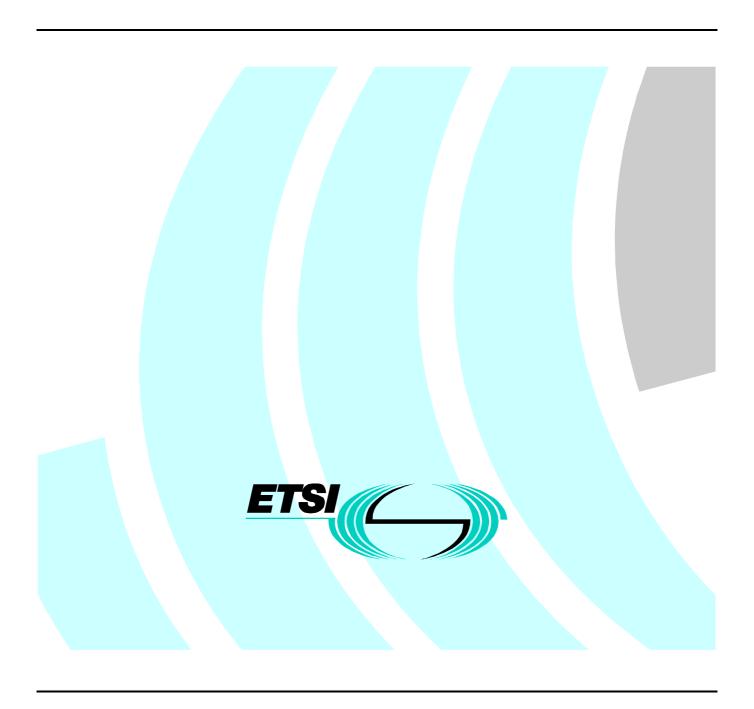
ETSI EN 300 443-5 V1.2.1 (2000-10)

European Standard (Telecommunications series)

Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
B-ISDN user-network interface layer 3 specification
for basic call/bearer control;
Part 5: Test Suite Structure and Test Purposes (TSS&TP)
specification for the network



Reference

REN/SPAN-05143-5

Keywords

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 5 of a multi-part standard covering the Digital Subscriber Signalling System No. 2 (DSS2) protocol specification for the B-ISDN user-network interface layer 3 specification for basic call/bearer control, as described below:

- Part 1: "Protocol specification";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

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1 Scope

The present document specifies the network Test Suite Structure and Test Purposes (TSS&TP) for the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [5]) of implementations conforming to the standards for the signalling user-network layer 3 specification for basic call/bearer control of the Digital Subscriber Signalling System No. two (DSS2) protocol for the pan-European Broadband Integrated Services Digital Network (B-ISDN), EN 300 443-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.
- [1] ETSI EN 300 443-1 (V1.3): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [2] ETSI EN 300 443-2 (V1.3): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [4] ISO/IEC 9646-2: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract Test Suite specification".
- [5] ITU-T Recommendation I.413 (1993): "B-ISDN user-network interface".
- [6] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 443-1 [1] and the following apply:

3.1.1 Definitions related to conformance testing

abstract test case: refer to ISO/IEC 9646-1 [3]

Abstract Test Method (ATM): refer to ISO/IEC 9646-1 [3]

Abstract Test Suite (ATS): refer to ISO/IEC 9646-1 [3]

Implementation Under Test (IUT): refer to ISO/IEC 9646-1 [3]

lower tester: refer to ISO/IEC 9646-1 [3]

Protocol Implementation Conformance Statement (PICS): refer to ISO/IEC 9646-1 [3]

PICS proforma: refer to ISO/IEC 9646-1 [3]

Protocol Implementation eXtra Information for Testing (PIXIT): refer to ISO/IEC 9646-1 [3]

PIXIT proforma: refer to ISO/IEC 9646-1 [3]

Test Purpose (TP): refer to ISO/IEC 9646-1 [3]

3.1.2 Definitions related to EN 300 443-1

network: DSS2 protocol entity at the Network side of the user-network interface where a T_B reference point or coincident S_B and T_B reference point applies

network (S_B/T_B): DSS2 protocol entity at the Network side of the user-network interface where a coincident S_B and T_B reference point applies

network (T_B): DSS2 protocol entity at the Network side of the user-network interface where a T_B reference point applies (user is the private ISDN)

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ATM Abstract Test Method ATS Abstract Test Suite

B-ISDN Broadband Integrated Services Digital Network DSS2 Digital Subscriber Signalling System No. two

IUT Implementation Under Test

N0 Null call state

N1 Call Initiated call state N10 Active call state

N12 Release Indication call state N2 Overlap Sending call state

N3 Outgoing Call Proceeding call state

N4 Call Delivered call state
N6 Call Present call state
N7 Call Received call state

N9 Incoming Call Proceeding call state

N-ISDN Narrowband Integrated Services Digital Network
PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

Rest 0 Restart Null state
Rest 1 Restart Request state

Rest 2 Restart state
TP Test Purpose
TSS Test Suite Structure
VC Virtual Channel

VCI Virtual Channel Identifier

VP Virtual Path

VPC Virtual Path Connection

VPCI Virtual Path Connection Identifier

4 Test Suite Structure (TSS)

Signalling procedures at the coincident S_B/T_B and at the T_B reference points Call/connection establishment at the originating interface Connection identifier (VPCI/VCI) allocation/selection(01) Associated signalling....(02) Non-associated signalling...(03) QOS and traffic parameters selection procedures(04) Invalid call/connection control information(05) Call/connection proceeding....(06) Call/connection confirmation indication(07) Call/connection acceptance (08) Call/connection rejection(09) Transit network selection(10) Call/connection establishment at the destination interface Incoming call/connection request.....(11) Connection identifier (VPCI/VCI) allocation/selection(12) Associated signalling.....(13) Non-associated signalling.....(14) Call/connection confirmation(15) Call/connection acceptance(16) Call/connection clearing Exception conditions(17) Clearing initiated by the user(18) Clearing initiated by the network(19) Clear collision (20) Restart procedure Sending RESTART.....(21) Receipt of RESTART (22) Remote user....(23) Handling of error conditions Error handling in N0(24) Error handling in N3(25) Error handling in N4(26) Error handling in N6(27) Error handling in N7(28) Error handling in N9(29) Error handling in N10 - incoming call(30) Error handling in N10 - outgoing call(31) Error handling in N12 - incoming call(32) Error handling in N12 - outgoing call(33) Error handling in Rest 0(34) Error handling in Rest 1(35) Signalling procedures for interworking between N-ISDN and B-ISDN Interworking N-ISDN -> B-ISDN.....(37) Interworking B-ISDN -> N-ISDN(38)

Figure 1: Test suite structure

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 TP naming convention

TPs are numbered, starting at 01, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:	<sui< th=""><th>te_id>_<group>_<nnn></nnn></group></th><th></th></sui<>	te_id>_ <group>_<nnn></nnn></group>	
<suite_id></suite_id>	=	layer + type of IUT:	"L3BN" for L ayer 3 B asic call/bearer control, IUT = N etwork
<group></group>	=	group number:	two character field representing the group reference according to TSS
<nn></nn>	=	sequential number:	(01-99)

5.1.2 Source of TP definition

The TPs are based on EN 300 443-1 [1].

5.1.3 Test strategy

As the base standard EN 300 443-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification EN 300 443-2 [2].

The TPs are only based on conformance requirements related to the externally observable behaviour of the IUT, and are limited to conceivable situations to which a real implementation is likely to be faced (ETS 300 406 [6]).

5.1.4 Test of call states

Many TPs include a reference to the IUT's final call state after the realization of the TP. In these cases the TP includes the requirement to ensure that the IUT has entered this particular final call state. Ensuring that the IUT is in a particular call state shall be realized by following the procedures described in subclause 5.6.11 of EN 300 443-1 [1]. According to these procedures, the IUT on receipt of a STATUS ENQUIRY message, shall respond with a STATUS message indicating, in the fifth octet of the Call state information element, the current call state of the IUT. This exchange of messages is not mentioned explicitly in each TP but is considered to be implicit in the reference to the final call state. This way of phrasing the TPs has been used to avoid over-complicating the text and structure of the TPs and to improve the readability.

5.2 TPs for the basic call/bearer control, layer 3, network

All PICS items referred to in this subclause are as specified in EN 300 443-2 [2] unless indicated otherwise by another numbered reference.

Unless specified:

- the messages indicated are valid and contain at least the mandatory information elements and possibly optional information elements;
- the information elements indicated are valid and contain at least the mandatory parameters and possibly optional parameters.

5.2.1 Signalling procedures at the coincident S_B/T_B and at the T_B reference points

Test purposes for EN 300 443-1 [1] subclause 5.1.

5.2.1.1 Call/connection establishment at the originating interface

Test purposes for EN 300 443-1 [1] subclause 5.1.

5.2.1.1.1 Connection identifier (VPCI/VCI) allocation/selection (01)

Test purposes for EN 300 443-1 [1] subclause 5.1.2.

L3BN_01_01

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = VP associated signalling),

- sends a RELEASE COMPLETE message (Cause value = 36) and remains in N0.

Selection: Associated signalling at the originating side NOT supported. PICS: NOT MCn 1.1.

5.2.1.1.1.1 Associated signalling (02)

Test purposes for EN 300 443-1 [1] subclause 5.1.2.1.

Selection: Associated signalling at the originating side supported. PICS: MCn 1.1.

L3BN 02 01

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = VP associated signalling, preferred exclusive = exclusive VPCI; any VCI), when a VCI is available in the VPC carrying the signalling VC.

- sends a CALL PROCEEDING message (Connection identifier present, VP associated signalling = VP associated signalling, preferred exclusive = exclusive VPCI; exclusive VCI, virtual channel identifier indicating a specific VCI) and enters N3.

L3BN 02 02

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = VP associated signalling, preferred exclusive = exclusive VPCI; exclusive VCI, virtual channel identifier indicating a specific VCI), when the requested VCI is available in the VPC carrying the signalling VC,

- sends a CALL PROCEEDING message (Connection identifier present, VP associated signalling = VP associated signalling, preferred exclusive = exclusive VPCI; exclusive VCI, virtual channel identifier indicating the requested VCI) and enters N3.

L3BN 02 03

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = VP associated signalling, preferred exclusive = exclusive VPCI; any VCI), when no VCI is available in the VPC carrying the signalling VC,

- sends a RELEASE COMPLETE message (Cause value = 45) and remains in N0.

L3BN 02 04

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = VP associated signalling, preferred exclusive = exclusive VPCI; exclusive VCI, virtual channel identifier indicating a specific VCI), when the requested VCI is not available in the VPC carrying the signalling VC,

- sends a RELEASE COMPLETE message (Cause value = 35) and remains in No.

5.2.1.1.1.2 Non-associated signalling (03)

Test purposes for EN 300 443-1 [1] subclause 5.1.2.2.

L3BN 03 01

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; any VCI, virtual path connection identifier indicating a specific VPCI), when a VCI is available within the requested VPCI,

- sends a CALL PROCEEDING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating the requested VPCI, virtual channel identifier indicating a specific VCI) and enters N3.

L3BN_03_02

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), when the requested VCI is available within the requested VPCI,

- sends a CALL PROCEEDING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating the requested VPCI, virtual channel identifier indicating the requested VCI) and enters N3.

L3BN 03 03

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier absent), when a VCI is available within any VPCI,

- sends a CALL PROCEEDING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI) and enters N3.

L3BN 03 04

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; any VCI, virtual path connection identifier indicating a specific VPCI), when the requested VPCI is not available,

- sends a RELEASE COMPLETE message (Cause value = 35) and remains in No.

L3BN_03_05

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), when the requested VPCI is not available,

- sends a RELEASE COMPLETE message (Cause value = 35) and remains in No.

L3BN 03 06

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; any VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), when no VCI is available within the requested VPCI,

- sends a RELEASE COMPLETE message (Cause value = 45) and remains in N0.

L3BN 03 07

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), when the requested VPCI is not available within the requested VPCI,

- sends a RELEASE COMPLETE message (Cause value = 35) and remains in N0.

L3BN 03 08

Ensure that the IUT in N0, on receipt of a SETUP message (Connection identifier absent), when no VCI is available within any VPCI,

- sends a RELEASE COMPLETE message (Cause value = 45) and remains in No.

5.2.1.1.2 QOS and traffic parameter selection procedures (04)

Test purposes for EN 300 443-1 [1] subclause 5.1.3.

L3BN 04 01

Ensure that the IUT in N0, on receipt of a SETUP message (Quality of service parameter present, requesting a QOS class that can not be provided),

- sends a RELEASE COMPLETE message (Cause value = 49) and remains in No.

NOTE: There is only one non-reserved value for the QOS class defined in EN 300 443-1 [1].

L3BN 04 02

Ensure that the IUT in N0, on receipt of a SETUP message (ATM traffic descriptor present, requesting a peak cell rate that can not be provided),

- sends a RELEASE COMPLETE message (Cause value = 37) and remains in No.

5.2.1.1.3 Invalid call/connection control information (05)

Test purposes for EN 300 443-1 [1] subclause 5.1.4.

L3BN 05 01

Ensure that the IUT in N0, on receipt of a SETUP message (Called party number present, indicating invalid call information, i.e. unassigned called party number),

- sends a RELEASE message (Cause value = 1) possibly preceded by a CALL PROCEEDING message and enters N12 or sends a RELEASE COMPLETE message (Cause value = 1) and remains in N0.

L3BN 05 02

Ensure that the IUT in N0, on receipt of a SETUP message (Called party number present, indicating invalid call information, i.e. no outgoing trunk direction exists for the called party number),

sends a RELEASE message (Cause value = 3) possibly preceded by a CALL PROCEEDING message and enters N12 or sends a RELEASE COMPLETE message (Cause value = 3) and remains in N0.

L3BN 05 03

Ensure that the IUT in N0, on receipt of a SETUP message (Called party number present, indicating invalid call information, i.e. a called party number that has been changed),

- sends a RELEASE message (Cause value = 22) possibly preceded by a CALL PROCEEDING message and enters N12 or sends a RELEASE COMPLETE message (Cause value = 22) and remains in N0.

L3BN 05 04

Ensure that the IUT in N0, on receipt of a SETUP message (Called party number present, indicating invalid call information, i.e. an incomplete called party number),

- sends a RELEASE message (Cause value = 28) possibly preceded by a CALL PROCEEDING message and enters N12 or sends a RELEASE COMPLETE message (Cause value = 28) and remains in N0.

5.2.1.1.4 Call/connection proceeding (06)

Test purposes for EN 300 443-1 [1] subclause 5.1.5.

L3BN_06_01

Ensure that the IUT in N0, on receipt of a SETUP message (Broadband bearer capability requesting a service that is authorized and available),

- sends a CALL PROCEEDING message and enters N3.

L3BN 06 02

Ensure that the IUT in N0, on receipt of a SETUP message (Broadband bearer capability requesting a service that is not authorized),

- sends a RELEASE COMPLETE message (Cause value = 57) and remains in N0.

L3BN 06 03

Ensure that the IUT in N0, on receipt of a SETUP message (Broadband bearer capability requesting a service that is not available),

- sends a RELEASE COMPLETE message (Cause value = 58, 63 or 65) and remains in No.

5.2.1.1.5 Call/connection confirmation indication (07)

Test purposes for EN 300 443-1 [1] subclause 5.1.6.

L3BN 07 01

Ensure that the IUT in N3, to indicate that user alerting has been initiated at the called user's side,

- sends an ALERTING message and enters N4.

5.2.1.1.6 Call/connection acceptance (08)

Test purposes for EN 300 443-1 [1] subclause 5.1.7.

L3BN_08_01

Ensure that the IUT in N3, to indicate that the call has been accepted at the called user's side,

- sends a CONNECT message and enters N10.

L3BN 08 02

Ensure that the IUT in N4, to indicate that the call has been accepted at the called user's side,

- sends a CONNECT message and enters N10.

L3BN 08 03

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message,

sends no message and remains in N10.

5.2.1.1.7 Call/connection rejection (09)

Test purposes for EN 300 443-1 [1] subclauses 5.1.8, 5.2.5, 5.4 and annex B.

L3BN_09_01

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (Broadband bearer capability not supported),

- sends a RELEASE message (Cause value = 88) and enters N12.

L3BN_09_02

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (QOS class can not be provided),

- sends a RELEASE message (Cause value = 49) and enters N12.

L3BN_09_03

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (peak cell rate can not be provided),

- sends a RELEASE message (Cause value = 47) and enters N12.

L3BN 09 04

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (call rejected),

- sends a RELEASE message (Cause value = 21) and enters N12.

L3BN 09 05

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (user busy),

- sends a RELEASE message (Cause value = 17) and enters N12.

L3BN 09 06

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (second expiry of T303),

- sends a RELEASE message (Cause value = 18) and enters N12.

L3BN 09 07

Ensure that the IUT in N3, to indicate that the call has not been accepted at the called user's side (expiry of T310),

- sends a RELEASE message (Cause value = 18) and enters N12.

L3BN 09 08

Ensure that the IUT in N4, to indicate that the call has not been accepted at the called user's side (expiry of T301),

- sends a RELEASE message (Cause value = 19) and enters N12.

5.2.1.1.8 Transit network selection (10)

Test purposes for EN 300 443-1 [1] subclause 5.1.9, annex D.

Selection: Transit network selection procedures supported. PICS: MCn 11

L3BN_10_01

Ensure that the IUT in N0, on receipt of a SETUP message (Transit network selection indicating a transit network not recognized by the IUT),

- sends a RELEASE message (Cause value = 2) preceded by a CALL PROCEEDING message and enters N12.

L3BN 10 02

Ensure that the IUT in N0, on receipt of a SETUP message (Transit network selection indicating the transit network selection in an incorrect format),

- sends a RELEASE message (Cause value = 91) preceded by a CALL PROCEEDING message and enters N12.

L3BN 10 03

Ensure that the IUT in N0, on receipt of a SETUP message (Transit network selection indicating valid network selection information), to indicate that it can not route the call to the requested direction due to insufficient bandwidth,

- sends a RELEASE message (Cause value = 37) preceded by a CALL PROCEEDING message and enters N12.

5.2.1.2 Call/connection establishment at the destination interface

Test purposes for EN 300 443-1 [1] subclause 5.2.

5.2.1.2.1 Incoming call/connection request (11)

Test purposes for EN 300 443-1 [1] subclauses 5.2.1 and 5.2.4.

L3BN_11_01

Ensure that the IUT in N0, to indicate the arrival of a call,

- sends a SETUP message (Quality of service parameter, ATM traffic descriptor present) and enters N6.

L3BN_11_02

Ensure that the IUT in N0, to indicate the arrival of a call by using the en bloc receiving procedures,

- sends a SETUP message (Quality of service parameter, ATM traffic descriptor, Broadband sending complete present) and enters N6.

L3BN_11_03

Ensure that the IUT in N6, on the first expiry of T303,

- sends a SETUP message (same contents as the first SETUP message) and remains in N6.

L3BN_11_04

Ensure that the IUT in N6, on the second expiry of T303,

- sends a no message and enters N0.

5.2.1.2.2 Connection identifier (VPCI/VCI) allocation/selection (12)

Test purposes for EN 300 443-1 [1] subclause 5.2.3.

Selection: Associated signalling on the destination side NOT supported. PICS: NOT MCn 2.1

L3BN 12 01

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Connection identifier present, VP associated signalling = VP associated signalling),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN 12 02

Ensure that the IUT in N6, on receipt of an ALERTING message (Connection identifier present, VP associated signalling = VP associated signalling),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN 12 03

Ensure that the IUT in N6, on receipt of a CONNECT message (Connection identifier present, VP associated signalling = VP associated signalling),

- sends a RELEASE message (Cause value = 36) and enters N12.

5.2.1.2.2.1 Associated signalling (13)

Test purposes for EN 300 443-1 [1] subclause 5.2.3.1.

Selection: Associated signalling on the destination side supported. PICS: MCn 2.1

L3BN 13 01

Ensure that the IUT in N0, to indicate the arrival of a call,

- sends a SETUP message (Connection identifier present, VP associated signalling = VP associated signalling) and enters N6.

5.2.1.2.2.2 Non-associated signalling (14)

Test purposes for EN 300 443-1 [1] subclause 5.2.3.2.

L3BN_14_01

Ensure that the IUT in N0, to indicate the arrival of a call,

- sends a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI) and enters N6.

L3BN_14_02

Ensure that the IUT in N6, having sent a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; any VCI, virtual path connection identifier indicating a specific VPCI), on receipt of a CALL PROCEEDING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a VPCI other than the sent one),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN_14_03

Ensure that the IUT in N6, having sent a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), on receipt of a CALL PROCEEDING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a VPCI other than the sent one, virtual channel identifier indicating a VCI other than the sent one),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN 14 04

Ensure that the IUT in N6, having sent a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; any VCI, virtual path connection identifier indicating a specific VPCI), on receipt of an ALERTING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a VPCI other than the sent one),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN 14 05

Ensure that the IUT in N6, having sent a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), on receipt of an ALERTING message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a VPCI other than the sent one, virtual channel identifier indicating a VCI other than the sent one),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN 14 06

Ensure that the IUT in N6, having sent a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; any VCI, virtual path connection identifier indicating a specific VPCI), on receipt of a CONNECT message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a VPCI other than the sent one),

- sends a RELEASE message (Cause value = 36) and enters N12.

L3BN 14 07

Ensure that the IUT in N6, having sent a SETUP message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI), on receipt of a CONNECT message (Connection identifier present, VP associated signalling = explicit indication of VPCI, preferred exclusive = exclusive VPCI; exclusive VCI, virtual path connection identifier indicating a VPCI other than the sent one, virtual channel identifier indicating a VCI other than the sent one),

- sends a RELEASE message (Cause value = 36) and enters N12.

5.2.1.2.3 Call/connection confirmation (15)

Test purposes for EN 300 443-1 [1] subclause 5.2.5.

L3BN_15_01

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message,

- sends no message and enters N9.

L3BN_15_02

Ensure that the IUT in N6, on receipt of an ALERTING message,

- sends no message and enters N7.

L3BN 15 03

Ensure that the IUT in N9, on receipt of an ALERTING message,

- sends no message and enters N7.

L3BN 15 04

Ensure that the IUT in N9, on the expiry of T310,

- sends a RELEASE message (Cause value = 102) and enters N12.

L3BN_15_05

Ensure that the IUT in N7, on the expiry of T301,

- sends a RELEASE message (Cause value = 102) and enters N12.

5.2.1.2.4 Call/connection acceptance (16)

Test purposes for EN 300 443-1 [1] subclause 5.2.6.

L3BN_16_01

Ensure that the IUT in N6, on receipt of a CONNECT message,

- sends a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 16 02

Ensure that the IUT in N7, on receipt of a CONNECT message,

- sends a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 16 03

Ensure that the IUT in N9, on receipt of a CONNECT message,

- sends a CONNECT ACKNOWLEDGE message and enters N10.

5.2.1.3 Call/connection clearing

Test purposes for EN 300 443-1 [1] subclause 5.4.

5.2.1.3.1 Exception conditions (17)

Test purposes for EN 300 443-1 [1] subclause 5.4.2.

L3BN 17 01

Ensure that the IUT in N6, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

5.2.1.3.2 Clearing initiated by the user (18)

Test purposes for EN 300 443-1 [1] subclause 5.4.3.

L3BN 18 01

Ensure that the IUT in N3, on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message and enters N0.

L3BN 18 02

Ensure that the IUT in N4, on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message and enters N0.

L3BN_18_03

Ensure that the IUT in N7, on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message and enters N0.

L3BN_18_04

Ensure that the IUT in N9, on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message and enters N0.

L3BN 18 05

Ensure that the IUT in N10 (incoming call), on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message and enters N0.

L3BN_18_06

Ensure that the IUT in N10 (outgoing call), on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message and enters N0.

5.2.1.3.3 Clearing initiated by the network (19)

Test purposes for EN 300 443-1 [1] subclause 5.4.4.

L3BN_19_01

Ensure that the IUT in N3, to initiate call clearing,

- sends a RELEASE message and enters N12.

L3BN 19 02

Ensure that the IUT in N4, to initiate call clearing,

- sends a RELEASE message and enters N12.

L3BN 19 03

Ensure that the IUT in N7, to initiate call clearing,

- sends a RELEASE message and enters N12.

L3BN 19 04

Ensure that the IUT in N9, to initiate call clearing,

- sends a RELEASE message and enters N12.

L3BN 19 05

Ensure that the IUT in N10 (incoming call), to initiate call clearing,

- sends a RELEASE message and enters N12.

L3BN 19 06

Ensure that the IUT in N10 (outgoing call), to initiate call clearing,

- sends a RELEASE message and enters N12.

L3BN 19 07

Ensure that the IUT in N12 (incoming call), on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN_19_08

Ensure that the IUT in N12 (outgoing call), on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN_19_09

Ensure that the IUT in N12 (incoming call), on the expiry of T308,

- sends a RELEASE message and remains in N12.

L3BN 19 10

Ensure that the IUT in N12 (outgoing call), on the expiry of T308,

- sends a RELEASE message and remains in N12.

5.2.1.3.4 Clear collision (20)

Test purposes for EN 300 443-1 [1] subclause 5.4.5.

L3BN_20_01

Ensure that the IUT in N12 (incoming call), on receipt of a RELEASE message,

- sends no message and enters N0.

L3BN 20 02

Ensure that the IUT in N12 (outgoing call), on receipt of a RELEASE message,

- sends no message and enters N0.

5.2.1.4 Restart procedure

Test purposes for EN 300 443-1 [1] subclause 5.5.

5.2.1.4.1 Sending RESTART (21)

Test purposes for EN 300 443-1 [1] subclause 5.5.1.

L3BN_21_01

Ensure that the IUT in Rest 0, to return virtual channels to the idle condition,

- sends a RESTART message and enters Rest 1.

L3BN 21 02

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message,

- sends no message and enters Rest 0.

L3BN 21 03

Ensure that the IUT in Rest 1, on the first expiry of T316,

- sends a RESTART message and remains in Rest 1.

L3BN_21_04

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Connection identifier different to the one sent by the IUT in the RESTART message),

- sends no message and remains in Rest 1.

5.2.1.4.2 Receipt of RESTART (22)

Test purposes for EN 300 443-1 [1] subclause 5.5.2.

L3BN 22 01

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating a specific VPCI, virtual channel identifier indicating a specific VCI),

- sends a RESTART ACKNOWLEDGE message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating the requested VPCI, virtual channel identifier indicating the requested VCI) and re-enters Rest 0.

L3BN 22 02

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels in the indicated VPC which are controlled via the signalling virtual channel on which the RESTART message is sent, Connection identifier present, virtual path connection identifier indicating a specific VPCI),

- sends a RESTART ACKNOWLEDGE message (Restart indicator class = all virtual channels in the indicated VPC which are controlled via the signalling virtual channel on which the RESTART message is sent, Connection identifier present, virtual path connection identifier indicating the requested VPCI) and re-enters Rest 0.

L3BN 22 03

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier absent),

- sends a RESTART ACKNOWLEDGE message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier absent) and re-enters Rest 0.

L3BN 22 04

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating a specific VPCI, virtual channel identifier = the signalling virtual channel),

- sends no message or optionally sends a STATUS message (Call reference value = global call reference, cause value = 82, call state value = Rest 0) and remains in Rest 0.

L3BN 22 05

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = IE instruction field not significant),

optionally sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 2) followed by a RESTART ACKNOWLEDGE message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier absent) and re-enters Rest 0.

L3BN 22 06

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and remains in Rest 0.

L3BN 22 07

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 0) and remains in Rest 0.

L3BN_22_08

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 0.

L3BN_22_09

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed, and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 2) followed by a RESTART ACKNOWLEDGE message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier absent) and re-enters Rest 0.

L3BN_22_10

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends a RESTART ACKNOWLEDGE message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier absent) and re-enters Rest 0.

L3BN 22 11

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 2) followed by a RESTART ACKNOWLEDGE message (Restart indicator class = all virtual channels controlled by the layer 3 entity which sends the RESTART message, Connection identifier absent) and re-enters Rest 0.

L3BN 22 12

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier absent),

- sends a STATUS message (Call reference value = global call reference, cause value = 96, call state value = Rest 0) and remains in Rest 0.

L3BN 22 13

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = IE instruction field not significant),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 0) and remains in Rest 0.

L3BN 22 14

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels in the indicated VPC which are controlled via the signalling virtual channel on which the RESTART message is sent, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = IE instruction field not significant),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 0) and remains in Rest 0.

L3BN 22 15

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and remains in Rest 0.

L3BN 22 16

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels in the indicated VPC which are controlled via the signalling virtual channel on which the RESTART message is sent, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and remains in Rest 0.

L3BN_22_17

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 0) and remains in Rest 0.

L3BN_22_18

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels in the indicated VPC which are controlled via the signalling virtual channel on which the RESTART message is sent, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 0) and remains in Rest 0.

L3BN 22 19

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = indicated virtual channel, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 0.

L3BN 22 20

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator class = all virtual channels in the indicated VPC which are controlled via the signalling virtual channel on which the RESTART message is sent, Connection identifier present, virtual path connection identifier indicating an unrecognized VPCI, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 0.

5.2.1.4.3 Remote interface (23)

Test purposes for EN 300 443-1 [1] subclause 5.5.

L3BN 23 01

Ensure that the IUT in N3, to indicate that the virtual channels have been returned to an idle condition at the remote interface.

- sends a RELEASE message (Cause value = 41) and enters N12.

L3BN 23 02

Ensure that the IUT in N4, to indicate that the virtual channels have been returned to an idle condition at the remote interface.

- sends a RELEASE message (Cause value = 41) and enters N12.

L3BN 23 03

Ensure that the IUT in N7, to indicate that the virtual channels have been returned to an idle condition at the remote interface.

- sends a RELEASE message (Cause value = 41) and enters N12.

L3BN 23 04

Ensure that the IUT in N9, to indicate that the virtual channels have been returned to an idle condition at the remote interface,

- sends a RELEASE message (Cause value = 41) and enters N12.

L3BN_23_05

Ensure that the IUT in N10 (incoming call), to indicate that the virtual channels have been returned to an idle condition at the remote interface,

- sends a RELEASE message (Cause value = 41) and enters N12.

L3BN 23 06

Ensure that the IUT in N10 (outgoing call), to indicate that the virtual channels have been returned to an idle condition at the remote interface,

- sends a RELEASE message (Cause value = 41) and enters N12.

5.2.1.5 Handling of error conditions

Test purposes for EN 300 443-1 [1] subclauses 5.6 and 5.7.

5.2.1.5.1 Error handling in N0 (24)

L3BN_24_01

Ensure that the IUT in N0, on receipt of a SETUP message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N0.

L3BN 24 02

Ensure that the IUT in N0, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N0.

L3BN 24 03

Ensure that the IUT in N0, on receipt of a SETUP message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N0.

L3BN_24_04

Ensure that the IUT in N0, on receipt of a SETUP message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0.011$ B),

- sends no message and remains in N0.

L3BN_24_05

Ensure that the IUT in N0, on receipt of an ALERTING message,

- sends a RELEASE COMPLETE message (Cause value = 81) and remains in N0.

L3BN_24_06

Ensure that the IUT in N0, on receipt of a CALL PROCEEDING message,

- sends a RELEASE COMPLETE message (Cause value = 81) and remains in No.

L3BN 24 07

Ensure that the IUT in N0, on receipt of a CONNECT message,

- sends a RELEASE COMPLETE message (Cause value = 81) and remains in No.

L3BN_24_08

Ensure that the IUT in N0, on receipt of a CONNECT ACKNOWLEDGE message,

- sends a RELEASE COMPLETE message (Cause value = 81) and remains in No.

L3BN 24 09

Ensure that the IUT in N0, on receipt of a NOTIFY message,

- sends a RELEASE COMPLETE message (Cause value = 81) and remains in No.

L3BN_24_10

Ensure that the IUT in N0, on receipt of a RELEASE message,

- sends a RELEASE COMPLETE message (Cause value = 81) and remains in No.

L3BN 24 11

Ensure that the IUT in N0, on receipt of a RELEASE COMPLETE message,

- sends no message and remains in N0.

L3BN_24_12

Ensure that the IUT in N0, on receipt of a SETUP message (Call reference flag = 1),

- sends no message and remains in N0.

L3BN 24 13

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 1),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in N0.

L3BN 24 14

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 3),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in No.

L3BN 24 15

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 4),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in N0.

L3BN 24 16

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 6),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in No.

L3RN 24 17

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 7),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in N0.

L3BN 24 18

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 8),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in No.

L3BN 24 19

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 9),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in N0.

L3BN 24 20

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 10),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in N0.

L3BN 24 21

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 11),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in No.

L3BN 24 22

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 12),

- sends a RELEASE COMPLETE message (Cause value = 101) and remains in N0.

L3BN 24 23

Ensure that the IUT in N0, on receipt of a STATUS message (Call state value = 0),

- sends no message and remains in N0.

L3BN_24_24

Ensure that the IUT in N0, on receipt of a STATUS message (Call reference value = global call reference, call state value = Rest 1),

- sends no message and remains in N0.

L3BN 24 25

Ensure that the IUT in N0, on receipt of a STATUS message (Call reference value = global call reference, call state value = Rest 2).

- sends no message and remains in N0.

L3BN_24_26

Ensure that the IUT in N0, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 0) and remains in N0.

L3BN 24 27

Ensure that the IUT in N0, on receipt of a SETUP message (Mandatory information element missing),

- sends a RELEASE COMPLETE message (Cause value = 96) and remains in N0.

L3BN_24_28

Ensure that the IUT in N0, on receipt of a SETUP message (Mandatory information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 100) and remains in No.

L3BN_24_29

Ensure that the IUT in N0, on receipt of a SETUP message (Mandatory information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE COMPLETE message (Cause value = 100) and remains in No.

L3BN_24_30

Ensure that the IUT in N0, on receipt of a SETUP message (Mandatory information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 0) and remains in No.

L3BN_24_31

Ensure that the IUT in N0, on receipt of a SETUP message (Mandatory information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N0.

L3BN 24 32

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

optionally sends a STATUS message (Cause value = 99, call state value =1) followed by a CALL PROCEEDING message and enters N3.

L3BN_24_33

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE COMPLETE message (Cause value = 99) and remains in No.

L3BN 24 34

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 99, call state value = 0) and remains in N0.

L3BN 24 35

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N0.

L3BN 24 36

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 99, call state value = 1) followed by a CALL PROCEEDING message and enters N3.

L3BN 24 37

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends a CALL PROCEEDING message and enters N3.

L3BN_24_38

Ensure that the IUT in N0, on receipt of a SETUP message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 99, call state value = 1) followed by a CALL PROCEEDING message and enters N3.

L3BN 24 39

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

optionally sends a STATUS message (Cause value = 100, call state value =1) followed by a CALL PROCEEDING message and enters N3.

L3BN_24_40

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE COMPLETE message (Cause value = 100) and remains in No.

L3BN 24 41

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 0) and remains in N0.

L3BN_24_42

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N0.

L3BN 24 43

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 100, call state value = 1) followed by a CALL PROCEEDING message and enters N3.

L3BN_24_44

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends a CALL PROCEEDING message and enters N3.

L3BN 24 45

Ensure that the IUT in N0, on receipt of a SETUP message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 100, call state value = 1) followed by a CALL PROCEEDING message and enters N3.

5.2.1.5.2 Error handling in N3 (25)

L3BN 25 01

Ensure that the IUT in N3, on receipt of a RELEASE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N3.

L3BN 25 02

Ensure that the IUT in N3, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N3.

L3BN 25 03

Ensure that the IUT in N3, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N3.

L3BN 25 04

Ensure that the IUT in N3, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0.011$ 'B),

- sends no message and remains in N3.

L3BN_25_05

Ensure that the IUT in N3, on receipt of a SETUP message (Call reference value already in use),

- sends no message and remains in N3.

L3BN 25 06

Ensure that the IUT in N3, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 3) and remains in N3.

L3BN 25 07

Ensure that the IUT in N3, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN_25_08

Ensure that the IUT in N3, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 3) and remains in N3.

L3BN_25_09

Ensure that the IUT in N3, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N3.

L3BN 25 10

Ensure that the IUT in N3, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 3) and remains in N3.

L3BN_25_11

Ensure that the IUT in N3, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 3) and remains in N3.

L3BN 25 12

Ensure that the IUT in N3, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN_25_13

Ensure that the IUT in N3, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 3) and remains in N3.

L3BN 25 14

Ensure that the IUT in N3, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N3.

L3BN 25 15

Ensure that the IUT in N3, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 3) and remains in N3.

L3BN_25_16

Ensure that the IUT in N3, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN 25 17

Ensure that the IUT in N3, on receipt of a RELEASE message (Cause information element absent),

- sends a RELEASE COMPLETE message (Cause value = 96) and enters N0.

L3BN_25_18

Ensure that the IUT in N3, on receipt of a RELEASE message (Cause information element with content error present),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 25 19

Ensure that the IUT in N3, on receipt of a RELEASE message (Unrecognized information element present),

- sends a RELEASE COMPLETE message (Cause value = 99) and enters N0.

L3BN_25_20

Ensure that the IUT in N3, on receipt of a RELEASE message (Optional information element with content error present),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 25 21

Ensure that the IUT in N3, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message or optionally sends a STATUS ENQUIRY message and remains in N3.

L3BN 25 22

Ensure that the IUT in N3, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 3) and remains in N3.

L3BN_25_23

Ensure that the IUT in N3, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.3 Error handling in N4 (26)

L3BN_26_01

Ensure that the IUT in N4, on receipt of a RELEASE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N4.

L3BN 26 02

Ensure that the IUT in N4, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N4.

L3BN_26_03

Ensure that the IUT in N4, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N4.

L3BN_26_04

Ensure that the IUT in N4, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0.011$ 'B).

- sends no message and remains in N4.

L3BN 26 05

Ensure that the IUT in N4, on receipt of a SETUP message (Call reference value already in use),

- sends no message and remains in N4.

L3BN 26 06

Ensure that the IUT in N4, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 4) and remains in N4.

L3BN_26_07

Ensure that the IUT in N4, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN 26 08

Ensure that the IUT in N4, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 4) and remains in N4.

L3BN 26 09

Ensure that the IUT in N4, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N4.

L3BN 26 10

Ensure that the IUT in N4, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 4) and remains in N4.

L3BN_26_11

Ensure that the IUT in N4, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 4) and remains in N4.

L3BN_26_12

Ensure that the IUT in N4, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN 26 13

Ensure that the IUT in N4, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 4) and remains in N4.

L3BN_26_14

Ensure that the IUT in N4, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N4.

L3BN 26 15

Ensure that the IUT in N4, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 4) and remains in N4.

L3BN_26_16

Ensure that the IUT in N4, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN_26_17

Ensure that the IUT in N4, on receipt of a RELEASE message (Cause information element absent),

- sends a RELEASE COMPLETE message (Cause value = 96) and enters N0.

L3BN_26_18

Ensure that the IUT in N4, on receipt of a RELEASE message (Cause information element with content error present),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 26 19

Ensure that the IUT in N4, on receipt of a RELEASE message (Unrecognized information element present),

- sends a RELEASE COMPLETE message (Cause value = 99) and enters N0.

L3BN_26_20

Ensure that the IUT in N4, on receipt of a RELEASE message (Optional information element with content error present),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters No.

L3BN 26 21

Ensure that the IUT in N4, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message or optionally sends a STATUS ENQUIRY message and remains in N4.

L3BN 26 22

Ensure that the IUT in N4, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 4) and remains in N4.

L3BN 26 23

Ensure that the IUT in N4, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.4 Error handling in N6 (27)

L3BN 27 01

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N6.

L3BN_27_02

Ensure that the IUT in N6, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N6.

L3BN_27_03

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N6.

L3BN 27 04

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in N6.

L3BN 27 05

Ensure that the IUT in N6, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 6) and remains in N6.

L3BN 27 06

Ensure that the IUT in N6, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN_27_07

Ensure that the IUT in N6, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 6) and remains in N6.

L3BN 27 08

Ensure that the IUT in N6, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N6.

L3BN 27 09

Ensure that the IUT in N6, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 6) and remains in N6.

L3BN_27_10

Ensure that the IUT in N6, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 6) and remains in N6.

L3BN 27 11

Ensure that the IUT in N6, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN_27_12

Ensure that the IUT in N6, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 6) and remains in N6.

L3BN 27 13

Ensure that the IUT in N6, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N6.

L3BN 27 14

Ensure that the IUT in N6, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 6) and remains in N6.

L3BN_27_15

Ensure that the IUT in N6, on receipt of a RELEASE message

- sends a RELEASE COMPLETE message and enters N0.

L3BN_27_16

Ensure that the IUT in N6, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN_27_17

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 99, call state value = 9) and enters N9.

L3BN 27 18

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 99) and enters N12.

L3BN 27 19

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 99, call state value = 6) and remains in N6.

L3BN_27_20

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N6.

L3BN 27 21

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 99, call state value = 9) and enters N9.

L3BN 27 22

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and enters N9.

L3BN 27 23

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 99, call state value = 9) and enters N9.

L3BN_27_24

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 100, call state value = 9) and enters N9.

L3BN 27 25

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 100) and enters N12.

L3BN_27_26

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 6) and remains in N6.

L3BN_27_27

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N6.

L3BN_27_28

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 100, call state value = 9) and enters N9.

L3BN_27_29

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and enters N9.

L3BN_27_30

Ensure that the IUT in N6, on receipt of a CALL PROCEEDING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 100, call state value = 9) and enters N9.

L3BN_27_31

Ensure that the IUT in N6, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message or optionally sends a STATUS ENQUIRY message and remains in N6.

L3BN 27 32

Ensure that the IUT in N6, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 6) and remains in N6.

L3BN 27 33

Ensure that the IUT in N6, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.5 Error handling in N7 (28)

L3BN_28_01

Ensure that the IUT in N7, on receipt of a CONNECT message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N7.

L3BN_28_02

Ensure that the IUT in N7, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N7.

L3BN 28 03

Ensure that the IUT in N7, on receipt of a CONNECT message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N7.

L3BN 28 04

Ensure that the IUT in N7, on receipt of a CONNECT message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in N7.

L3BN 28 05

Ensure that the IUT in N7, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 7) and remains in N7.

L3BN 28 06

Ensure that the IUT in N7, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN 28 07

Ensure that the IUT in N7, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 7) and remains in N7.

L3BN_28_08

Ensure that the IUT in N7, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N7.

L3BN 28 09

Ensure that the IUT in N7, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 7) and remains in N7.

L3BN_28_10

Ensure that the IUT in N7, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 7) and remains in N7.

L3BN 28 11

Ensure that the IUT in N7, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN_28_12

Ensure that the IUT in N7, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 7) and remains in N7.

L3BN 28 13

Ensure that the IUT in N7, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N7.

L3BN 28 14

Ensure that the IUT in N7, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 7) and remains in N7.

L3BN_28_15

Ensure that the IUT in N7, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN 28 16

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

optionally sends a STATUS message (Cause value = 99, call state value = 8) followed by a CONNECT ACKNOWLEDGE message and enters N10.

L3BN_28_17

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 99) and enters N12.

L3BN 28 18

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 99, call state value = 7) and remains in N7.

L3BN 28 19

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N7.

L3BN_28_20

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 99, call state value = 8) followed by a CONNECT ACKNOWLEDGE message and enters N10.

L3BN_28_21

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 28 22

Ensure that the IUT in N7, on receipt of a CONNECT message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 99, call state value = 8) followed by a CONNECT ACKNOWLEDGE message and enters N10.

L3BN_28_23

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

optionally sends a STATUS message (Cause value = 100, call state value = 8) followed by a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 28 24

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 100) and enters N12.

L3BN 28 25

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 7) and remains in N7.

L3BN 28 26

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N7.

L3BN_28_27

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 100, call state value = 8) followed by a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 28 28

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 28 29

Ensure that the IUT in N7, on receipt of a CONNECT message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 100, call state value = 8) followed by a CONNECT ACKNOWLEDGE message and enters N10.

L3BN 28 30

Ensure that the IUT in N7, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message or optionally sends a STATUS ENQUIRY message and remains in N7.

L3BN 28 31

Ensure that the IUT in N7, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 7) and remains in N7.

L3BN 28 32

Ensure that the IUT in N7, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.6 Error handling in N9 (29)

L3BN 29 01

Ensure that the IUT in N9, on receipt of an ALERTING message (Protocol discriminator coded other than Q.2931 user-network call control message).

- sends no message and remains in N9.

L3BN_29_02

Ensure that the IUT in N9, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N9.

L3BN_29_03

Ensure that the IUT in N9, on receipt of an ALERTING message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N9.

L3BN_29_04

Ensure that the IUT in N9, on receipt of an ALERTING message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B).

- sends no message and remains in N9.

L3BN 29 05

Ensure that the IUT in N9, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 9) and remains in N9.

L3BN 29 06

Ensure that the IUT in N9, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN_29_07

Ensure that the IUT in N9, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 9) and remains in N9.

L3BN 29 08

Ensure that the IUT in N9, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N9.

L3BN_29_09

Ensure that the IUT in N9, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 9) and remains in N9.

L3BN 29 10

Ensure that the IUT in N9, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 9) and remains in N9.

L3BN 29 11

Ensure that the IUT in N9, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN_29_12

Ensure that the IUT in N9, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 9) and remains in N9.

L3BN_29_13

Ensure that the IUT in N9, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N9.

L3BN 29 14

Ensure that the IUT in N9, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 9) and remains in N9.

L3BN 29 15

Ensure that the IUT in N9, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN_29_16

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 99, call state value = 7) and enters N7.

L3BN_29_17

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 99) and enters N12.

L3BN 29 18

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 99, call state value = 9) and remains in N9.

L3BN 29 19

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N9.

L3BN_29_20

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status).

- sends a STATUS message (Cause value = 99, call state value = 7) and enters N7.

L3BN_29_21

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and enters N7.

L3BN 29 22

Ensure that the IUT in N9, on receipt of an ALERTING message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 99, call state value = 7) and enters N7.

L3BN_29_23

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 100, call state value = 7) and enters N7.

L3BN 29 24

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 100) and enters N12.

L3BN 29 25

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 9) and remains in N9.

L3BN_29_26

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N9.

L3BN 29 27

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 100, call state value = 7) and enters N7.

L3BN_29_28

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and enters N7.

L3BN 29 29

Ensure that the IUT in N9, on receipt of an ALERTING message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 100, call state value = 7) and enters N7.

L3BN 29 30

Ensure that the IUT in N9, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message or optionally sends a STATUS ENQUIRY message and remains in N9.

L3BN 29 31

Ensure that the IUT in N9, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 9) and remains in N9.

L3BN_29_32

Ensure that the IUT in N9, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.7 Error handling in N10 - incoming call (30)

L3BN_30_01

Ensure that the IUT in N10, on receipt of a RELEASE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N10.

L3BN 30 02

Ensure that the IUT in N10, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N10.

L3BN_30_03

Ensure that the IUT in N10, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B).

- sends no message and remains in N10.

L3BN 30 04

Ensure that the IUT in N10, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in N10.

L3BN_30_05

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 10) and remains in N10.

L3BN 30 06

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN 30 07

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 10) and remains in N10.

L3BN_30_08

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N10.

L3BN 30 09

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 10) and remains in N10.

L3BN 30 10

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 10) and remains in N10.

L3BN 30 11

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN 30 12

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 10) and remains in N10.

L3BN_30_13

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N10.

L3BN_30_14

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 10) and remains in N10.

L3BN_30_15

Ensure that the IUT in N10, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN_30_16

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element missing),

- sends a STATUS message (Cause value = 96, call state value = 10) and remains in N10.

L3BN_30_17

Ensure that the IUT in N10, on receipt of a RELEASE message (Cause information element missing),

- sends a RELEASE COMPLETE message (Cause value = 96) and enters N0.

L3BN_30_18

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN 30 19

Ensure that the IUT in N10, on receipt of a RELEASE message (Cause information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters No.

L3BN 30 20

Ensure that the IUT in N10, on receipt of a RELEASE message (Cause information element with content error present, IE instruction field flag = follow explicit instructions),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 30 21

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 100) and enters N12.

L3BN_30_22

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN_30_23

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N10.

L3BN 30 24

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN 30 25

Ensure that the IUT in N10, on receipt of a RELEASE message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 99) and enters N0.

L3BN 30 26

Ensure that the IUT in N10, on receipt of a RELEASE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions),

- sends a RELEASE COMPLETE message (Cause value = 99) and enters N0.

L3BN_30_27

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 99) and enters N12.

L3BN 30 28

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN_30_29

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

sends no message and remains in N10.

L3BN 30 30

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN 30 31

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and remains in N10.

L3BN_30_32

Ensure that the IUT in N10, on receipt of a NOTIFY message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN 30 33

Ensure that the IUT in N10, on receipt of a RELEASE message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN_30_34

Ensure that the IUT in N10, on receipt of a RELEASE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 30 35

Ensure that the IUT in N10, on receipt of an AAL-ESTABLISH-indication primitive,

- sends a STATUS ENQUIRY message and remains in N10.

L3BN 30 36

Ensure that the IUT in N10, after having sent an AAL-ESTABLISH-request primitive in response to an AAL-RELEASE-indication primitive, on receipt of an AAL-ESTABLISH-confirm primitive,

- sends a STATUS ENQUIRY message and remains in N10.

L3BN 30 37

Ensure that the IUT in N10, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 10) and remains in N10.

L3BN 30 38

Ensure that the IUT in N10, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.8 Error handling in N10 - outgoing call (31)

L3BN 31 01

Ensure that the IUT in N10, on receipt of a RELEASE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N10.

L3BN_31_02

Ensure that the IUT in N10, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N10.

L3BN 31 03

Ensure that the IUT in N10, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N10.

L3BN 31 04

Ensure that the IUT in N10, on receipt of a RELEASE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in N10.

L3BN 31 05

Ensure that the IUT in N10, on receipt of a SETUP message (Call reference value already in use),

- sends no message and remains in N10.

L3BN 31 06

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 10) and remains in N10.

L3BN 31 07

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 101) and enters N12.

L3BN_31_08

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 10) and remains in N10.

L3BN 31 09

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N10.

L3BN 31 10

Ensure that the IUT in N10, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 10) and remains in N10.

L3BN 31 11

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 10) and remains in N10.

L3BN 31 12

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends a RELEASE message (Cause value = 97) and enters N12.

L3BN_31_13

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 10) and remains in N10.

L3BN 31 14

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N10.

L3BN_31_15

Ensure that the IUT in N10, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 10) and remains in N10.

L3BN 31 16

Ensure that the IUT in N10, on receipt of a RELEASE COMPLETE message,

- sends no message and enters N0.

L3BN 31 17

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element missing),

- sends a STATUS message (Cause value = 96, call state value = 10) and remains in N10.

L3BN_31_18

Ensure that the IUT in N10, on receipt of a RELEASE message (Cause information element missing),

- sends a RELEASE COMPLETE message (Cause value = 96) and enters N0.

L3BN 31 19

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN_31_20

Ensure that the IUT in N10, on receipt of a RELEASE message (Cause information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 31 21

Ensure that the IUT in N10, on receipt of a RELEASE message (Cause information element with content error present, IE instruction field flag = follow explicit instructions),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters N0.

L3BN_31_22

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 100) and enters N12.

L3BN 31 23

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN 31 24

Ensure that the IUT in N10, on receipt of a NOTIFY message (Notification indicator information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N10.

L3BN 31 25

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN 31 26

Ensure that the IUT in N10, on receipt of a RELEASE message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 99) and enters N0.

L3BN_31_27

Ensure that the IUT in N10, on receipt of a RELEASE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions),

- sends a RELEASE COMPLETE message (Cause value = 99) and enters N0.

I 3RN 31 28

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 99) and enters N12.

L3BN_31_29

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status).

- sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN 31 30

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N10.

L3BN 31 31

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN 31 32

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and remains in N10.

L3BN_31_33

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 99, call state value = 10) and remains in N10.

L3BN_31_34

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN 31 35

Ensure that the IUT in N10, on receipt of a RELEASE message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 31 36

Ensure that the IUT in N10, on receipt of a RELEASE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions),

- sends a RELEASE COMPLETE message (Cause value = 100) and enters NO.

L3BN 31 37

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends a RELEASE message (Cause value = 100) and enters N12.

L3BN_31_38

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN 31 39

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in N10.

L3BN 31 40

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed and report status),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN 31 41

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and remains in N10.

L3BN 31 42

Ensure that the IUT in N10, on receipt of a CONNECT ACKNOWLEDGE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Cause value = 100, call state value = 10) and remains in N10.

L3BN_31_43

Ensure that the IUT in N10, on receipt of an AAL-ESTABLISH-indication primitive,

- sends a STATUS ENQUIRY message and remains in N10.

L3BN_31_44

Ensure that the IUT in N10, after having sent an AAL-ESTABLISH-request primitive in response to an AAL-RELEASE-indication primitive, on receipt of an AAL-ESTABLISH-confirm primitive,

- sends a STATUS ENQUIRY message and remains in N10.

L3BN 31 45

Ensure that the IUT in N10, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 10) and remains in N10.

L3BN_31_46

Ensure that the IUT in N10, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.9 Error handling in N12 - incoming call (32)

L3BN 32 01

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N12.

L3BN 32 02

Ensure that the IUT in N12, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N12.

L3BN_32_03

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N12.

L3BN 32 04

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in N12.

L3BN 32 05

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 101, call state value = 12) and remains in N12.

L3BN_32_06

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends no message and remains in N12.

L3BN_32_07

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 12) and remains in N12.

L3BN 32 08

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N12.

L3BN_32_09

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 12) and remains in N12.

L3BN_32_10

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 12) and remains in N12.

L3BN_32_11

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends no message and remains in N12.

L3BN 32 12

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 12) and remains in N12.

L3BN_32_13

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N12.

L3BN 32 14

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 12) and remains in N12.

L3BN_32_15

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message and enters N0.

L3BN 32 16

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions),

- sends no message and enters N0.

L3BN_32_17

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends no message and enters N0.

L3BN 32 18

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions),

- sends no message and enters N0.

L3BN 32 19

Ensure that the IUT in N12, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message and remains in N12.

L3BN_32_20

Ensure that the IUT in N12, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 12) and remains in N12.

L3BN 32 21

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 1),

- sends no message and remains in N12.

L3BN 32 22

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 3),

sends no message and remains in N12.

L3BN 32 23

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 4),

- sends no message and remains in N12.

L3BN_32_24

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 6),

- sends no message and remains in N12.

L3BN_32_25

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 7),

- sends no message and remains in N12.

L3BN 32 26

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 8),

- sends no message and remains in N12.

L3BN 32 27

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 9),

- sends no message and remains in N12.

L3BN_32_28

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 10),

- sends no message and remains in N12.

L3BN 32 29

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 11),

- sends no message and remains in N12.

L3BN_32_30

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 12),

- sends no message and remains in N12.

L3BN 32 31

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.10 Error handling in N12 - outgoing call (33)

L3BN 33 01

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in N12.

L3BN 33 02

Ensure that the IUT in N12, on receipt of a message which is too short (Message length information element incomplete),

- sends no message and remains in N12.

L3BN_33_03

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in N12.

L3BN 33 04

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in N12.

L3BN_33_05

Ensure that the IUT in N12, on receipt of a SETUP message (Call reference value already in use),

- sends no message and remains in N12.

L3BN 33 06

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = message instruction field not significant).

- sends a STATUS message (Cause value = 101, call state value = 12) and remains in N12.

L3BN_33_07

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends no message and remains in N12.

L3BN_33_08

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 101, call state value = 12) and remains in N12.

L3BN 33 09

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N12.

L3BN 33 10

Ensure that the IUT in N12, on receipt of an unexpected message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 101, call state value = 12) and remains in N12.

L3BN 33 11

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = message instruction field not significant),

- sends a STATUS message (Cause value = 97, call state value = 12) and remains in N12.

L3BN_33_12

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = clear call),

- sends no message and remains in N12.

L3BN 33 13

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and report status),

- sends a STATUS message (Cause value = 97, call state value = 12) and remains in N12.

L3BN_33_14

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = discard and ignore),

- sends no message and remains in N12.

L3BN 33 15

Ensure that the IUT in N12, on receipt of an unrecognized message (Message type flag = follow explicit instructions, Message action indicator = reserved value),

- sends a STATUS message (Cause value = 97, call state value = 12) and remains in N12.

L3BN 33 16

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message and enters N0.

L3BN_33_17

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions),

- sends no message and enters N0.

L3BN_33_18

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Optional information element with content error present, IE instruction field flag = IE instruction field not significant),

- sends no message and enters N0.

L3BN_33_19

Ensure that the IUT in N12, on receipt of a RELEASE COMPLETE message (Optional information element with content error present, IE instruction field flag = follow explicit instructions),

- sends no message and enters N0.

L3BN 33 20

Ensure that the IUT in N12, on receipt of an AAL-ESTABLISH-indication primitive,

- sends no message and remains in N12.

L3BN_33_21

Ensure that the IUT in N12, on receipt of a STATUS ENQUIRY message,

- sends a STATUS message (Cause value = 30, call state value = 12) and remains in N12.

L3BN_33_22

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 1),

- sends no message and remains in N12.

L3BN_33_23

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 3),

- sends no message and remains in N12.

L3BN 33 24

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 4),

- sends no message and remains in N12.

L3BN_33_25

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 6),

- sends no message and remains in N12.

L3BN 33 26

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 7),

- sends no message and remains in N12.

L3BN 33 27

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 8),

- sends no message and remains in N12.

L3BN 33 28

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 9),

- sends no message and remains in N12.

L3BN_33_29

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 10),

- sends no message and remains in N12.

L3BN 33 30

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 11),

- sends no message and remains in N12.

L3BN 33 31

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 12),

- sends no message and remains in N12.

L3BN 33 32

Ensure that the IUT in N12, on receipt of a STATUS message (Call state value = 0),

- sends no message and enters N0.

5.2.1.5.11 Error handling in R0 (34)

L3BN_34_01

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in Rest 0.

L3BN 34 02

Ensure that the IUT in Rest 0, on receipt of a message which is too short (Call reference value = global call reference, message length information element incomplete),

- sends no message and remains in Rest 0.

L3BN_34_03

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in Rest 0.

L3BN 34 04

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in Rest 0.

L3BN 34 05

Ensure that the IUT in Rest 0, on receipt of an ALERTING message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 06

Ensure that the IUT in Rest 0, on receipt of a CALL PROCEEDING message (Call reference value = global call reference).

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 07

Ensure that the IUT in Rest 0, on receipt of a CONNECT message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN_34_08

Ensure that the IUT in Rest 0, on receipt of a CONNECT ACKNOWLEDGE message (Call reference value = global call reference).

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 09

Ensure that the IUT in Rest 0, on receipt of a NOTIFY message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 10

Ensure that the IUT in Rest 0, on receipt of a RELEASE message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 11

Ensure that the IUT in Rest 0, on receipt of a RELEASE COMPLETE message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN_34_12

Ensure that the IUT in Rest 0, on receipt of a SETUP message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 13

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Call reference flag = 1),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 0) and remains in Rest 0.

L3BN 34 14

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator information element absent),

- sends a STATUS message (Call reference value = global call reference, cause value = 96, call state value = Rest 0) and remains in Rest 0.

L3BN_34_15

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator information element with contents error present, IE instruction field flag = IE instruction field not significant),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 0) and remains in Rest 0.

L3BN 34 16

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator information element with contents error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and remains in Rest 0.

L3BN_34_17

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator information element with contents error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 0) and remains in Rest 0.

L3BN 34 18

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Restart indicator information element with contents error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 0.

L3BN_34_19

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

optionally sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 2) followed by a RESTART ACKNOWLEDGE message and re-enters Rest 0.

L3BN_34_20

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and remains in Rest 0.

L3BN 34 21

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 0) and remains in Rest 0.

L3BN 34 22

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 0.

L3BN_34_23

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed, and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 2) followed by a RESTART ACKNOWLEDGE message and re-enters Rest 0.

L3BN 34 24

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends a RESTART ACKNOWLEDGE message and re-enters Rest 0.

L3BN_34_25

Ensure that the IUT in Rest 0, on receipt of a RESTART message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 2) followed by a RESTART ACKNOWLEDGE message and re-enters Rest 0.

L3BN_34_26

Ensure that the IUT in Rest 0, on receipt of a STATUS ENQUIRY message (Call reference value = global call reference).

- sends a STATUS message (Call reference value = global call reference, cause value = 30, call state value = Rest 0) and remains in Rest 0.

L3BN 34 27

Ensure that the IUT in Rest 0, on receipt of a STATUS message (Call state value = Rest 0),

- sends no message and remains in Rest 0.

5.2.1.5.12 Error handling in R1 (35)

L3BN 35 01

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Protocol discriminator coded other than Q.2931 user-network call control message),

- sends no message and remains in Rest 1.

L3BN 35 02

Ensure that the IUT in Rest 1, on receipt of a message which is too short (Call reference value = global call reference, message length information element incomplete),

- sends no message and remains in Rest 1.

L3BN_35_03

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Call reference with invalid format, octet 1, bits $8 - 5 \neq 0000$ 'B),

- sends no message and remains in Rest 1.

L3BN 35 04

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Call reference with invalid format, octet 1, bits $4 - 1 \neq 0011$ 'B),

- sends no message and remains in Rest 1.

L3BN 35 05

Ensure that the IUT in Rest 1, on receipt of an ALERTING message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN 35 06

Ensure that the IUT in Rest 1, on receipt of a CALL PROCEEDING message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN 35 07

Ensure that the IUT in Rest 1, on receipt of a CONNECT message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN_35_08

Ensure that the IUT in Rest 1, on receipt of a CONNECT ACKNOWLEDGE message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN_35_09

Ensure that the IUT in Rest 1, on receipt of a NOTIFY message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN_35_10

Ensure that the IUT in Rest 1, on receipt of a RELEASE message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN 35 11

Ensure that the IUT in Rest 1, on receipt of a RELEASE COMPLETE message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN 35 12

Ensure that the IUT in Rest 1, on receipt of a SETUP message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN 35 13

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Call reference flag = 0),

- sends a STATUS message (Call reference value = global call reference, cause value = 81, call state value = Rest 1) and remains in Rest 1.

L3BN 35 14

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Restart indicator information element absent),

- sends a STATUS message (Call reference value = global call reference, cause value = 96, call state value = Rest 1) and remains in Rest 1.

L3BN 35 15

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Restart indicator information element with contents error present, IE instruction field flag = IE instruction field not significant),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 1) and remains in Rest 1.

L3BN 35 16

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Restart indicator information element with contents error present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and enters Rest 0.

L3BN 35 17

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Restart indicator information element with contents error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 100, call state value = Rest 1) and remains in Rest 1.

L3BN_35_18

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Restart indicator information element with contents error present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 1.

L3BN_35_19

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = IE instruction field not significant),

- sends no message or optionally sends a STATUS message (Call reference value = global call reference, cause value = 99) and remains in Rest 1.

L3BN 35 20

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = clear call),

- sends no message and enters Rest 0.

L3BN 35 21

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 1) and remains in Rest 1.

L3BN 35 22

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard message),

- sends no message and remains in Rest 1.

L3BN_35_23

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element, proceed, and report status),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 0) and enters Rest 0.

L3RN 35 24

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = discard information element and proceed),

- sends no message and enters Rest 0.

L3BN 35 25

Ensure that the IUT in Rest 1, on receipt of a RESTART ACKNOWLEDGE message (Unrecognized information element present, IE instruction field flag = follow explicit instructions, IE action indicator = reserved value),

- sends a STATUS message (Call reference value = global call reference, cause value = 99, call state value = Rest 0) and enters Rest 0.

L3BN 35 26

Ensure that the IUT in Rest 1, on receipt of a STATUS ENQUIRY message (Call reference value = global call reference),

- sends a STATUS message (Call reference value = global call reference, cause value = 30, call state value = Rest 1) and remains in Rest 1.

5.2.1.6 Notification procedures (36)

Test purposes for EN 300 443-1 [1] subclause 5.9.

L3BN 36 01

Ensure that the IUT in N10 (incoming call), to provide notifications,

- sends a NOTIFY message and remains in N10.

L3BN_36_02

Ensure that the IUT in N10 (outgoing call), to provide notifications,

- sends a NOTIFY message and remains in N10.

L3BN 36 03

Ensure that the IUT in N3, on receipt of a NOTIFY message,

- sends no message and remains in N3.

L3BN 36 04

Ensure that the IUT in N4, on receipt of a NOTIFY message,

- sends no message and remains in N4.

L3BN 36 05

Ensure that the IUT in N7, on receipt of a NOTIFY message,

- sends no message and remains in N7.

L3BN_36_06

Ensure that the IUT in N9, on receipt of a NOTIFY message,

- sends no message and remains in N9.

L3BN_36_07

Ensure that the IUT in N10 (incoming call), on receipt of a NOTIFY message,

- sends no message and remains in N10.

L3BN 36 08

Ensure that the IUT in N10 (outgoing call), on receipt of a NOTIFY message,

- sends no message and remains in N10.

5.2.2 Signalling procedures for interworking between N-ISDN and B-ISDN

Test purposes for EN 300 443-1 [1] subclause 6.

Selection: Additional procedures for the provision of 64 kbit/s circuit-mode services supported. PICS:

MCn 9.

5.2.2.1 Interworking N-ISDN -> B-ISDN (37)

Test purposes for EN 300 443-1 [1] subclauses 6.3 and 6.5.

L3BN 37 01

Ensure that the IUT in N0, on receipt of a SETUP message (Broadband bearer capability present, bearer class = BCOB-A, susceptibility to clipping = susceptible to clipping, Narrowband bearer capability present, Broadband sending complete and complete address information present),

- sends a CALL PROCEEDING message and enters N3.

L3BN 37 02

Ensure that the IUT in N0, on receipt of a SETUP message (Broadband bearer capability present, bearer class = BCOB-A, susceptibility to clipping = susceptible to clipping, Narrowband bearer capability present, Broadband sending complete absent, called party number absent),

- sends a SETUP ACKNOWLEDGE message and enters N2.

5.2.2.2 Interworking B-ISDN -> N-ISDN (38)

Test purposes for EN 300 443-1 [1] subclause 6.4.

L3BN_38_01

Ensure that the IUT in N0, to indicate the arrival of a call which originated in the N-ISDN,

- sends a SETUP message (Narrowband bearer capability present) and enters N6.

L3BN 38 02

Ensure that the IUT in N0, to indicate the arrival of a call which originated in the N-ISDN and to provide narrowband high layer compatibility information,

- sends a SETUP message (Narrowband bearer capability present, Narrowband high layer compatibility present) and enters N6.

L3BN_38_03

Ensure that the IUT in N0, to indicate the arrival of a call which originated in the N-ISDN and to provide narrowband low layer compatibility information,

- sends a SETUP message (Narrowband bearer capability present, Narrowband low layer compatibility present) and enters N6.

6 Compliance

An ATS which complies with this TSS&TP specification shall:

- a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 5;
- b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 4;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 5 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;
- e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 5 shall be included in a compliant ATS.

7 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [4], shall be used by any organization claiming to provide a comprehensive testing service for network equipment claiming conformance to EN 300 443-1 [1].

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".

History

Document history		
V1.1.3	November 1999	Publication
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