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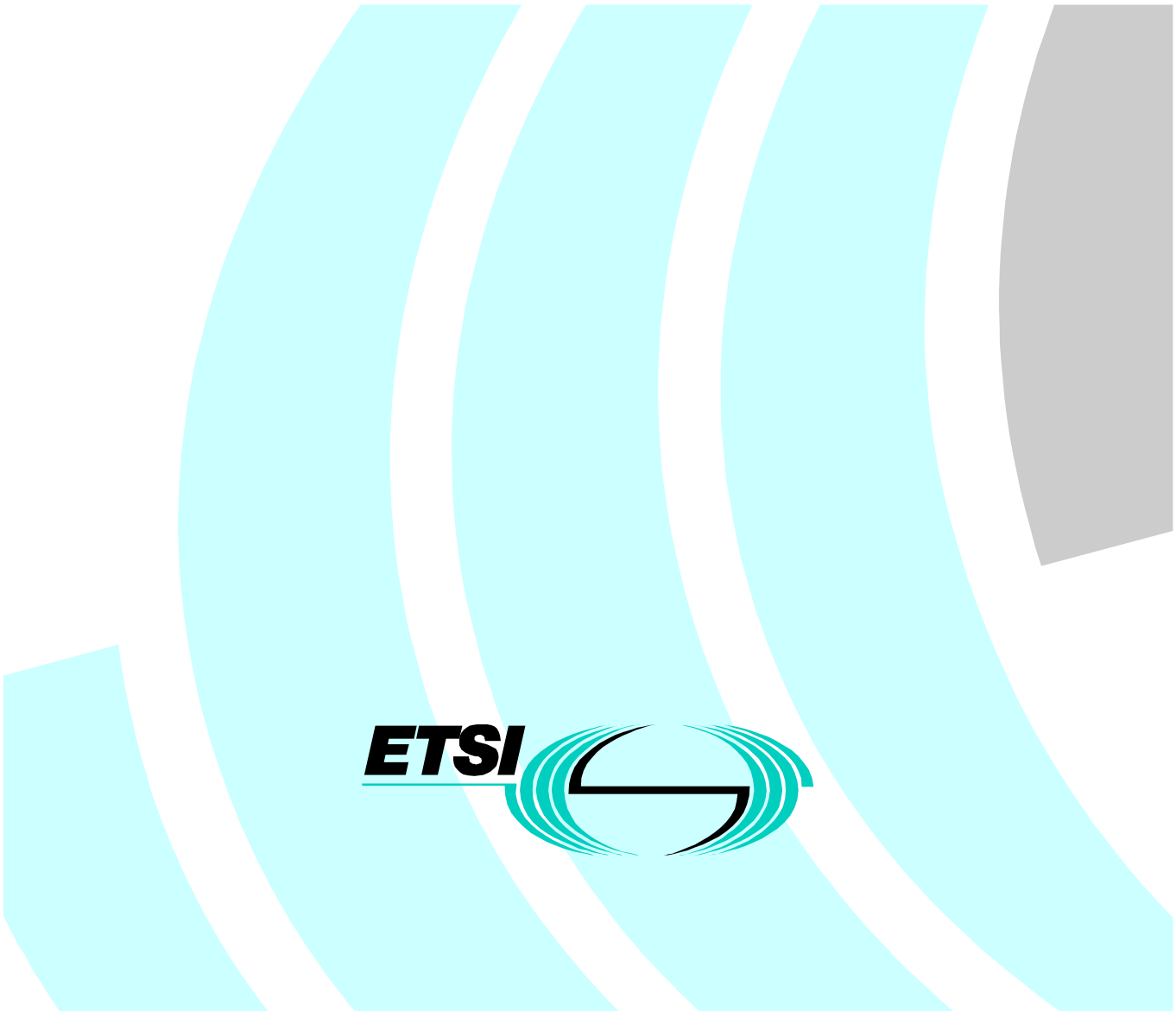
European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network



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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document is part 5 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) User-to-User (UUS) supplementary service, 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".

The present version updates the references to the basic call specifications.

National transposition dates	
Date of adoption of this EN:	19 June 1998
Date of latest announcement of this EN (doa):	30 September 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 1999
Date of withdrawal of any conflicting National Standard (dow):	31 March 1999

1 Scope

This fifth part of EN 300 286 specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Network side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [7]) of implementations conforming to the stage three standard for the User-to-User Signalling (UUS) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 286-1 [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. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to EN 300 286-1 [1].

2 Normative references

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or

b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case 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] EN 300 286-1 (V1.2): "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[2] EN 300 286-2 (V1.2): "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[3] ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".

[4] ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".

[5] ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".

[6] EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[7] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

[8] EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

[9] ITU-T Recommendation I.112: "Vocabulary and terms for ISDNs".

[10] CCITT Recommendation E.164: "Numbering plan for the ISDN era".

[11] ITU-T Recommendation I.210: "Principles of the telecommunication services supported by an ISDN and the means to describe them".

[12] EN 300 403-3: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".

3 Definitions

For the purposes of the present document, the following definitions apply.

3.1 Definitions related to conformance testing

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

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

active test: A test case where the IUT is required to send a particular message, but not in reaction to a received message. This would usually involve the use of PIXIT information to see how this message can be generated and quite often is specified in an ATS using an implicit send event.

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

implicit send event: Refer to ISO/IEC 9646-3 [5].

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

passive test: A test case where the IUT is required to respond to a protocol event (e.g. received message) with another protocol event (e.g. send message) which normally does not require any special operator intervention as associated with the implicit send event.

point of control and observation: 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].

system under test: Refer to ISO/IEC 9646-1 [3].

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

3.2 Definitions related to EN 300 286-1

call reference: See EN 300 403-1 [8], subclause 4.3.

called user: The user at the destination side of the call.

calling user: The user at the origination side of the call.

component: See EN 300 196-1 [6], subclause 11.2.2.1.

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [9], definition 308.

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [10].

invoke component: See EN 300 196-1 [6], subclause 11.2.2.1.

network: The DSS1 protocol entity at the Network side of the user-network interface where a T reference point or coincident S and T reference point applies.

network (S/T): The DSS1 protocol entity at the Network side of the user-network interface where a coincident S and T reference point applies.

network (T): The DSS1 protocol entity at the Network side of the user-network interface where a T reference point applies (Network connected to Private ISDN).

return error component: See EN 300 196-1 [6], subclause 11.2.2.1.

return result component: See EN 300 196-1 [6], subclause 11.2.2.1.

served user: The served user is the user who invokes the UUS supplementary service. The served user is the calling user except for service 3 where the called user, as a network option can invoke the service 3 in the Active call state.

service; telecommunication service: See ITU-T Recommendation I.112 [9], definition 201.

supplementary service: See ITU-T Recommendation I.210 [11], subclause 2.4.

4 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CES	Connection Endpoint Suffix
CR	Call Reference
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
N00	Null call state
N01	Call Initiated call state
N02	Overlap Sending call state
N03	Outgoing Call Proceeding call state
N04	Call Delivered call state
N06	Call Present call state
N07	Call Received call state
N08	Connect Request call state
N09	Incoming Call Proceeding call state
N10	Active call state
N11	Disconnect Request call state
N12	Disconnect Indication call state
N19	Release Request call state
N25	Overlap Receiving call state
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure
UUS	User-to-User Signalling
UUS1/2/3	UUS service 1/2/3

5 Test Suite Structure (TSS)

Served user	**Group**
· Service 1	
· activation	
· implicit	(01)
· explicit	(02)
· invocation	
· during call establishment	(03)
· during call clearing	
· initiated by the calling user	(04)
· initiated by the called user	(05)
· Service 2	
· activation	(06)
· invocation	(07)
· Service 3	
· activation	
· during call establishment	(08)
· during active call state	(09)
· invocation	(10)
· flow control	(11)

Remote user	**Group**
- Service 1	
- activation	
- implicit	(12)
- explicit	(13)
- invocation	
- during call establishment	(14)
- during call clearing	
- initiated by the calling user	(15)
- initiated by the called user	(16)
- Service 2	
- activation	(17)
- invocation	(18)
- Service 3	
- activation	
- during call establishment	(19)
- during active call state	(20)
- invocation	(21)
- flow control	(22)

NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier: **<ss>_<iut><group>_<nnn>**				
<ss>	=	supplementary service:	e.g. "UUS"	
<iut>	=	type of IUT:	U N	User Network
<group>	=	group	2 digit field representing group reference according to TSS	
<nnn>	=	sequential number	(001-999)	

6.1.2 Source of TP definition

The TPs are based on EN 300 286-1 [1].

6.1.3 TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used and this is illustrated in table 2. This table should be read in conjunction with any TP, i.e. use a TP as an example to fully understand the table.

Table 2: Structure of a single TP for UUS

TP part	Text	Example
Header	<Identifier> *tab* <paragraph number in base ETS> *tab* <type of test> *tab* <condition> *CR.*	see table 1 subclause 0.0.0 valid, invalid, inopportune mandatory, optional, conditional
Stimulus	Ensure that the IUT in the <basic call state> <trigger> *see below for message structure* *or* <goal>	 N10 etc. receiving a XXXX message to request a ...
Reaction	<action> <conditions> *if the action is sending* *see below for message structure* <next action>, *etc.* and remains in the same state *or* and enters state <state>	sends, saves, does, etc. using en bloc sending, ...
Message structure	<message type> message containing a *a)* <info element> information element with *b)* a <field name> encoded as *or* including <coding of the field> and *back to a or b,*	SETUP, FACILITY, CONNECT, ... Bearer capability, Facility, ...
NOTE: Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one TP to the next.		

6.1.4 Test strategy

As the base standard EN 300 286-1 [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 300 286-2 [2]. The criteria applied include the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the TP is not considered.

6.1.5 Test of point-to-multipoint configurations

In the case of a point-to-multipoint configuration several terminals may be attached to one basic access interface. Each terminal will use a different Connection Endpoint Suffix (CES). To reflect this in the TPs, the CES for which a message is received or sent (e.g. "...on receipt of an ALERTING message for CES1...") is named explicitly where this clarification is needed.

6.2 Network TPs for UUS

All PICS items referred to in this subclause are as specified in EN 300 286-2 [2] unless indicated otherwise by another numbered reference.

6.2.1 Served user

6.2.1.1 Service 1

Selection: Does the IUT support service 1? PICS: MC 2.1.

6.2.1.1.1 Activation

6.2.1.1.1.1 Implicitly requested

UUS_N01_001 subclause 9.1.1.1.1 valid mandatory
Ensure that the IUT, in the call state N00, receiving a valid SETUP message with a User-user information element without user information and the network can accept the request,
accepts the message (resulting in the inclusion of the same User-user information element in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N01_002 subclause 9.1.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N00, receiving a valid SETUP message with a User-user information element without user information and the network cannot accept the request,
discards the User-user information element (resulting in the sending of a SETUP message without User-user information element to the remote user) and enters the call state N01.

UUS_N01_003 subclause 9.1.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N00, receiving a valid SETUP message with a User-user information element of less than 3 octets in length,
discards the User-user information element (resulting in the sending of a SETUP message without User-user information element to the remote user) and enters the call state N01.

6.2.1.1.1.2 Explicitly requested

Selection: Does the IUT support the explicit request of service 1? PICS: MC 2.1.2.

UUS_N02_001 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred,
accepts the message (resulting in the inclusion of the same Facility information element in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N02_002 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required,
accepts the message (resulting in the inclusion of the same Facility information element in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N02_003 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 and an incompatible bearer capability,
sends a RELEASE COMPLETE message without UserUserService return error component and enters the call state N00.

UUS_N02_004 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred and the resources are not available,
continues with normal call handling and includes a UserUserService return error component with the value "rejectedByNetwork" in a valid SETUP ACKNOWLEDGE, CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message.

UUS_N02_005 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred and the service 1 is not subscribed to,
continues with normal call handling and includes a UserUserService return error component with the value "rejectedByNetwork" in a valid SETUP ACKNOWLEDGE, CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message.

UUS_N02_006 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required and the resources are not available,
sends a DISCONNECT or RELEASE COMPLETE message, with cause value #47 "resources unavailable", including a UserUserService return error component with the value "rejectedByNetwork" and enters the call state N12 or N00.

UUS_N02_007 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required and the service 1 is not subscribed to,
sends a DISCONNECT or RELEASE COMPLETE message, with cause value #50 "requested facility not subscribed", including a UserUserService return error component with the value "rejectedByNetwork" and enters the call state N12 or N00.

6.2.1.1.2 Invocation

6.2.1.1.2.1 During call establishment

UUS_N03_001 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N00, receiving a valid SETUP message including a User-user information element with user information,
accepts the message (resulting in the sending of a SETUP message to the remote user with the same User-user information element) sends a SETUP ACKNOWLEDGE or a CALL PROCEEDING message and enters the call state N02 or N03.

NOTE: This TP corresponds to the invocation of service 1 simultaneously with the activation by the same User-user information element.

UUS_N03_002 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N00, receiving a valid SETUP message including a UserUserService invoke component indicating service 1 and a User-user information element with user information,
accepts the message (resulting in the sending of a SETUP message to the remote user with the same UserUserService invoke component and User-user information element) sends a SETUP ACKNOWLEDGE or a CALL PROCEEDING message and enters the call state N02 or N03.

UUS_N03_003 subclause 9.1.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N00, receiving a valid SETUP message including a User-user information element with user information with an overall length exceeding 131 octets,
discards the User-user information element (resulting in the sending of a SETUP message without User-user information element to the remote user) sends a SETUP ACKNOWLEDGE or a CALL PROCEEDING messageand optionally sends a STATUS message with cause value #43 "access information discarded".

6.2.1.1.2.2 During call clearing

6.2.1.1.2.2.1 Clearing initiated by the calling user

UUS_N04_001 subclause 9.1.2.2.1.a valid mandatory
Ensure that the IUT, in the call state N02 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element,
accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to the remote user), sends a RELEASE message and enters the call state N19.

UUS_N04_002 subclause 9.1.2.2.1.a valid mandatory
Ensure that the IUT, in the call state N03 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element,
accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to the remote user), sends a RELEASE message and enters the call state N19.

UUS_N04_003 subclause 9.1.2.2.1.a valid mandatory
Ensure that the IUT, in the call state N04 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element,

accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to the remote user), sends a RELEASE message and enters the call state N19.

UUS_N04_004 subclause 9.1.2.2.1.a valid mandatory
Ensure that the IUT, in the call state N10 (outgoing call) and in the service 1 active state, receiving a DISCONNECT message with a User-user information element,

accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to the remote user), sends a RELEASE message and enters the call state N19.

UUS_N04_005 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N02, with the service 1 not activated, receiving a DISCONNECT message with a User-user information element,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_006 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N03, with the service 1 not activated, receiving a DISCONNECT message with a User-user information element,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_007 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N04, with the service 1 not activated, receiving a DISCONNECT message with a User-user information element,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_008 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N10 (outgoing call), with the service 1 not activated, receiving a DISCONNECT message with a User-user information element,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_009 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N02 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element with the overall length exceeding 131 octets,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_010 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N03 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element with the overall length exceeding 131 octets,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_011 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N04 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element with the overall length exceeding 131 octets,

discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

UUS_N04_012 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N10 and in the service 1 active state, receiving a DISCONNECT message with a User-user information element with the overall length exceeding 131 octets,
discards the User-user information element (resulting in the sending of a DISCONNECT or RELEASE message to the remote user without User-user information element), sends a RELEASE message optionally including a Cause information element with the cause value #43 "access information discarded" and enters the call state N19.

6.2.1.1.2.2.2 Clearing initiated by the called user

No test requirement for this group.

6.2.1.2 Service 2

Selection: Does the IUT support service 2? PICS: MC 2.2.

6.2.1.2.1 Activation

UUS_N06_001 subclause 9.2.1.1 valid mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred,
accepts the message (resulting in the inclusion of a Facility information element including a UserUserService invoke component indicating service 2 preferred in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N06_002 subclause 9.2.1.1 valid mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required,
accepts the message (resulting in the inclusion of a Facility information element including a UserUserService invoke component indicating service 2 required in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N06_003 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 and an incompatible bearer capability,
sends a RELEASE COMPLETE message without UserUserService return error component and enters the call state N00.

UUS_N06_004 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred and the resources are not available,
continues with normal call handling and includes a UserUserService return error component with the value "rejectedByNetwork" in a valid SETUP ACKNOWLEDGE, CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message.

UUS_N06_005 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred and the service 2 is not subscribed to,
continues with normal call handling and includes a UserUserService return error component with the value "rejectedByNetwork" in a valid SETUP ACKNOWLEDGE, CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message.

UUS_N06_006 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required and the resources are not available,
sends a DISCONNECT or RELEASE COMPLETE message, with cause value #47 "resources unavailable", including a UserUserService return error component with the value "rejectedByNetwork" and enters the call state N12 or N00.

UUS_N06_007 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required and the service 2 is not subscribed to,
sends a DISCONNECT or RELEASE COMPLETE message, with cause value #50 "requested facility not subscribed", including a UserUserService return error component with the value "rejectedByNetwork" and enters the call state N12 or N00.

UUS_N06_008 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, to indicate that the called network which does not know that a point-to-point arrangement exists at the remote user's interface, has rejected the service 2 request,
continues normal call handling, sends an ALERTING message with a Facility information element including a UserUserService return error component with the value "rejectedByUser" and enters the call state N04.

UUS_N06_009 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, to indicate that the called network which does not know that a point-to-point arrangement exists at the remote users interface, has rejected the service 2 request,
sends a DISCONNECT message with a Facility information element including a UserUserService return error component with the value "rejectedByUser" and cause value #69 "requested facility not implemented" and enters the call state N12.

6.2.1.2.2 Invocation

UUS_N07_001 subclause 9.2.2.1 valid mandatory
Ensure that the IUT, in the call state N04 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element and no More data information element,
accepts the message (resulting in the sending of a USER INFORMATION message to the served user with a User-user information element and no More data information element), sends no message and remains in the same state.

UUS_N07_002 subclause 9.2.2.1 valid mandatory
Ensure that the IUT, in the call state N04 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element and a More data information element,
accepts the message (resulting in the sending of a USER INFORMATION message to the served user with a User-user information element and a More data information element), sends no message and remains in the same state.

UUS_N07_003 subclause 9.2.2.1 valid mandatory
Ensure that the IUT, in the call state N04 and in the service 2 active state, receiving two USER INFORMATION messages both including a User-user information element,
accepts the messages (resulting in the sending of two USER INFORMATION messages to the served user with a User-user information element), sends no message and remains in the same state.

UUS_N07_004 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N04, with service 2 not activated, receiving a USER INFORMATION message including a User-user information element,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N07_005 subclause 9.2.2.2 invalid optional
Ensure that the IUT, in the call state N10, with service 2 not activated, receiving a USER INFORMATION message including a User-user information element,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

Selection: In Service 2, ability to accept USER INFORMATION messages for delivery in call state N10
PICS: SC 6.1.

UUS_N07_006 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N04 and in the service 2 active state, receiving three USER INFORMATION messages both including a User-user information element,
discards the third message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N07_007 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N04 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element with an overall length exceeding 131 octets,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N07_008 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N03, receiving a USER INFORMATION message including a User-user information element,
discards the message and sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state";
or
sends a STATUS ENQUIRY message and remains in the same state.

UUS_N07_009 subclause 9.2.2.2 invalid optional
Ensure that the IUT, in the call state N10, receiving a USER INFORMATION message including a User-user information element,
discards the message and sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state";
or
sends a STATUS ENQUIRY message and remains in the same state.

Selection: In service 2, ability to accept USER INFORMATION messages for delivery in call state N10 NOT supported. PICS: NOT SC 6.1.

UUS_N07_010 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N12, receiving a USER INFORMATION message including a User-user information element,
discards the message and sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state";
or
sends a STATUS ENQUIRY message and remains in the same state.

UUS_N07_011 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N19, receiving a USER INFORMATION message including a User-user information element,
discards the message and sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state";
or
sends a STATUS ENQUIRY message and remains in the same state.

6.2.1.3 Service 3

Selection: Does the IUT support service 3? PICS: MC 2.3.

6.2.1.3.1 Activation

6.2.1.3.1.1 During call establishment

UUS_N08_001 subclause 9.3.1.1.1 valid mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred,
accepts the message (resulting in the inclusion of a UserUserService invoke component indicating service 3 preferred in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N08_002 subclause 9.3.1.1.1 valid mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required,
accepts the message (resulting in the inclusion of a UserUserService invoke component indicating service 3 required in the SETUP message sent to the remote user) and enters the call state N01.

UUS_N08_003 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 and an incompatible bearer capability,
sends a RELEASE COMPLETE message without UserUserService return error component and enters the call state N00.

UUS_N08_004 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred and the resources are not available,
continues with normal call handling and includes a UserUserService return error component with the value "rejectedByNetwork" in a valid SETUP ACKNOWLEDGE, CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message.

UUS_N08_005 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred and the service 3 is not subscribed to,
continues with normal call handling and includes a UserUserService return error component with the value "rejectedByNetwork" in a valid SETUP ACKNOWLEDGE, CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message.

UUS_N08_006 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required and the resources are not available,
sends a DISCONNECT or RELEASE COMPLETE message, with cause value #47 "resources unavailable", including a UserUserService return error component with the value "rejectedByNetwork" and enters the call state N12 or N00.

UUS_N08_007 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N00 receiving a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required and the service 3 is not subscribed to,
sends a DISCONNECT or RELEASE COMPLETE message, with cause value #50 "requested facility not subscribed", including a UserUserService return error component with the value "rejectedByNetwork" and enters the call state N12 or N00.

6.2.1.3.1.2 During active call state

UUS_N09_001 subclause 9.3.1.2.1 valid mandatory
Ensure that the IUT, in the call state N10, receiving a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService invoke component indicating service 3 preferred in the FACILITY message sent to the remote user), sends no message and remains in the same state.

UUS_N09_002 subclause 9.3.1.2.1 valid mandatory
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred, receiving a FACILITY message including a Facility information element with a UserUserService return result component,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return result component in the FACILITY message sent to the remote user), sends no message and remains in the same state.

UUS_N09_003 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N03, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

UUS_N09_004 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N04, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

UUS_N09_005 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N12, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

UUS_N09_006 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N19, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

UUS_N09_007 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 and service 3 is not subscribed to,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

UUS_N09_008 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 and resources are not available,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

UUS_N09_009 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred, receiving a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByUser",
sends no message and remains in the same state.

6.2.1.3.2 Invocation

UUS_N10_001 subclause 9.3.2.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element and no More data information element,
accepts the message (resulting in the sending of a USER INFORMATION message to the remote user with a User-user information element and no More data information element), sends no message and remains in the same state.

UUS_N10_002 subclause 9.3.2.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element and a More data information element,
accepts the message (resulting in the sending of a USER INFORMATION message to the remote user with a User-user information element and a More data information element), sends no message and remains in the same state.

UUS_N10_003 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, with service 3 not activated, receiving a USER INFORMATION message including a User-user information element,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N10_004 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element with an overall length exceeding 131 octets,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N10_005 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N03, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N10_006 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N04, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N10_007 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N12, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N10_008 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N19, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

6.2.1.3.3 Flow control

UUS_N11_001 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), receiving N (16) USER INFORMATION messages,
sends no message and remains in the same state.

UUS_N11_002 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), having already received N (16) USER INFORMATION messages, receiving a USER INFORMATION message,
sends a CONGESTION CONTROL message including a Congestion level information element indicating "receiver not ready" and a Cause information element with the cause value #43 "access information discarded" and remains in the same state.

UUS_N11_003 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), having sent a CONGESTION CONTROL message including a Congestion level information element indicating "receiver not ready", receiving a USER INFORMATION message,
sends no message and remains in the same state.

UUS_N11_004 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), having sent a CONGESTION CONTROL message including a Congestion level information element indicating "receiver not ready", to indicate that the flow control restrictions has been removed,
sends a CONGESTION CONTROL message including a Congestion level information element indicating "receiver ready" and remains in the same state.

NOTE: The expiration of T2-UUS3 (10 s) shall remove the flow control restrictions.

UUS_N11_005 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a CONGESTION CONTROL message,
sends a STATUS message including a Cause information element with the cause value #111 "protocol error, unspecified" and remains in the same state.

UUS_N11_006 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N04, receiving a CONGESTION CONTROL message,
sends a STATUS message including a Cause information element with the cause value #101 "message not compatible with call state" and remains in the same state.

6.2.2 Remote user

6.2.2.1 Service 1

Selection: Does the IUT support service 1? PICS: MC 2.1

6.2.2.1.1 Activation

6.2.2.1.1.1 Implicitly requested

UUS_N12_001 subclause 9.1.1.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a User-user information element without user information, having received an ALERTING message,
sends no message and enters the call state N07.

6.2.2.1.1.2 Explicitly requested

UUS_N13_001 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving an ALERTING message including a Facility information element with a UserUserService return result component,
accepts the message (resulting in the inclusion of the same Facility information element in the ALERTING message sent to the served user) and enters the call state N07.

UUS_N13_002 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, and receiving an ALERTING message including a Facility information element with a UserUserService return result component for CES1 and a UserUserService return error component for CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of the same Facility information element in the ALERTING message sent to the served user) and enters the call state N07 for CES1;
discards the message (resulting in the sending of no message to the served user), sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_003 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving an ALERTING message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the ALERTING message sent to the served user) and enters the call state N07.

UUS_N13_004 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, and receiving an ALERTING message including a Facility information element with a UserUserService return result component for CES1 and a UserUserService return error component for CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of the same Facility information element in the ALERTING message sent to the served user) and enters the call state N07 for CES1;
discards the message (resulting in the sending of no message to the served user), sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_005 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N13_006 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return result component for CES1,

accepts the message (resulting in the sending of a CONNECT message to the served user with the same User-user information element), sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_007 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N13_008 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message including a Facility information element with a UserUserService return result component for CES1,

accepts the message (resulting in the sending of a CONNECT message to the served user with the same User-user information element), sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1; sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_009 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a RELEASE COMPLETE message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the DISCONNECT message sent to the served user), and enters the call state N00.

UUS_N13_010 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a RELEASE COMPLETE message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the DISCONNECT message sent to the served user), and enters the call state N00.

UUS_N13_011 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES1; accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_012 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES1; accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_013 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a RELEASE COMPLETE message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a RELEASE COMPLETE message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES1; accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_014 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a RELEASE COMPLETE message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a RELEASE COMPLETE message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES1; accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_015 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES1;
discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_016 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES1;
discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_017 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a DISCONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

UUS_N13_018 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a DISCONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

UUS_N13_019 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_020 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_021 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_022 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_023 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_024 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N25 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_025 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a DISCONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

UUS_N13_026 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a DISCONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of the same Facility information element in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

UUS_N13_027 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_028 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_029 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_030 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_031 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;
discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_032 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N09 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;
discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_033 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a CONNECT message without service 1 accept or reject,

accepts the message (resulting in the sending of a CONNECT message to the served user with the error value "rejectedByUser"), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N13_034 subclause 9.1.1.2.2, clause 10 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a CONNECT message without service 1 accept or reject,

accepts the message (resulting in the sending of a CONNECT message to the served user with the error value "rejectedByUser" or "rejectedByNetwork"), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 1: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_035 subclause 9.1.1.2.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message without service 1 accept or reject,

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the cause value #69 "requested facility not implemented" and the error value "rejectedByUser"), sends a DISCONNECT message with cause value #31 "normal unspecified and enters the call state N12.

UUS_N13_036 subclause 9.1.1.2.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message without service 1 accept nor reject for CES1,

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the cause value #69 "requested facility not implemented" and the error value "rejectedByUser"), sends a DISCONNECT message with cause value #31 "normal unspecified and enters the call state N12 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_037 subclause 9.1.1.2.2, clause 10 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message without service 1 accept or reject,

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the cause value #69 "requested facility not implemented" and the error value "rejectedByUser" or "rejectedByNetwork"), sends a DISCONNECT message with cause value #31 "normal unspecified" and enters the call state N12.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 2: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_038 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a DISCONNECT message without UserUserService return result or return error component,

accepts the message (resulting in the sending of a DISCONNECT message to the served user without service 1 related component), sends a RELEASE message without service 1 related component and enters the call state N19.

UUS_N13_039 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a DISCONNECT message without UserUserService return result or return error component,

accepts the message (resulting in the sending of a DISCONNECT message to the served user without service 1 related component), sends a RELEASE message without service 1 related component and enters the call state N19.

UUS_N13_040 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving an ALERTING message including a Facility information element with a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a UserUserService return error component with the value "rejectedByUser" in the ALERTING message sent to the served user), sends no message and enters the call state N07.

UUS_N13_041 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, and receiving an ALERTING message including a Facility information element with a UserUserService return error component with the value "rejectedByUser" for CES1 and a UserUserService return result component for CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a UserUserService return error component with the value "rejectedByUser" in the ALERTING message sent to the served user), sends no message and enters the call state N07 for CES1,
discards the message, sends no message and enters the call state N07 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_042 subclause 9.1.1.2.2, clause 10 invalid optional

Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving an ALERTING message including a Facility information element with a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the ALERTING message sent to the served user), sends no message and enters the call state N07.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 3: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_043 subclause 9.1.1.2.2 invalid mandatory

Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a UserUserService return error component with the value "rejectedByUser" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N13_044 subclause 9.1.1.2.2, clause 10 invalid optional

Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 4: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_045 subclause 9.1.1.2.2 invalid mandatory

Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a DISCONNECT message with a Facility information element including a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #29 "facility rejected",

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" and the cause value #29 "facility rejected"), sends a RELEASE message and enters the call state N19.

UUS_N13_046 subclause 9.1.1.2.2, clause 10 invalid optional

Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a DISCONNECT message with a Facility information element including a UserUserService return error component with the value "rejectedByNetwork" and a Cause information element with the cause value #29 "facility rejected",

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" or "rejectedByNetwork" and the cause value #29 "facility rejected"), sends a RELEASE message and enters the call state N19.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 5: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_047 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a RELEASE COMPLETE message with a Facility information element including a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #29 "facility rejected",

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" and the cause value #29 "facility rejected"), sends no message and enters the call state N00.

UUS_N13_048 subclause 9.1.1.2.2, clause 10 invalid optional
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a RELEASE COMPLETE message with a Facility information element including a UserUserService return error component with the value "rejectedByNetwork" and a Cause information element with the cause value #29 "facility rejected",

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" or "rejectedByNetwork" and the cause value #29 "facility rejected"), sends no message and enters the call state N00.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 6: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_049 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving an ALERTING message including a Facility information element with a UserUserService return error component with the error value "rejectedByUser",

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" and the cause value #69 "requested facility not implemented"), sends a DISCONNECT message with the cause value #31 "normal, unspecified" and enters the call state N12.

UUS_N13_050 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, and receiving an ALERTING message including a Facility information element with a UserUserService return error component with the value "rejectedByUser" for CES1 and a UserUserService return result component for CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" and the cause value #69 "requested facility not implemented"), sends a DISCONNECT message with the error value "rejectedByUser" and the cause value #31 "normal, unspecified" and enters the call state N12 for CES1;

discards the message and sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N13_051 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving an ALERTING message including a Facility information element with a UserUserService return error component with the error value "rejectedByNetwork",

accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" or "rejectedByNetwork" and the cause value #69 "requested facility not implemented"), sends a DISCONNECT message with the error value "rejectedByUser" and the cause value #31 "normal, unspecified" and enters the call state N12.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 7: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N13_052 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the error value "rejectedByUser",
accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" and the cause value #69 "requested facility not implemented"), sends a DISCONNECT message with the error value "rejectedByUser" and the cause value #29 "facility rejected" and enters the call state N12.

UUS_N13_053 subclause 9.1.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1 required, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the error value "rejectedByNetwork",
accepts the message (resulting in the sending of a DISCONNECT message to the served user with the error value "rejectedByUser" or "rejectedByNetwork" and the cause value #69 "requested facility not implemented"), sends a DISCONNECT message with the error value "rejectedByUser" and the cause value #29 "facility rejected" and enters the call state N12.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 8: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

6.2.2.1.2 Invocation

6.2.2.1.2.1 During call establishment

UUS_N14_001 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message including a User-user information element, and receiving an ALERTING message with a User-user information element including user information,
accepts the message (resulting in the sending of an ALERTING message to the served user with the same User-user information element) sends no message and enters the call state N07.

UUS_N14_002 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message including a User-user information element, and receiving an ALERTING message with a User-user information element including user information for CES1 and CES2, with CES1 sending prior to CES2,
accepts the message (resulting in the sending of an ALERTING message to the served user with the same User-user information element), sends no message and enters the call state N07 for CES1;
discards the message, sends no message and enters the call state N07 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13]

UUS_N14_003 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N07, having sent a valid SETUP message including a User-user information element and received an ALERTING message with a User-user information element including user information, and receiving a CONNECT message with a User-user information element including user information,
accepts the message (resulting in the sending of a CONNECT message to the served user with the same User-user information element) sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N14_004 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message including a User-user information element and received an ALERTING message with a User-user information element including user information for CES1 and CES2, and receiving a CONNECT message with a User-user information element including user information for CES1,
accepts the message (resulting in the sending of a CONNECT message to the served user with the same User-user information element) sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1, and sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13]

UUS_N14_005 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message including a User-user information element, and receiving a CONNECT message with a User-user information element including user information,
accepts the message (resulting in the sending of a CONNECT message to the served user with the same User-user information element) sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

NOTE: This test purpose correspond to the activation and the invocation of UUS service 1 at the same time.

UUS_N14_006 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message including a User-user information element, receiving a CONNECT message with a User-user information element including user information for CES1,
accepts the message (resulting in the sending of a CONNECT message to the served user with the same User-user information element) sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13]

UUS_N14_007 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1, and receiving an ALERTING message with a Facility information element including a UserUserService return result component and a User-user information element with user information,
accepts the message (resulting in the sending of an ALERTING message to the served user with a Facility information element including a UserUserService return result component and with the same User-user information element) sends no message and enters the call state N07.

Selection: Does the IUT support the procedures associated with the explicit request of service 1? PICS: MC 2.1.2.

UUS_N14_008 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1, and receiving an ALERTING message with a Facility information element including a UserUserService return result component and a User-user information element with user information for CES1 and CES2, with CES1 sending prior to CES2,
accepts the message (resulting in the sending of an ALERTING message to the served user with a Facility information element including a UserUserService return result component and with the same User-user information element), sends no message and enters the call state N07 for CES1;
discards the message, sends no message and enters the call state N07 for CES2.

Selection: Does the IUT support the procedures associated with the explicit request of service 1? PICS: MC 2.1.2
AND
Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13]

UUS_N14_009 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1, and receiving a CONNECT message with a Facility information element including a UserUserService return result component and a User-user information element with user information,
accepts the message (resulting in the sending of a CONNECT message to the served user with a Facility information element including a UserUserService return result component and with the same User-user information element) sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

Selection: Does the IUT support the procedures associated with the explicit request of service 1? PICS: MC 2.1.2.

UUS_N14_010 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N07 and in the active state for service 1 requested explicitly, for CES1 and CES2, receiving a CONNECT message with a Facility information element including a UserUserService return result component and a User-user information element with user information for CES1,

accepts the message (resulting in the sending of an CONNECT message to the served user with a Facility information element including a UserUserService return result component and with the same User-user information element), sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
discards the message, sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Does the IUT support the procedures associated with the explicit request of service 1? PICS: MC 2.1.2
AND
Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N14_011 subclause 9.1.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message including a User-user information element with user information, and receiving an ALERTING message including a User-user information element with an overall length exceeding 131 octets,

discards the User-user information element (resulting in the sending of an ALERTING message to the served user without User-user information element), sends no message or optionally sends a STATUS message with cause value #43 "access information discarded" and enters the call state N07.

UUS_N14_012 subclause 9.1.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message including a User-user information element with user information, and receiving a CONNECT message including a User-user information element with an overall length exceeding 131 octets,

discards the User-user information element (resulting in the sending of a CONNECT message to the served user without User-user information element), continue normal call handling, and optionally sends a STATUS message with cause value #43 "access information discarded" and enters the call state N10.

UUS_N14_013 subclause 9.1.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1, and receiving an ALERTING message including a User-user information element (service 1 is not yet activated),

discards the User-user information element (resulting in the sending of an ALERTING message to the served user without User-user information element), sends no message or optionally sends a STATUS message with cause value #43 "access information discarded" and enters the call state N10.

UUS_N14_014 subclause 9.1.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 1, and receiving a CONNECT message including a User-user information element (service 1 is not yet activated),

discards the User-user information element (resulting in the sending of a CONNECT message to the served user without User-user information element), continue normal call handling and optionally sends a STATUS message with cause value #43 "access information discarded" and enters the call state N10.

6.2.2.1.2.2 During call clearing

6.2.2.1.2.2.1 Clearing initiated by the calling user

UUS_N15_001 subclause 9.1.2.1.1 valid mandatory
Ensure that the IUT, in the call state N07 and in the service 1 active state, for CES1 and CES2, to indicate that the served user has sent a DISCONNECT message including a User-user information element (premature call clearing),

send a RELEASE message including a User-user information element and enters the call state N19 for CES1 and CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

6.2.2.1.2.2.2 Clearing initiated by the called user

UUS_N16_001 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N10 (incoming call) and in the service 1 active state, receiving a DISCONNECT message including a User-user information element,
accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to served user), sends a RELEASE message and enters the call state N19.

UUS_N16_002 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N06 and in the service 1 active state, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element,
accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to served user), sends no message and enters the call state N00.

Selection: Point-to-point configuration supported. PICS: R 7.1 [12] and [13].

UUS_N16_003 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N06 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,
discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES1;
accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_004 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N06 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a RELEASE COMPLETE message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a RELEASE COMPLETE message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,
discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES1;
accepts the message for CES2 (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_005 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N06 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a RELEASE COMPLETE message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,
accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00 for CES1;
discards the User-user and Cause information elements, sends no message and enters the call state N00 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_006 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N25 and in the service 1 active state, receiving a DISCONNECT message (premature call clearing) including a User-user information element,
accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to served user), sends a RELEASE message and enters the call state N19.

Selection: Point-to-point configuration supported. PICS: R 7.1 [12] and [13].

UUS_N16_007 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N25 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_008 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N25 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_009 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N25 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_010 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N09 and in the service 1 active state, receiving a DISCONNECT message (premature call clearing) including a User-user information element,

accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to served user), sends a RELEASE message and enters the call state N19.

Selection: Point-to-point configuration supported. PICS: R 7.1 [12] and [13].

UUS_N16_011 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N09 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_012 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N09 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_013 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N09 and in the service 1 active state (implicitly requested), for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_014 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N07 and in the service 1 active state, receiving a DISCONNECT message (premature call clearing) including a User-user information element,

accepts the message (resulting in the inclusion of a User-user information element in the DISCONNECT message sent to served user), sends a RELEASE message and enters the call state N19.

Selection: Point-to-point configuration supported. PICS: R 7.1 [12] and [13].

UUS_N16_015 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N07 and in the service 1 active state, for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and with the cause value #17 "user busy" for CES2, with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_016 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N07 and in the service 1 active state, for CES1 and CES2, receiving a DISCONNECT message for CES1 (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" and a DISCONNECT message for CES2 (premature call clearing) without User-user information element and including a Cause information element with the cause value #17 "user busy", with CES1 sending prior to CES2,

discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES1;

accepts the message (resulting in the inclusion of no User-user information element and a Cause information element with the cause value #17 "user busy" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_017 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N07 and in the service 1 active state, for CES1 and CES2, receiving a DISCONNECT message (premature call clearing) including a User-user information element and a Cause information element with the cause value #21 "call rejected" for CES1 and CES2, with CES1 sending prior to CES2,
accepts the message (resulting in the inclusion of a User-user information element and a Cause information element with the cause value #21 "call rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19 for CES1;
discards the User-user and Cause information elements, sends a RELEASE message and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N16_018 subclause 9.1.2.2.1.b valid mandatory
Ensure that the IUT, in the call state N10 (incoming call) and in the service 1 active state, receiving a RELEASE message (call clearing failure) including a User-user information element,
accepts the message (resulting in the inclusion of a User-user information element in the RELEASE message sent to served user), sends a RELEASE COMPLETE message and enters the call state N00.

UUS_N16_019 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, (incoming call) with service 1 not activated, receiving a DISCONNECT message including a User-user information element,
sends a RELEASE message optionally including a Cause information element with cause value #43 "access information discarded" and enters the call state N19.

UUS_N16_020 subclause 9.1.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N10 (incoming call) and in the service 1 active state, receiving a DISCONNECT message including a User-user information element with an overall length exceeding 131 octets,
sends a RELEASE message optionally including a Cause information element with cause value #43 "access information discarded" and enters the call state N19.

6.2.2.2 Service 2

Selection: Does the IUT support service 2? PICS: MC 2.2.

6.2.2.2.1 Activation

UUS_N17_001 subclause 9.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, receiving an ALERTING message including a Facility information element with a UserUserService return result component,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return result component in the ALERTING message sent to the served user), sends no message and enters the call state N07.

UUS_N17_002 subclause 9.2.1.1 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving an ALERTING message including a Facility information element with a UserUserService return result component,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return result component in the ALERTING message sent to the served user), sends no message and enters the call state N07.

UUS_N17_003 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, receiving a CONNECT message (does not receive an ALERTING message),
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE enters the call state N10.

NOTE 1: Implicit rejection of Service 2.

Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N17_004 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a CONNECT message (does not receive an ALERTING message),

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message and enters the call state N12.

NOTE 2: Implicit rejection of Service 2.

UUS_N17_005 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a CONNECT message (does not receive an ALERTING message),

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message and enters the call state N12.

NOTE 3: Implicit rejection of Service 2.
Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N17_006 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, receiving an ALERTING message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByNetwork" in the ALERTING message sent to the served user), sends no message and enters the call state N07.

NOTE 4: Implicit rejection of Service 2.

UUS_N17_007 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving an ALERTING message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message and enters the call state N12.

NOTE 5: Implicit rejection of Service 2.

UUS_N17_008 subclause 9.2.1.2 inopportune mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving an ALERTING message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message and enters the call state N12.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 6: Implicit rejection of Service 2.
Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N17_009 subclause 9.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, receiving a DISCONNECT message without UserUserService return error component,

accepts the message (resulting in the sending of a DISCONNECT message to the served user without service return result or return error component),sends a RELEASE message and enters the call state N19.

UUS_N17_010 subclause 9.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a DISCONNECT message without UserUserService return error component,

accepts the message (resulting in the sending of a DISCONNECT message to the served user without service return result or return error component),sends a RELEASE message and enters the call state N19.

UUS_N17_011 subclause 9.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, receiving an ALERTING message including a Facility information element with a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" in the ALERTING message sent to the served user), sends no message and enters the call state N07.

UUS_N17_012 subclause 9.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 preferred, receiving an ALERTING message including a Facility information element with a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the ALERTING message sent to the served user), sends no message and enters the call state N07.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 7: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N17_013 subclause 9.2.1.2 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving an ALERTING message including a Facility information element with a UserUserService return error component, indicating "rejectedByUser",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message with cause value #31 "normal unspecified" and enters the call state N12.

UUS_N17_014 subclause 9.2.1.2, clause 10 valid mandatory
Ensure that the IUT, in the call state N06 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving an ALERTING message including a Facility information element with a UserUserService return error component, indicating "rejectedByNetwork",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message with cause value #31 "normal unspecified" and enters the call state N12.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 8: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N17_015 subclause 9.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a DISCONNECT message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #29 "facility rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

UUS_N17_016 subclause 9.2.1.2, clause 10 invalid optional
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a DISCONNECT message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #29 "facility rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 9: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N17_017 subclause 9.2.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a RELEASE COMPLETE message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #29 "facility rejected" in the RELEASE COMPLETE message sent to the served user), sends no message and enters the call state N00.

UUS_N17_018 subclause 9.2.1.2, clause 10 invalid optional
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 2 required, receiving a RELEASE COMPLETE message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #29 "facility rejected" in the RELEASE COMPLETE message sent to the served user),sends no message and enters the call state N00.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 10: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

6.2.2.2.2 Invocation

UUS_N18_001 subclause 9.2.2.2 valid mandatory
Ensure that the IUT, in the call state N07 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element and no More data information element,

accepts the message (resulting in the sending of a USER INFORMATION message to the served user with a User-user information element and no More data information element), sends no message and remains in the same state.

UUS_N18_002 subclause 9.2.2.2 valid mandatory
Ensure that the IUT, in the call state N07 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element and a More data information element,
accepts the message (resulting in the sending of a USER INFORMATION message to the served user with a User-user information element and a More data information element), sends no message and remains in the same state.

UUS_N18_003 subclause 9.2.2.2 valid mandatory
Ensure that the IUT, in the call state N07 and in the service 2 active state, receiving two USER INFORMATION messages both including a User-user information element,
accepts the messages (resulting in the sending of two USER INFORMATION messages to the served user with a User-user information element), sends no message and remains in the same state.

UUS_N18_004 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N07, with service 2 not activated, receiving a USER INFORMATION message including a User-user information element,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N18_005 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N07 and in the service 2 active state, receiving three USER INFORMATION messages including a User-user information element,
discards the third message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N18_006 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N07 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element with an overall length exceeding 131 octets,
discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N18_007 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N06 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N18_008 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N25 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N18_009 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N09 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N18_010 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N08 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N18_011 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N10 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N18_012 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N12 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N18_013 subclause 9.2.2.2 invalid mandatory
Ensure that the IUT, in the call state N19 and in the service 2 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

6.2.2.3 Service 3

Selection: Does the IUT support service 3? PICS: MC 2.3.

6.2.2.3.1 Activation

6.2.2.3.1.1 During call establishment

UUS_N19_001 subclause 9.3.1.1.1 valid mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return result component in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N19_002 subclause 9.3.1.1.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return result component for CES1,

accepts the message (resulting in the sending of a CONNECT message to the served user including a UserUserService return result component), sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N19_003 subclause 9.3.1.1.1 valid mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message including a Facility information element with a UserUserService return result component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return result component in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N19_004 subclause 9.3.1.1.1 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message including a Facility information element with a UserUserService return result component for CES1,

accepts the message (resulting in the sending of a CONNECT message to the served user including a UserUserService return result component) sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N19_005 subclause 9.3.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a DISCONNECT message without UserUserService return error component,

accepts the message (resulting in the sending of a DISCONNECT message to the served user without UserUserService return error component), sends a RELEASE message and enters the call state N19.

UUS_N19_006 subclause 9.3.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a DISCONNECT message without UserUserService return error component,

accepts the message (resulting in the sending of a DISCONNECT message to the served user without UserUserService return error component), sends a RELEASE message and enters the call state N19.

UUS_N19_007 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N19_008 subclause 9.3.1.1.2 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message without UserUserService return result or return error component for CES1,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" in the CONNECT message sent to the served user) sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N19_009 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 1: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N19_010 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message with cause value #31 "normal unspecified and enters the call state N11.

UUS_N19_011 subclause 9.3.1.1.2 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message without UserUserService return result or return error component for CES1,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user) sends a DISCONNECT message with cause value #31 "normal unspecified and enters the call state N11 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N19_012 subclause 9.3.1.1.2 inopportune mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message without UserUserService return result or return error component,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user), sends a DISCONNECT message with cause value #31 "normal unspecified and enters the call state N11.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 2: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N19_013 subclause 9.3.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N07, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

UUS_N19_014 subclause 9.3.1.1.2 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the value "rejectedByUser" for CES1,

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" in the CONNECT message sent to the served user) sends a CONNECT ACKNOWLEDGE message and enters the call state N10 for CES1;
sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N19_015 subclause 9.3.1.1.2, clause 10 invalid optional
Ensure that the IUT, in the call state N07, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 preferred, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the CONNECT message sent to the served user), sends a CONNECT ACKNOWLEDGE message and enters the call state N10.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 3: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N19_016 subclause 9.3.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a DISCONNECT message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByUser",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #29 "facility rejected" in the DISCONNECT message sent to the served user), sends a RELEASE message and enters the call state N19.

UUS_N19_017 subclause 9.3.1.1.2, clause 10 invalid mandatory
Ensure that the IUT, in the call state N07 having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a DISCONNECT message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByNetwork",

accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #29 "facility rejected" in the DISCONNECT message sent to the served user),sends a RELEASE message and enters the call state N19.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 4: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N19_018 subclause 9.3.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a RELEASE COMPLETE message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByUser",
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #29 "facility rejected" in the DISCONNECT message sent to the served user), sends no message and enters the call state N00.

UUS_N19_019 subclause 9.3.1.1.2 valid mandatory
Ensure that the IUT, in the call state N06 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a RELEASE COMPLETE message with cause value #29 "facility rejected" and including a Facility information element with a UserUserService return error component with the value "rejectedByUser" for CES1 and CES2, with CES1 sending prior to CES2,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user) sends a DISCONNECT message with cause value #31 "normal, unspecified" and enters the call state N12 for CES1; sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13].

UUS_N19_020 subclause 9.3.1.1.2, clause 10 invalid optional
Ensure that the IUT, in the call state N06, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a RELEASE COMPLETE message with cause value #29 "facility rejected" and with a Facility information element including a UserUserService return error component with the value "rejectedByNetwork",
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" and a Cause information element with the cause value #29 "facility rejected" in the DISCONNECT message sent to the served user),sends no message and enters the call state N00.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 5: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N19_021 subclause 9.3.1.1.2 invalid mandatory
Ensure that the IUT, in the call state N07, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message including a Facility information element with a UserUserService return error component,
sends a DISCONNECT message with cause value #31 "normal, unspecified" and enters the call state N12.

UUS_N19_022 subclause 9.3.1.1.2 valid mandatory
Ensure that the IUT, in the call state N07 for CES1 and CES2, having sent a valid SETUP message with a Facility information element including a UserUserService invoke component indicating service 3 required, receiving a CONNECT message including a Facility information element with a UserUserService return error component with the value "rejectedByUser",
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return error component with the value "rejectedByUser" and a Cause information element with the cause value #69 "requested facility not implemented" in the DISCONNECT message sent to the served user) sends a DISCONNECT message with cause value #31 "normal, unspecified" and enters the call state N12 for CES1; sends a RELEASE message including a Cause information element with the cause value #26 "Non-selected user clearing" and enters the call state N19 for CES2.

Selection: Point-to-multipoint configuration supported. PICS: R 7.2 [12] and [13]

6.2.2.3.1.2 During active call state

UUS_N20_001 subclause 9.3.1.2.1 valid mandatory
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred, receiving a FACILITY message including a Facility information element with a UserUserService return result component,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService return result component in the FACILITY message sent to the served user), sends no message and remains in the same state.

UUS_N20_002 subclause 9.3.1.2.1 valid optional
Ensure that the IUT, in the call state N10, receiving a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
accepts the message (resulting in the inclusion of a Facility information element with a UserUserService invoke component in the FACILITY message sent to the served user), sends no message and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_003 subclause 9.3.1.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred, receiving a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByUser",
accepts the message (resulting in the inclusion of a Facility information element including a UserUserService return error component with the value "rejectedByUser" in the FACILITY message sent to the served user), sends no message and remains in the same state.

UUS_N20_004 subclause 9.3.1.2.2, clause 10 invalid optional
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred, receiving a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork",
accepts the message (resulting in the inclusion of a Facility information element including a UserUserService return error component with the value "rejectedByUser" or "rejectedByNetwork" in the FACILITY message sent to the served user), sends no message and remains in the same state.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 1: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N20_005 subclause 9.3.1.2.1 valid mandatory
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 preferred, on expiry of timer T1-UUS3,
rejects the service 3 toward the requesting network (resulting in the sending of a FACILITY message to the served user including a Facility information element with a UserUserService invoke component with the error value "rejectedByUser") and remains in the same state.

UUS_N20_006 subclause 9.3.1.2.1, clause 10 valid optional
Ensure that the IUT, in the call state N10, having sent a FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 preferred, on expiry of timer T1-UUS3,
rejects the service 3 toward the requesting network (resulting in the sending of a FACILITY message to the served user including a Facility information element with a UserUserService invoke component with the error value "rejectedByUser" or "rejectedByNetwork") and remains in the same state.

Selection: T reference point procedures supported. PICS: R 3.2.

NOTE 2: Both error values "rejectedByUser" or "rejectedByNetwork" can be received depending if an ISUP network has been encountered or not.

UUS_N20_007 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N06, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3 preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_008 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N25, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_009 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N09, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_010 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N07, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_011 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N08, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_012 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N12, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

UUS_N20_013 subclause 9.3.1.2.2 invalid optional
Ensure that the IUT, in the call state N19, having received a valid FACILITY message including a Facility information element with a UserUserService invoke component indicating service 3, preferred,
sends a FACILITY message including a Facility information element with a UserUserService return error component indicating "rejectedByNetwork" and remains in the same state.

Selection: Does the IUT support the request of service 3 by the called user? PICS: SC 7.1.

6.2.2.3.2 Invocation

UUS_N21_001 subclause 9.3.2.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element and no More data information element,

accepts the message (resulting in the sending of a USER INFORMATION message to the served user with a User-user information element and no More data information element), sends no message and remains in the same state.

UUS_N21_002 subclause 9.3.2.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element and a More data information element,

accepts the message (resulting in the sending of a USER INFORMATION message to the served user with a User-user information element and a More data information element), sends no message and remains in the same state.

UUS_N21_003 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N10, with service 3 not activated, receiving a USER INFORMATION message including a User-user information element,

discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N21_004 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element with an overall length exceeding 131 octets,

discards the message, optionally sends a STATUS message with cause value #43 "access information discarded" and remains in the same state.

UUS_N21_005 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N06 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N21_006 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N25 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N21_007 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N09 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N21_008 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N07 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N21_009 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N08 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N21_010 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N12 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N21_011 subclause 9.3.2.2 invalid mandatory
Ensure that the IUT, in the call state N19 and in the service 3 active state, receiving a USER INFORMATION message including a User-user information element,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

6.2.2.3.3 Flow control

Selection: Coincident S and T reference point procedures supported. PICS: R 3.1.

UUS_N22_001 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), receiving N (16) USER INFORMATION messages,
sends no message and remains in the same state.

UUS_N22_002 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), having already received N (16) USER INFORMATION messages, receiving a USER INFORMATION message,
discards the last received USER INFORMATION message, sends a CONGESTION CONTROL message including a Congestion level information element indicating "receiver not ready" and a Cause information element with the cause value #43 "access information discarded" and remains in the same state.

UUS_N22_003 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, within the period T2-UUS3 (10 s), having sent a CONGESTION CONTROL message including a Congestion level information element indicating "receiver not ready", receiving a USER INFORMATION message,
sends no message and remains in the same state.

UUS_N22_004 subclause 9.3.3.1 valid mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, on expiry of T2-UUS3 (10 s), having sent a CONGESTION CONTROL message including a Congestion level information element indicating "receiver not ready",
sends a CONGESTION CONTROL message including a Congestion level information element indicating "receiver ready" and remains in the same state.

UUS_N22_005 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N10 and in the service 3 active state, receiving a CONGESTION CONTROL message,
sends a STATUS message including a Cause information element with the cause value #111 "protocol error, unspecified" and remains in the same state.

UUS_N22_006 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N06 and in the service 3 active state, receiving a CONGESTION CONTROL message,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N22_007 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N25 and in the service 3 active state, receiving a CONGESTION CONTROL message,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N22_008 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N09 and in the service 3 active state, receiving a CONGESTION CONTROL message,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N22_009 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N07 and in the service 3 active state, receiving a CONGESTION CONTROL message,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N22_010 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N08 and in the service 3 active state, receiving a CONGESTION CONTROL message,
discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N22_011 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N12 and in the service 3 active state, receiving a CONGESTION CONTROL message,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

UUS_N22_012 subclause 9.3.3.2 inopportune mandatory
Ensure that the IUT, in the call state N19 and in the service 3 active state, receiving a CONGESTION CONTROL message,

discards the message, sends a STATUS message with cause value #98 "message not compatible with call state or message type non-existent or not implemented" or with cause value #101 "message not compatible with call state" and remains in the same state;
or
discards the message, sends a STATUS ENQUIRY message and remains in the same state.

7 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 6;

b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;

c) use the same naming conventions for the test groups and test cases;

d) maintain the relationship specified in clause 6 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 6 shall be included in a compliant ATS.

8 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 300 286-1 [1].

Annex A (informative): Changes with respect to the previous ETS 300 286-5

The following changes have been done:

- conversion to EN layout;
- replacement of references to ETS 300 102 with EN 300 403;
- replacement of references to I-ETSs with EN 300 403;
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

History

Document history		
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