



SLOVENSKI STANDARD SIST ETS 300 061-6:1998

01-junij-1998

8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]`g]c]f]h]j Ua]`f]G8 BŁ!`8 cdc`b]`bU]g]c]f]h]j .
dcXbUg`Uj``Ub`Y`f]G] 6 Ł!`Df]c]c`_c`X]]]H]b]Y]b]U]c` b]y`_Y`g]] bU]n]U]Y]Y`ý]h`%f]B GG%Ł!`* "
XY. `B]n`U]V]g]f]U`_]h]`] `df]Y]g`_i` gc]j` `f]b` H]G]Ł]b`XY]b]U]X]c]X]U]b]U]b]Z]fa` U]Y]U]n]U]df]Y]g`_i` ý]Ub`Y`
]nj` Y]X]V]Y`df]c]c`_c`U]f]D]Ł]Ł]Ł!`Df]c]Z]fa` b]U]gd]Y]V]Z]_U]Y]U]n]U]ca` f]Y]y`Y`

Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 6: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network

(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>

Ta slovenski standard je istoveten z: ETS 300 061-6 Edition 1

ICS:

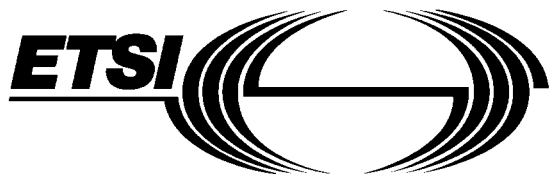
33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
--------	---	--

SIST ETS 300 061-6:1998 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 061-6:1998](#)

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 061-6

May 1997

Source: ETSI TC-SPS

Reference: DE/SPS-05061-I-6

ICS: 33.020

Key words: ISDN, DSS1, supplementary service, SUB, testing, ATS, PIXIT, network

**Integrated Services Digital Network (ISDN);
Subaddressing (SUB) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 6: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing (PIXIT) proforma
specification for the network**

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1997. All rights reserved.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ETS 300 061-6:1998](https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998)

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>

Contents

Foreword	7
1 Scope	9
2 Normative references	9
3 Definitions and abbreviations	10
3.1 Definitions	10
3.2 Abbreviations	10
4 Abstract Test Method (ATM)	11
4.1 Description of ATM used	11
4.1.1 Conventions for test components and PCOs	11
4.1.2 Conventions for variables and parameters	12
4.2 Alternative ATM	13
5 Untestable test purposes	13
6 ATS conventions	14
6.1 Declarations part	14
6.1.1 Type definitions	14
6.1.1.1 Simple type definitions	14
6.1.1.2 Structured type definitions	14
6.1.1.2.1 TTCN structured type definitions	14
6.1.1.2.2 ASN.1 structured type definitions	14
6.1.1.3 ASP type definitions	15
6.1.1.3.1 TTCN ASP type definitions	15
6.1.1.3.2 ASN.1 ASP type definitions	16
6.1.1.4 PDU type definitions	16
6.1.1.4.1 TTCN PDU type definitions	16
6.1.1.4.2 ASN.1 PDU type definitions	16
6.1.2 Test suite constants	16
6.1.3 Test suite parameters	16
6.1.4 Variables	16
6.1.4.1 Test suite variables	16
6.1.4.2 Test case variables	16
6.1.5 Test suite operation definitions	17
6.2 Constraints part	17
6.2.1 Structured type constraint declaration	17
6.2.2 ASN.1 type constraint declaration	17
6.2.2.1 Specification of encoding rules	17
6.2.3 ASP type constraint declaration	17
6.2.3.1 ASN.1 ASP type constraint declaration	17
6.2.3.2 TTCN ASP type constraint declaration	18
6.2.4 PDU type constraint declaration	18
6.2.4.1 ASN.1 PDU type constraint declaration	18
6.2.4.2 TTCN PDU type constraint declaration	18
6.2.5 Chaining of constraints	18
6.2.5.1 Static chaining	18
6.2.5.2 Dynamic chaining	18
6.2.6 Derived constraints	18
6.2.7 Parameterized constraints	18
6.2.8 Value assignment	19
6.2.8.1 Specific values	19
6.2.8.2 Matching values	19

6.3	Dynamic part	19
6.3.1	Test cases	19
6.3.2	Test steps	19
6.3.2.1	PTC1_IN	19
6.3.2.2	PTC1_OUT	19
6.3.3	Defaults.....	19
7	ATS to TP map	19
8	PCTR conformance	20
9	PIXIT conformance.....	20
10	ATS conformance.....	20
Annex A (normative): Protocol Conformance Test Report (PCTR) proforma		21
A.1	Identification summary.....	21
A.1.1	Protocol conformance test report.....	21
A.1.2	IUT identification.....	21
A.1.3	Testing environment.....	21
A.1.4	Limits and reservations	22
A.1.5	Comments.....	22
A.2	IUT conformance status	22
A.3	Static conformance summary	22
A.4	Dynamic conformance summary.....	22
A.5	Static conformance review report.....	23
A.6	Test campaign report.....	23
A.7	Observations.....	23
Annex B (normative): Partial PIXIT proforma		24
B.1	Identification summary.....	24
B.2	Abstract test suite summary	24
B.3	Test laboratory.....	24
B.4	Client (of the test laboratory)	25
B.5	System Under Test (SUT)	25
B.6	Protocol information.....	26
B.6.1	Protocol identification	26
B.6.2	Parameter values	26
B.6.3	Number information parameter values.....	26
B.6.4	Configuration of IUT	26
B.6.5	Timer values.....	27
B.7	Basic call PIXIT items.....	27
B.7.1	Parameter values - information element codings.....	27

iTech STANDARD PREVIEW
(standards.itech.ai)

SIST ETS 300 061-6:1998

[https://standards.itech.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-](https://standards.itech.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998)

[3b9a36cc3688/sist-ets-300-061-6-1998](https://standards.itech.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998)

Annex C (normative):	Abstract Test Suite (ATS).....	28
C.1	The TTCN Graphical form (TTCN.GR)	28
C.2	The TTCN Machine Processable form (TTCN.MP)	28
Annex D (informative):	General structure of ATS.....	29
History.....		30

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ETS 300 061-6:1998](https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998)

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>

Blank page

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 061-6:1998](https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998)

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>

Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 6 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Subaddressing (SUB) 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".

Transposition dates	
Date of adoption:	23 May 1997
Date of latest announcement of this ETS (doa):	31 August 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	28 February 1998
Date of withdrawal of any conflicting National Standard (dow):	28 February 1998

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6c51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>

Blank page

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 061-6:1998](https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998)

<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b9a36cc3688/sist-ets-300-061-6-1998>

1 Scope

This sixth part of ETS 300 061 specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the Network side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [11]) of implementations conforming to the stage three standard for the Subaddressing (SUB) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, ETS 300 061-1 [2].

ETS 300 061-5 [4] specifies the Test Suite Structure and Test Purposes (TSS&TP) related to this ATS and partial PIXIT proforma specification. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to ETS 300 061-1 [2].

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 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [2] ETS 300 061-1 (1991): "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [3] ETS 300 061-2 (1995): "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [4] ETS 300 061-5: "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network".
- [5] ETS 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".
- [6] ISO/IEC 9646-1: "Information technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".
- [7] ISO/IEC 9646-2: "Information technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite Specification".
- [8] ISO/IEC 9646-3: "Information technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".
- [9] ISO/IEC 9646-4: "Information technology - OSI Conformance Testing Methodology and Framework; Part 4: Test realization".
- [10] ISO/IEC 9646-5: "Information technology - OSI Conformance Testing Methodology and Framework; Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [11] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

- [12] CCITT Recommendation X.209 (1988): "Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)".

3 Definitions and abbreviations

3.1 Definitions

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

Abstract Test Suite (ATS): See ISO/IEC 9646-1 [6].

Implementation Under Test (IUT): See ISO/IEC 9646-1 [6].

Lower Tester (LT): See ISO/IEC 9646-1 [6].

Point Of Control And Observation (PCO): See ISO/IEC 9646-1 [6].

Protocol Implementation Conformance Statement (PICS): See ISO/IEC 9646-1 [6].

PICS proforma: See ISO/IEC 9646-1 [6].

Protocol Implementation Extra Information For Testing (PIXIT): See ISO/IEC 9646-1 [6].

PIXIT proforma: See ISO/IEC 9646-1 [6].

System Under Test (SUT): See ISO/IEC 9646-1 [6].

Upper Tester (UT): See ISO/IEC 9646-1 [6].

3.2 Abbreviations

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

ASP	Abstract Service Primitive
ATM	Abstract Test Method
ATS	Abstract Test Suite
BER	Basic Encoding Rules
CM	Co-ordination Message
CP	Co-ordination Point
ExTS	Executable Test Suite
IUT	Implementation Under Test
LT	Lower Tester
MOT	Means Of Testing
MTC	Main Test Component
PCO	Point of Control and Observation
PCTR	Protocol Conformance Test Report
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PTC	Parallel Test Component
SUB	Subaddressing
SUT	System Under Test
TCP	Test Co-ordination Procedures
TP	Test Purpose
TTCN	Tree and Tabular Combined Notation
UT	Upper Tester

ITeH STANDARD PREVIEW
(standards.iteh.ai)

SIST ETS 300 061-6:1998
<https://standards.iteh.ai/catalog/standards/sist/0d920514-6e51-461a-b2c2-3b166c1788/sist-ets-300-061-6-1998>