



SLOVENSKI STANDARD

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8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]g]c]f]h]j Ua]f]c]8 BŁ!`8 cdc`b]`bUg]c]f]h]j .
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g][bU]nU]Y`Y`y]H`"%fB GG%Ł!" "XY.`N[fUXVUdfYg_i yU]bY[U]b]nU]b`b]Ua Yb]
dfYg_i yUb`U]f]HGG/ HDŁ!`GdY]W]Z_ U]Y`U]nU]i dcfU]b]_U

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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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**

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Contents

Intellectual Property Rights.....	4
Foreword	4
1 Scope.....	5
2 Normative references	5
3 Definitions.....	6
3.1 Definitions related to conformance testing	6
3.2 Definitions related to EN 300 185-1	6
4 Abbreviations	7
5 Test Suite Structure (TSS)	7
6 Test Purposes (TP).....	7
6.1 Introduction.....	7
6.1.1 TP naming convention.....	8
6.1.2 Source of TP definition	8
6.1.3 TP structure.....	8
6.1.4 Test strategy	9
6.2 User TPs for CONF	9
6.2.1 Served user (S/T or T).....	9
6.2.1.1 Begin	9
6.2.1.1.1 Begin from U00.....	9
6.2.1.1.2 Begin from U10	10
6.2.1.2 Adding.....	11
6.2.1.3 Isolate	14
6.2.1.4 Reattach.....	15
6.2.1.5 Split	15
6.2.1.6 Disconnection	16
6.2.1.6.1 Disconnection of remote user.....	16
6.2.1.6.2 Disconnection by remote user.....	16
6.2.1.7 Terminate.....	16
6.2.2 Private ISDN (T).....	17
7 Compliance	18
8 Requirements for a comprehensive testing service.....	18
Annex A (informative): Changes with respect to the previous ETS 300 185-3	19
History	20

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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 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.

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 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.

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- SIST EN 300 185-3 V1.2.4:2005**
- [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].

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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).

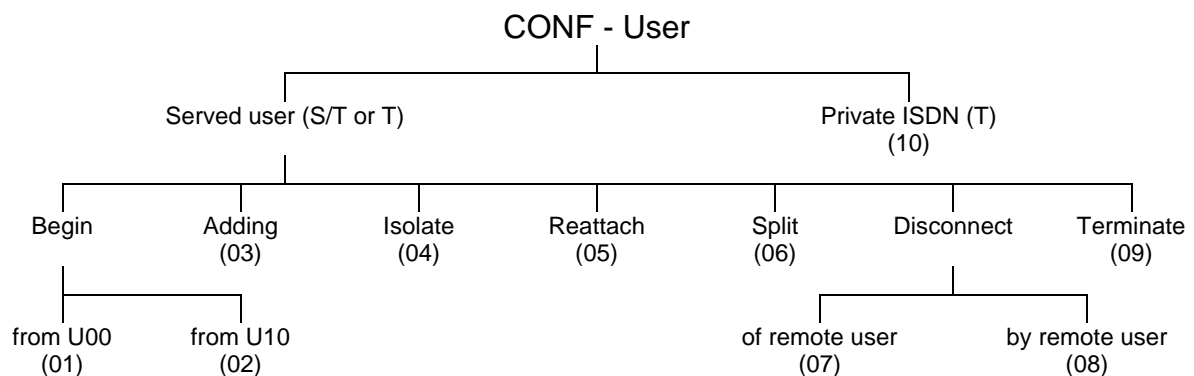
4 Abbreviations

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

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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>, etc. 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 a) <info element> information element with b) 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.