



EUROPEAN
TELECOMMUNICATION
STANDARD

DRAFT
pr **ETS 300 185-3**

October 1995

Source: ETSI TC-SPS

Reference: DE/SPS-05061-J1-3

ICS: 33.080

Key words: ISDN, DSS1, supplementary service, TSS&TP

**Integrated Services Digital Network (ISDN);
Conference call, add-on (CONF) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 3: Test Suite Structure and Test Purposes (TSS&TP)
specification for the user**

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS is part 3 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Conference call, add-on (CONF) 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: "TSS&TP specification for the network";
- Part 6: "ATS and partial PIXIT proforma specification for the network".

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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1 Scope

This third part of ETS 300 185 specifies the Test Suite Structure and Test Purposes (TSS&TP) for the User 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 Conference call, add-on (CONF) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of Digital Subscriber Signalling System No. one (DSS1) protocol.

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial PIXIT proforma based on this ETS. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the Network side of the T reference point or coincident S and T reference point of implementations conforming to ETS 300 185-1 [1].

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 185-1 (1993): "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

NOTE: ETS 300 185-1 (1993) was initially published as ETS 300 185 (1993).

- [2] ETS 300 185-2 (1995): "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) 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] ETS 300 196-1 (1993): "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".

NOTE: ETS 300 196-1 (1993) was initially published as ETS 300 196 (1993).

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

- [8] ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

- [9] ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".

- [10] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".

- [11] ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by an ISDN and the means to describe them".

3 Definitions

For the purposes of this ETS, the following definitions apply:

3.1 Definitions related to conformance testing

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

abstract test suite: 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: 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 (sends message) and normally does not require an any special operator intervention such as is 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: Refer to ISO/IEC 9646-1 [3].

3.2 Definitions related to ETS 300 185-1

Call Held auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

call reference: See ETS 300 102-1 [8], subclause 4.3.

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

Idle auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

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

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

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

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

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

served user: The served user is the user who invokes the CONF supplementary service.

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

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

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

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

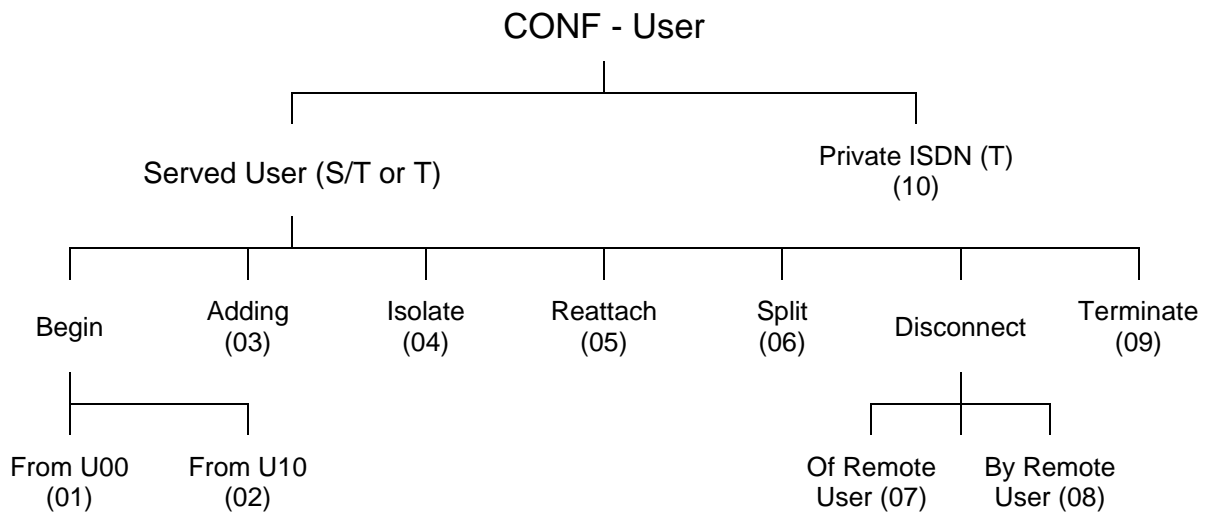
user (T) definition: The DSS1 protocol entity at the user side of the user-network interface where a T reference point applies (commonly referred to as a Private ISDN).

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

CCRef	Call Reference for call related to the conference.
CONF	Conference call, add-on
IUT	Implementation Under Test
SCRef	Call Reference for a private call not related to the conference
TP	Test Purpose
TSS	Test Suite Structure
U00	Idle Call state
U10	Active Call state
U12	Disconnect Indication Call state
U19	Release Request Call state

5 Test Suite Structure (TSS)



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

Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a Test Purpose (TP) is defined.

6.1.1 Test purpose (TP) naming convention

Test Purposes 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 side (see table 1).

Table 1: TP Identifier naming convention scheme

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

6.1.2 Source of test purpose definition

The test purposes were developed based on ETS 300 185-1 [1], clauses 9, 10 and 14.

6.1.3 Test purpose 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 Test Purpose for CONF

TP Part	Text	Example
Header	<Identifier> <i>tab</i> <paragraph number in base ETS> <i>tab</i> <type of test> <i>tab</i> <condition> <i>CR.</i>	see table 1 subclause 0.0.0 valid, invalid, inopportune mandatory, optional, conditional
Stimulus	Ensure that the IUT in the <basic call state> <trigger> <i>see below for message structure</i> <i>or</i> <goal>	N10, N10, etc. receiving a XXXX message to request a
Reaction	<action> <conditions> <i>if the action is sending</i> <i>see below for message structure</i> <next action>, <i>etc.</i> and remains in the same state <i>or</i> 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 <i>or</i> including <coding of the field> and <i>back to a or b,</i>	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 contained no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and PICS. The criteria applied included the following:

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

6.2 User side Test Purposes for CONF

All PICS items referred to in this subclause are as specified in ETS 300 185-2 [2] unless indicated otherwise by another numbered reference.

6.2.1 Served User (S/T or T)

Selection: IUT supports served user requirements. PICS: R 4.1.

6.2.1.1 Begin

6.2.1.1.1 Begin from U00

CONF_U01_001 **subclause 9.2.1.1.** **valid optional**

Ensure that the IUT, in the call state U00, to request a conference

sends, using implicitly en bloc sending, a SETUP message containing a Facility information element with a BeginCONF invoke component, no Called party number, no Called party subaddress information elements and a compatible (for CONF purpose) Bearer capability information element and enters state U01.

Selection: the BeginCONF component does not contain the ConfSize parameter?

CONF_U01_002 **subclause 9.2.1.1.** **valid optional**

Ensure that the IUT, in the call state U00, to request a conference sends, using implicitly en bloc sending, a SETUP message containing a Facility information element with a BeginCONF invoke component, including a ConfSize parameter indicating the maximum number of remote users, no Called party number, no Called party subaddress information elements and a compatible (for CONF purpose) Bearer capability information element and enters state U01.

Selection: the BeginCONF component contains the ConfSize parameter?

CONF_U01_003 **subclause 9.2.1.1** **valid mandatory**

Ensure that the IUT, in the call state U03 receiving a CONNECT message with a correctly encoded BeginCONF return result component saves the Conferenceld parameter, does not respond to the network and enters state U10.

CONF_U01_004 **subclause 9.2.1.1** **invalid mandatory**

Ensure that the IUT, in the call state U03 receiving a CONNECT message with an incorrectly encoded BeginCONF return result component including an invalid invokeID

sends a FACILITY or a DISCONNECT message containing a Facility information element with a reject component encoded as return result problem.

CONF_U01_005 **subclause 9.2.1.2** **valid mandatory**

Ensure that the IUT, in the call state U01 receiving a RELEASE message with a correctly encoded BeginCONF return error component

sends a RELEASE COMPLETE message and enters state U00.

CONF_U01_006 **subclause 9.2.1.2** **valid mandatory**

Ensure that the IUT, in the call state U03 receiving a DISCONNECT message with a correctly encoded BeginCONF return error component

enters state U12.

CONF_U01_007 **subclause 9.2.1.2** **invalid mandatory**

Ensure that the IUT, in the call state U01 receiving a RELEASE message with an incorrectly encoded BeginCONF return error component including an invalid invokeID

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem followed by a RELEASE COMPLETE message and enters state U00

or

sends a RELEASE COMPLETE message containing a Facility information element with a reject component encoded as return error problem and enters state U00.

CONF_U01_008 **subclause 9.2.1.2** **invalid mandatory**

Ensure that the IUT, in the call state U03 receiving a DISCONNECT message with an incorrectly encoded BeginCONF return error component including an invalid invokeID

sends a Facility information element with a reject component encoded as return error problem in a FACILITY message and enters state U12 or in a RELEASE message and enters state U19.

6.2.1.1.2 **Begin from U10**

Selection: IUT supports beginning the conference from the Active call state U10. PICS: MC 1.2.

CONF_U02_001 **subclause 9.2.2.1** **valid optional**

Ensure that the IUT, in the call state U10, to request a conference

sends a FACILITY message indicating the call reference of the existing call and including a Facility information element which contains a BeginCONF invoke component and remains in the same state.

Selection: the BeginCONF component does not contain the ConfSize parameter?

CONF_U02_002 **subclause 9.2.2.1** **valid optional**

Ensure that the IUT, in the call state U10 (Call Held), to request a conference sends a FACILITY message indicating the call reference of the existing call and including a Facility information element which contains a BeginCONF invoke component and remains in the same state.

Selection: the BeginCONF component does not contain the ConfSize parameter?

Selection: CONF invocation from the Call Held auxiliary state is supported. PICS: MC 3.1.

CONF_U02_003 **subclause 9.2.2.1** **valid optional**

Ensure that the IUT, in the call state U10, to request a conference sends a FACILITY message indicating the call reference of the existing call and including a Facility information element which contains a BeginCONF invoke component with a ConfSize parameter indicating the maximum number of remote users and remains in the same state.

Selection: the BeginCONF component does contain the ConfSize parameter?

CONF_U02_004 **subclause 9.2.2.1** **valid optional**

Ensure that the IUT, in the call state U10 (Call Held), to request a conference sends a FACILITY message indicating the call reference of the existing call and including a Facility information element which contains a BeginCONF invoke component with a ConfSize parameter indicating the maximum number of remote users and remains in the same state.

Selection: the BeginCONF component does contain the ConfSize parameter?

Selection: CONF invocation from the Call Held auxiliary state is supported. PICS: MC 3.1..

CONF_U02_005 **subclause 9.2.2.1** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a FACILITY message with a correctly encoded BeginCONF return result component does not respond to the network and remains in the same state.

CONF_U02_006 **subclause 9.2.2.1** **valid optional**

Ensure that the IUT, in the call state U10 (Call Held), receiving a FACILITY message with a correctly encoded BeginCONF return result component does not respond to the network and remains in the same state.

Selection: CONF invocation from the Call Held auxiliary state is supported. PICS: MC 3.1..

CONF_U02_007 **subclause 9.2.2.2** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a FACILITY message with a correctly encoded BeginCONF return error component does not respond to the network and remains in the same state.

CONF_U02_008 **subclause 9.2.2.2** **valid optional**

Ensure that the IUT, in the call state U10 (Call Held), receiving a FACILITY message with a correctly encoded BeginCONF return error component does not respond to the network and remains in the same state.

Selection: CONF invocation from the Call Held auxiliary state is supported. PICS: MC 3.1..

CONF_U02_009 **subclause 9.2.2.1** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving a FACILITY message with an incorrectly encoded BeginCONF return result component including an invalid invokeID sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem remains in the same state.

CONF_U02_010 **subclause 9.2.2.1** **invalid optional**

Ensure that the IUT, in the call state U10 (Call Held), receiving a FACILITY message with an incorrectly encoded BeginCONF return result component including an invalid invokeID sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem and remains in the same state.

Selection: CONF invocation from the Call Held auxiliary state is supported. PICS: MC 3.1..

CONF_U02_011 **subclause 9.2.2.2** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving a FACILITY message with an incorrectly encoded BeginCONF return error component including an invalid invokeID

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem and remains in the same state.

CONF_U02_012 **subclause 9.2.2.2** **invalid optional**

Ensure that the IUT, in the call state U10 (Call Held), receiving a FACILITY message with an incorrectly encoded BeginCONF return error component including an invalid invokeID

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem and remains in the same state.

Selection: CONF invocation from the Call Held auxiliary state is supported. PICS: MC 3.1..

6.2.1.2 **Adding**

CONF_U03_001 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10 and in the CCRRef call state U10, to add the remote user to the conference

sends a FACILITY message indicating the call reference of the call to be added (SCRef) and including a Facility information element containing an AddCONF invoke component with the correct Conferenceld parameter and remains in the same states.

Selection: the IUT is able to handle 2 (non-held) calls.

CONF_U03_002 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10(Call Held) and in the CCRRef call state U10 (Idle), to add the remote user to the conference

sends a FACILITY message indicating the call reference of the call to be added (SCRef) and including a Facility information element containing an AddCONF invoke component with the correct Conferenceld parameter and remains in the same states.

Selection: adding of a party from the Call Held auxiliary state is supported. PICS: MC 3.2..

CONF_U03_003 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10(Call Held) and in the CCRRef call state U10 (Call Held), to add the remote user to the conference

sends a FACILITY message indicating the call reference of the call to be added (SCRef) and including a Facility information element containing an AddCONF invoke component with the correct Conferenceld parameter and remains in the same states.

Selection: adding of a party from the Call Held auxiliary state with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.2 AND MC 3.3.

CONF_U03_004 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10(Idle) and in the CCRRef call state U10 (Call Held), to add the remote user to the conference

sends a FACILITY message indicating the call reference of the call to be added and including a Facility information element containing an AddCONF invoke component with the correct Conferenceld parameter and remains in the same states.

Selection: adding of a party with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.3.

CONF_U03_005 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10 and in the CCRRef call state U10, receiving a correctly encoded AddCONF return result component with a PartyId in a DISCONNECT message

enters SCRef in call state U12 and retains the CCRRef in the same call state.

Selection: the IUT is able to handle 2 (non-held) calls.

CONF_U03_006 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10, (Idle) and in the CCRRef call state U10, (Call Held) receiving a correctly encoded AddCONF return result component with a PartyId in a DISCONNECT message

enters SCRef in call state U12 and retains the CCRRef in the same call state.

Selection: adding of a party with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.3.

CONF_U03_007 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRref call state U10, (Idle) receiving a correctly encoded AddCONF return result component with a PartyId in a DISCONNECT message

enters SCRef in call state U12 and retains the CCRref in the same call state.

Selection: adding of a party from the Call Held auxiliary state is supported. PICS: MC 3.2.

CONF_U03_008 **subclause 9.2.3.1** **valid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRref call state U10, (Call Held) receiving a correctly encoded AddCONF return result component with a PartyId in a DISCONNECT message

enters SCRef in call state U12 and retains the CCRref in the same call state.

Selection: adding of a party from the Call Held auxiliary state with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.2 AND MC 3.3.

CONF_U03_009 **subclause 9.2.3.1** **invalid optional**

Ensure that the IUT, in the SCRef call state U10 and in the CCRref call state U10, receiving an incorrectly encoded AddCONF return result component including an invalid invokeID in a DISCONNECT message sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U12 and retains the CCRref in the same call state

or

sends a RELEASE message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U19 and retains the CCRref in the same call state.

Selection: the IUT is able to handle 2 (non-held) calls.

CONF_U03_010 **subclause 9.2.3.1** **invalid optional**

Ensure that the IUT, in the SCRef call state U10, (Idle) and in the CCRref call state U10, (Call Held) receiving an incorrectly encoded AddCONF return result component including an invalid invokeID in a DISCONNECT message

sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U12 and retains the CCRref in the same call state

or

sends a RELEASE message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U19 and retains the CCRref in the same call state..

Selection: adding of a party with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.3.

CONF_U03_011 **subclause 9.2.3.1** **invalid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRref call state U10, (Idle) receiving an incorrectly encoded AddCONF return result component including an invalid invokeID in a DISCONNECT message

sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U12 and retains the CCRref in the same call state

or

sends a RELEASE message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U19 and retains the CCRref in the same call state..

Selection: adding of a party from the Call Held auxiliary state is supported. PICS: MC 3.2.

CONF_U03_012 **subclause 9.2.3.1** **invalid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRRef call state U10, (Call Held) receiving an incorrectly encoded AddCONF return result component including an invalid invokeID in a DISCONNECT message

sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U12 and retains the CCRRef in the same call state

or

sends a RELEASE message containing a Facility information element with a reject component encoded as return result problem, enters SCRef in call state U19 and retains the CCRRef in the same call state..

Selection: adding of a party from the Call Held auxiliary state with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.2 AND MC 3.3.

CONF_U03_013 **subclause 9.2.3.2** **valid optional**

Ensure that the IUT, in the SCRef call state U10 and in the CCRRef call state U10, receiving a correctly encoded AddCONF return error component in a FACILITY message

does not respond to the network and remains in the same states

Selection: the IUT is able to handle 2 (non-held) calls.

CONF_U03_014 **subclause 9.2.3.2** **valid optional**

Ensure that the IUT, in the SCRef call state U10, (Idle) and in the CCRRef call state U10, (Call Held) receiving a correctly encoded AddCONF return error component in a FACILITY message

does not respond to the network and remains in the same states

Selection: adding of a party with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.3.

CONF_U03_015 **subclause 9.2.3.2** **valid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRRef call state U10, (Idle) receiving a correctly encoded AddCONF return error component in a FACILITY message

does not respond to the network and remains in the same states

Selection: adding of a party from the Call Held auxiliary state is supported. PICS: MC 3.2.

CONF_U03_016 **subclause 9.2.3.2** **valid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRRef call state U10, (Call Held) receiving a correctly encoded AddCONF return error component in a FACILITY message

does not respond to the network and remains in the same states

Selection: adding of a party from the Call Held auxiliary state with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.2 AND MC 3.3.

CONF_U03_017 **subclause 9.2.3.2** **invalid optional**

Ensure that the IUT, in the SCRef call state U10 and in the CCRRef call state U10, receiving an incorrectly encoded AddCONF return error component including an invalid invokeID in a FACILITY message

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem and remains in the same call state.

Selection: the IUT is able to handle 2 (non-held) calls.

CONF_U03_018 **subclause 9.2.3.2** **invalid optional**

Ensure that the IUT, in the SCRef call state U10, (Idle) and in the CCRRef call state U10, (Call Held) receiving an incorrectly encoded AddCONF return error component including an invalid invokeID in a FACILITY message

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem and remains in the same call state.

Selection: adding of a party with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.3.

CONF_U03_019 **subclause 9.2.3.2** **invalid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRRef call state U10, (Idle) receiving an incorrectly encoded AddCONF return error component including an invalid invokeID in a FACILITY message

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem and remains in the same call state.

Selection: adding of a party from the Call Held auxiliary state is supported. PICS: MC 3.2.

CONF_U03_020 **subclause 9.2.3.2** **invalid optional**

Ensure that the IUT, in the SCRef call state U10, (Call Held) and in the CCRRef call state U10, (Call Held) receiving an incorrectly encoded AddCONF return error component including an invalid invokeID in a FACILITY message

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem and remains in the same call state.

Selection: adding of a party from the Call Held auxiliary state with the Conference call in the Call Held auxiliary state is supported. PICS: MC 3.2 AND MC 3.3.

6.2.1.3 **Isolate****CONF_U04_001** **subclause 9.2.4.1** **valid mandatory**

Ensure that the IUT, in the call state U10, to isolate a remote user from the conference,

sends a FACILITY message including a Facility information element which contains an IsolateCONF invoke component with the correct PartyId parameter identifying the remote user and remains in the same state.

CONF_U04_002 **subclause 9.2.4.1** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a correctly encoded IsolateCONF return result component in a FACILITY message

saves the PartyId parameter, does not respond to the network and remains in the same state.

CONF_U04_003 **subclause 9.2.4.1** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving an incorrectly encoded IsolateCONF return result component including an invalid invokeID in a FACILITY message

sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, does not respond to the network and remains in the same state.

CONF_U04_004 **subclause 9.2.4.2** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a correctly encoded IsolateCONF return error component in a FACILITY message

does not respond to the network and remains in the same state.

CONF_U04_005 **subclause 9.2.4.2** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving an incorrectly encoded IsolateCONF return error component including an invalid invokeID in a FACILITY message

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem, does not respond to the network and remains in the same state.

6.2.1.4 **Reattach****CONF_U05_001** **subclause 9.2.5.1** **valid mandatory**

Ensure that the IUT, in the call state U10, to reattach an isolated remote user

sends a FACILITY message including a Facility information element containing a ReattachCONF invoke component with the correct PartyId parameter identifying the isolated remote user and remains in the same state.

CONF_U05_002 **subclause 9.2.5.1** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving FACILITY message with a correctly encoded ReattachCONF return result component

does not respond to the network and remains in the same state.

CONF_U05_003 **subclause 9.2.5.1** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving FACILITY message with an incorrectly encoded ReattachCONF return result component including an invalid invokeID

sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, does not respond to the network and remains in the same state.

CONF_U05_004 **subclause 9.2.5.2** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving FACILITY message with a correctly encoded ReattachCONF return error component

does not respond to the network and remains in the same state.

CONF_U05_005 **subclause 9.2.5.2** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving FACILITY message with an incorrectly encoded ReattachCONF return error component including an invalid invokeID

sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem, does not respond to the network and remains in the same state.

6.2.1.5 **Split****CONF_U06_001** **subclause 9.2.6.1** **valid optional**

Ensure that the IUT, while the bridge call is in the state U10, to split a remote user

sends on a second call reference a SETUP message containing a Facility information element with a SplitCONF invoke component with a Conferenceld parameter and a PartyId parameter identifying the remote user to be split, a compatible (for CONF purpose) Bearer capability information element, no Called party number and no Called party subaddress information elements, retains the CCRef in the same state and enters the split call in state U01.

Selection: the IUT is able to handle 2 (non-held) calls.

CONF_U06_002 **subclause 9.2.6.1** **valid optional**

Ensure that the IUT, while the bridge call is in the state U10, (Call Held) to split a remote user

sends on a second call reference a SETUP message containing a Facility information element with a SplitCONF invoke component with a Conferenceld parameter and a PartyId parameter identifying the remote user to be split, a compatible (for CONF purpose) Bearer capability information element, no Called party number and no Called party subaddress information elements, retains the CCRef in the same state and enters the split call in state U01.

Selection: the IUT conforms to ETS 300 196-1 for HOLD and RETRIEVE.

CONF_U06_003 **subclause 9.2.6.1** **valid mandatory**

Ensure that the IUT, in the call state U03 after a splitting demand, receiving a correctly encoded SplitCONF return result component in a CONNECT message

discards the split PartyId, does not respond to the network retains the CCRef in the same state and enters the split call in state U10.

CONF_U06_004 **subclause 9.2.6.1** **invalid mandatory**

Ensure that the IUT, in the call state U03 after a splitting demand, receiving an incorrectly encoded SplitCONF return result component in a CONNECT message including an invalid invokeID

sends a FACILITY or a DISCONNECT message containing a Facility information element with a reject component encoded as return result problem and retains the CCRef in the same state.

CONF_U06_005 **subclause 9.2.6.1** **valid mandatory**

Ensure that the IUT, in the call state U03 after a splitting demand, receiving a correctly encoded SplitCONF return error component in a DISCONNECT message,

retains the CCRef in the same state and enters the split call in state U12.

CONF_U06_006 **subclause 9.2.6.1** **invalid mandatory**

Ensure that the IUT, in the call state U03 after a splitting demand, receiving an incorrectly encoded SplitCONF return error component in a DISCONNECT message including an invalid invokeID

retains the CCRef in the same state and sends a Facility information element with a reject component encoded as return error problem in a FACILITY message and enters the split call in state U12 or in a RELEASE message and enters the split call in state U19.

6.2.1.6 Disconnection

6.2.1.6.1 Disconnection of Remote User

CONF_U07_001 **subclause 9.2.7.1** **valid mandatory**

Ensure that the IUT, in the call state U10, to disconnect a remote user of the conference sends a FACILITY message including a Facility information element containing a DropCONF invoke component with the PartyId parameter identifying the remote user and remains in the same state.

CONF_U07_002 **subclause 9.2.7.1** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a correctly encoded DropCONF return result component in FACILITY message releases the PartyId dropped, does not respond to the network and remains in the same state.

CONF_U07_003 **subclause 9.2.7.1** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving an incorrectly encoded DropCONF return result component in FACILITY message including an invalid invokeID sends a FACILITY message containing a Facility information element with a reject component encoded as return result problem, does not respond to the network and remains in the same state.

CONF_U07_004 **subclause 9.2.7.2** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a correctly encoded DropCONF return error component in FACILITY message remains in the same state.

CONF_U07_005 **subclause 9.2.7.2** **invalid mandatory**

Ensure that the IUT, in the call state U10, receiving an incorrectly encoded DropCONF return error component in FACILITY message including an invalid invokeID sends a FACILITY message containing a Facility information element with a reject component encoded as return error problem, does not respond to the network and remains in the same state.

6.2.1.6.2 Disconnection by Remote User

CONF_U08_001 **subclause 9.2.8.1** **valid mandatory**

Ensure that the IUT, in the call state U10, receiving a correctly encoded PartyDISC invoke component in a FACILITY message releases the PartyId indicated and remains in the same state.

6.2.1.7 Terminate

CONF_U09_001 **subclause 9.2.9.1** **valid mandatory**

Ensure that the IUT, in the call state U10, to terminate the conference, sends a DISCONNECT message and enters state U11.

CONF_U09_002 **subclause 9.2.9.1** **valid mandatory**

Ensure that the IUT, in the call state U11 receiving a RELEASE message sends a RELEASE COMPLETE message, clears the Conferenceld and all the PartyId parameters associated and enters state U00.

CONF_U09_003 **subclause 9.2.9.2** **valid mandatory**

Ensure that the IUT, in the call state U19 receiving a RELEASE COMPLETE message clears the Conferenceld and all the PartyId parameters associated and enters state U00.

6.2.2 Private ISDN (T)

Selection: Private ISDN provides conference service and sends notifications to remote users in public network. PICS: MC 2.1.

CONF_U10_001 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, in the call state U10, to indicate the adding of a new user to the conference or the establishment of the conference with the call associated with the user
sends a NOTIFY message, for the remote user who is now part of the conference, with Notification indicator information element indicating that this remote user is now part of the conference ("Conference established") and remains in the same state.

CONF_U10_002 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, in the call state U10, to indicate the adding of a new user to the conference
sends a NOTIFY message, for the remote user who was already part of the conference, with Notification indicator information element indicating that another remote user has been added to the conference ("Other party added") and remains in the same state.

NOTE 1: The focus of the test purpose is the single interface with one remote user who resides in the public network. It should be noted that the private network would normally send notifications to all remote users.

CONF_U10_003 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, in the call state U10, after the isolation of a remote user
sends a NOTIFY message for the isolated remote user with Notification indicator information element indicating that this remote user has been isolated ("Isolated") and remains in the same state.

CONF_U10_004 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, in the call state U10, after the isolation of a remote user
sends a NOTIFY message for the (non-isolated) remote user with a Notification indicator information element indicating that a remote user has been isolated ("Other party isolated").

NOTE 2: The focus of the test purpose is the single interface with one remote user who resides in the public network. It should be noted that the private network would normally send notifications to all remote users.

CONF_U10_005 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, in the call state U10, after the reattachment of a remote user
sends a NOTIFY message for the previously isolated remote user with Notification indicator information element indicating that this remote user has been reattached ("Reattached") and remains in the same state.

CONF_U10_006 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, if a previously isolated remote user has been successfully reattached
sends a NOTIFY message for the remote user (not involved in the isolation/reattachment) with a Notification indicator information element indicating that a remote user has been reattached ("Other party reattached").

NOTE 3: The focus of the test purpose is the single interface with one remote user who resides in the public network. It should be noted that the private network would normally send notifications to all remote users.

CONF_U10_007 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, in the call state U10, after the splitting of a remote user
sends a NOTIFY message for the split remote user with Notification indicator information element indicating "Conference disconnected" and remains in the same state.

CONF_U10_008 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, if a remote user has been successfully split sends a NOTIFY message for the (non-split) remote user with a Notification indicator information element indicating that a remote user has been split ("Other party split").

NOTE 4: The focus of the test purpose is the single interface with one remote user who resides in the public network. It should be noted that the private network would normally send notifications to all remote users.

CONF_U10_09 **clause 10 paragraph 3** **valid** **mandatory**

Ensure that the IUT, if a remote user has been disconnected from the conference sends a NOTIFY message for the (non-disconnected) remote user with a Notification indicator information element indicating that a remote user has been disconnected ("Other party disconnected").

NOTE 5: The focus of the test purpose is the single interface with one remote user who resides in the public network. It should be noted that the private network would normally send notifications to all remote users.

History

Document history	
October 1995	Public Enquiry PE 94: 1995-10-23 to 1996-02-16
June 1996	Converted into Adobe Acrobat Portable Document Format (PDF)