

Draft **EN 300 185-3** V1.2.3 (1998-02)

European Standard (Telecommunications series)

**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**



European Telecommunications Standards Institute

Reference

REN/SPS-05145-J1-3 (1por0iq0.PDF)

Keywords

ISDN, DSS1, supplementary service, CONF,
testing, TSS&TP, user

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document 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: "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.

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

1 Scope

This third part of EN 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 the Conference call, add-on (CONF) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 185-1 [1].

A further part of this EN 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 Network side of the T reference point or coincident S and T reference point of implementations conforming to EN 300 185-1 [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 300 185-1 (V1.2): "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [2] EN 300 185-2 (V1.2): "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] 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".

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].

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].

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 300 185-1

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

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

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

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

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.

remote user: A user which is involved in an instance of the CONF supplementary service but who has no control over it.

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

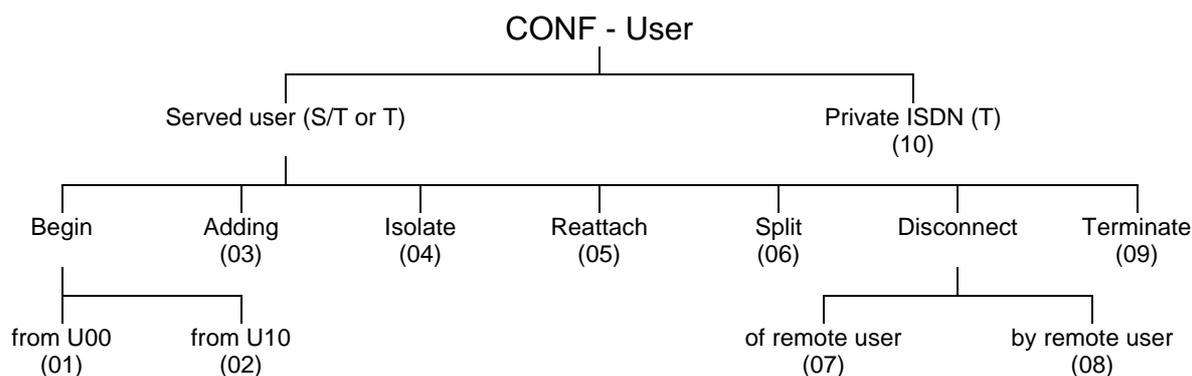
user (T): The DSS1 protocol entity at the User side of the user-network interface where a T reference point applies (User is the Private ISDN).

4 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CCRef	Call Reference for call related to the conference
CONF	Conference call, add-on
DSS1	Digital Subscriber Signalling System No. one
ISDN	Integrated Services Digital Network
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
U01	Call Initiated call state
U03	Outgoing Call Proceeding 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 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. "CONF"	
<iut>	=	type of IUT:	U User N 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 300 185-1 [1], clauses 9, 10 and 14.

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

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> or <goal>	U10, U10, 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 call state or and enters call state <state>	sends, saves, does, etc. using en-bloc sending, ...
Message structure	<message type> message containing a <i>a)</i> <info element> information element with <i>b)</i> a <field name> encoded as or 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 EN 300 185-1 [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 300 185-2 [2]. The criteria applied included 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.

6.2 User TPs for CONF

All PICS items referred to in this subclause are as specified in EN 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 and a compatible (for CONF purposes) Bearer capability information element, no Called party number and no Called party subaddress information element included and enters call 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 and a compatible (for CONF purposes) Bearer capability information element, no Called party number and no Called party subaddress information element included and enters call 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 ConferenceId parameter, does not respond to the network and enters call 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 call 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 call state U00,

or

sends a RELEASE COMPLETE message containing a Facility information element with a reject component encoded as return error problem and enters call 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 message containing a Facility information element with a reject component encoded as return error problem and enters call state U12,

or

sends a RELEASE message containing a Facility information element with a reject component encoded as return error problem and enters call 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 containing a Facility information element with a BeginCONF invoke component and remains in the same call 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 containing a Facility information element with a BeginCONF invoke component and remains in the same call 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 containing a Facility information element with a BeginCONF invoke component with a ConfSize parameter indicating the maximum number of remote users and remains in the same call 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 containing a Facility information element with a BeginCONF invoke component with a ConfSize parameter indicating the maximum number of remote users and remains in the same call 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 call 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 call 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 call 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 call 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 call 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 call 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 call 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 call 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) containing a Facility information element with an AddCONF invoke component including the correct ConferenceId parameter and remains in the same call states.

Selection: The IUT is able to handle two (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) containing a Facility information element with an AddCONF invoke component including the correct ConferenceId parameter and remains in the same call 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 CCRef 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) containing a Facility information element with an AddCONF invoke component including the correct ConferenceId parameter and remains in the same call 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 CCRef 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 containing a Facility information element with an AddCONF invoke component including the correct ConferenceId parameter and remains in the same call 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 CCRef 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 CCRef in the same call state.

Selection: The IUT is able to handle two (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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef in the same call state.

Selection: The IUT is able to handle two (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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 CCRef 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 call states

Selection: The IUT is able to handle two (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 CCRef 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 call 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 CCRef 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 call 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 CCRef 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 call 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 CCRef 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 two (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 CCRef 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 CCRef 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 CCRef 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 call 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 call 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 and remains in the same call 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 call 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 and remains in the same call 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 call 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 call 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 and remains in the same call 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 call 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 and remains in the same call 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 ConferenceId parameter and a PartyId parameter identifying the remote user to be split, a compatible (for CONF purposes) Bearer capability information element, no Called party number and no Called party subaddress information elements, retains the CCRref in the same call state and enters the split call in call state U01.

Selection: The IUT is able to handle two (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 ConferenceId parameter and a PartyId parameter identifying the remote user to be split, a compatible (for CONF purposes) Bearer capability information element, no Called party number and no Called party subaddress information elements, retains the CCRref in the same call state and enters the split call in call state U01.

Selection: The IUT conforms to EN 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 CCRref in the same call state and enters the split call in call 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 CCRref in the same call 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 CCRref in the same call state and enters the split call in call 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 CCRref 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 call state U12 or in a RELEASE message and enters the split call in call 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 call 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 call 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 and remains in the same call 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 call 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 and remains in the same call 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 call 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 call state U11.

Annex A (informative): Changes with respect to the previous ETS 300 185-3

The following changes have been done:

- conversion to EN layout;
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

History

Document history		
Edition 1	October 1996	Publication as ETS 300 185-3
V1.2.3	February 1998	One-step Approval Procedure OAP 9824: 1998-02-13 to 1998-06-12