

SLOVENSKI STANDARD SIST EN 301 060-2:2000

01-december-2000

8][]ltJbcˈca fYÿ'Yˈnˈ]bhY[f]fUb]a]ˈglɒf]lij Ua]ˈfls68 BŁ'! Dfclɒ_c``X][]ltJbYˈbUfc b]ý_Y
g][bU]nUVJ'Yʻýhl'%f8 GG%Ł': ?fa] 'Yb'Yʻcgbcj bY[U_`]WU! FUný]f]lhYj ˈdf]ˈglɒf]lij Yb]
df]glɒdb]ˈlɒ _] '"V"ˈnUUd`]_UVJ'Y`bUj]XYnbY[UnUgYVbY[Uca fYÿ'UˈflJ DBŁIˈ&"XY`.

n'Uj Ucˈg_`UXbcgh]]nj YXVYˈdfclɒ_c`UfD=7 GŁ'! DfcZcfa UˈgdYVJZ_UVJ'Y

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Basic call control; Enhancement at the b service entry point for Virtual Private Network (VPN) applications; Part 2: Protocol Implementation Conformance Statement (PICS) proformal specification DARD PREVIEW

(standards.iteh.ai)

<u>SIST EN 301 060-2:2000</u> https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34-f90fd3eb3da7/sist-en-301-060-2-2000

Ta slovenski standard je istoveten z: EN 301 060-2 Version 1.1.3

ICS:

33.080 Digitalno omrežje z

integriranimi storitvami

(ISDN)

Integrated Services Digital

Network (ISDN)

SIST EN 301 060-2:2000 en

SIST EN 301 060-2:2000

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 301 060-2:2000

https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34-f90fd3eb3da7/sist-en-301-060-2-2000

EN 301 060-2 V1.1.3 (1998-11)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1) protocol;
Basic call control;
Enhancement at the "b" service entry point for
Virtual Private Network (VPN) applications;
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 301 060-2:2000

https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34-f90fd3eb3da7/sist-en-301-060-2-2000



2

Reference

DEN/SPS-05109-2 (9tci0ie0.PDF)

Keywords

ISDN, DSS1, VPN, PICS, basic

ETSI

Postal address

F-06921 Sophia Antipolis Cedex - FRANCE

Office address

650 Route des Lucioles - Sophia Antipolis

Valbonne - FRANCE

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

https://standards Association a but non lucratif enregistree a la Sous-Prefecture de Grasse (06) N° 7803/88

Internet

secretariat@etsi.fr Individual copies of this ETSI deliverable can be downloaded from http://www.etsi.org

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 1998. All rights reserved.

Contents

Intelle	ectual Property Rights	5
Forew	vord	5
1	Scope	<i>є</i>
2	Normative references	£
3	Definitions	
4	Symbols and abbreviations	
	Conformance	
5		
	ex A (normative): PICS proforma for EN 301 060-1	
A.1	Instructions for completing the PICS proforma	
A.1.1	Identification of the implementation	
A.1.2	Global statement of conformance	
A.1.3	Explanation of PICS proforma subclauses	
A.1.4	Symbols, abbreviations and terms	
A.2	Identification of the implementation	C
A.2.1	Implementation Under Test (IUT) identification	
A.2.2	System Under Test (SUT) identification	
A.2.3		
A.2.4	Product supplier ITCH STANDARD PREVIEW	10
A.2.5		
A.3	PICS contact person	11
A.4	Identification of the protocol SIST EN 301 060-2:2000 https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34-	
A.5	https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34-Global statement of conformance0fd3eb3da7/sist-ep-301-060-2-2000	11
A.6	Roles	
A.7	User	
A.7.1	Type of implementation	
A.7.2	Major capabilities	
A.7.3	Subsidiary capabilities	
A.7.4	Protocol data units	
A.7.4. A.7.4.		
	E ,	
A.7.5	Protocol data unit parameters.	
A.7.5. A.7.5.	· · · · · · · · · · · · · · · · · · ·	
A.7.5.	ε	
A.7.5 A.7.6	Timers	
A.8	Network	22
A.8.1	Type of implementation	22
A.8.2	Major capabilities	23
A.8.3	Subsidiary capabilities	23
A.8.4	Protocol data units	
A.8.4.	1 Message received by the network	23
A.8.4.		
A.8.5	Protocol data unit parameters	
A.8.5.		
A.8.5.	· · · · · · · · · · · · · · · · · · ·	
A.8.5.		
A.8.6	Timers	33

EN 301 060-2 V1.1.3 (1998-11)

Anne	x B (normative):	Requirements list3	4
B.1	User	3	4
B.2	Network	3	5
Histor	ry	3	6

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 301 060-2:2000

https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34-f90fd3eb3da7/sist-en-301-060-2-2000

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://www.etsi.org/ipr).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

The present document is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN); Basic call control; Enhancement at the "b" service entry point for Virtual Private Network (VPN) applications, 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".

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given Open Systems Interconnection (OSI) protocol. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

National transposition dates	
Date of adoption of this EN:	20 November 1998
Date of latest announcement of this EN (doa):	28 February 1999
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 August 1999
Date of withdrawal of any conflicting National Standard (dow):	31 August 1999

1 Scope

This second part of EN 301 060 is applicable to the basic call control extensions for Virtual Private Network (VPN) for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the "b" service entry point (as defined in EN 301 060-1 [4]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol.

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 basic call control extensions at the "b" service entry point for VPN applications as specified in EN 301 060-1 [4] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [6].

The supplier of a protocol implementation which is claimed to conform to EN 301 060-1 [4] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

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 (standards.iteh.ai)
- d) publications without mention of a specific version, in which case the latest version applies.

SIST EN 301 060-2:2000

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

90fd3eb3da7/sist-en-301-060-2-2000

[1]	EN 300 196-1 (V1.2): "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".

- [2] 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]".
- [3] EN 300 403-3: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [4] EN 301 060-1 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Basic call applications; Enhancement at the "b" service entry point for Virtual Private Network (VPN) applications; Part 1: Protocol specification".
- [5] ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".
- [6] ISO/IEC 9646-7 (1995): "Information technology; Open systems interconnection; Conformance testing methodology and framework; Part 7: Implementation Conformance Statements".
- [7] ISO/IEC 15056 (1997): "Information technology; Telecommunications and information exchange between systems; Private Integrate Service Network; Inter-exchange signalling protocol; Transit counter additional network feature".

3 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 403-1 [2] and EN 301 060-1 [4] and the following apply.

Protocol Implementation Conformance Statement (PICS): a statement made by the supplier of an OSI implementation or system, stating which capabilities have been implemented for a given OSI protocol (see ISO/IEC 9646-1 [5]).

PICS proforma: a document, in the form of a questionnaire, designed by the protocol specifier or conformance test suite specifier, which, when completed for an OSI implementation or system becomes the PICS (see ISO/IEC 9646-1 [5]).

static conformance review: a review of the extent to which the static conformance requirements are met by the Implementation Under Test (IUT), accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s) (see ISO/IEC 9646-1 [5]).

4 Symbols and abbreviations

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

C	Conditional requirement (to be observed if the relevant conditions apply)
DSS1	Digital Subscriber Signalling System No. one
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test NDARD PREVIEW
M	Mandatory requirement (to be observed in all cases)
MC	Major Capabilities (standards.iteh.ai)
MT	Messages Transmitted
N/A	Not applicable, not supported or the conditions for status are not met
No	not supported no
NOT	RODIEST TOTAL
O	Option (may be selected to suit the implementation, provided that any requirements applicable to
	the option are observed)
OSI	Open Systems Interconnection
PICS	Protocol Implementation Conformance Statement
R	Role
RL	Requirements List
SCS	System Conformance Statement
SUT	System Under Test
TI	Type of Implementation
VPN	Virtual Private Network
Yes	supported

5 Conformance

A PICS proforma which conforms to this PICS proforma specification shall be technically equivalent to annex A, and shall preserve the numbering and ordering of the items in annex A.

A PICS which conforms to this PICS proforma specification shall:

- a) describe an implementation which claims to conform to EN 301 060-1 [4];
- b) be a conforming ICS proforma which has been completed in accordance with the instructions for completion given in annex A, clause A.1;
- c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative): PICS proforma for EN 301 060-1

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

A.1 Instructions for completing the PICS proforma

A.1.1 Identification of the implementation

Identification of the IUT and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

The System Conformance Statement (SCS) as defined in ISO/IEC 9646-1 [5] is a document supplied by the client or product supplier that summarizes which OSI International Standards, ITU-T (CCITT) Recommendations, ETSs or other standards are implemented and to which conformance is claimed. The PICS/SCS subclause should describe the relationship of the PICS to the SCS.

STANDARD PREVIEW

A.1.2 Global statement of conformance ai)

If the answer to the statement in this subclause is "Yes", all subsequent subclauses should be completed to facilitate selection of test cases for optional functions hai/catalog/standards/sist/9a099b8a-80da-4074-8f34-

If the answer to the statement in this subclause is "No", all subsequent subclauses should be completed, and all non-supported mandatory capabilities should be identified and explained. Explanations may be entered in the comments field at the bottom of each table or on attached sheets of paper.

A.1.3 Explanation of PICS proforma subclauses

The PICS proforma contains a Roles clause and thereafter is presented in two parts (for user and network) with the following subclauses, as required:

- major capabilities;
- subsidiary capabilities;
- protocol data unit support;
- protocol data unit parameters;
- timers;
- call states.

The User clause shall only be completed for user implementations (including private network implementations) while the Network clause shall only be completed for network implementations. The Roles subclause shall be completed for all implementations.

The relationship between this PICS proforma and other related PICS proforma (e.g. the basic call PICS proforma) is expressed in the Requirements List (RL) contained in annex B. This provides the additional restrictions placed on the related proforma (different conditions, different status, etc.).

9

A.1.4 Symbols, abbreviations and terms

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [6].

The reference column contained in the tables gives reference to the appropriate part(s) of EN 301 060-1 [4] describing the particular item. Note, however, that a reference merely indicates the place where the core of a description of an item can be found. Any additional information contained in EN 301 060-1 [4] has to be taken into account when making a statement about the conformance of that particular item.

The following common notations, defined in ISO/IEC 9646-7 [6], are used for the status column:

M mandatory
O optional
N/A not applicable

A.2.1

O.<integer> for mutually exclusive or selectable options from a set

The following common notations, defined in ISO/IEC 9646-7 [6], are used for the support column:

Implementation Under Test (IUT) identification

 $\begin{array}{ll} Y & \qquad \text{for supported / implemented} \\ N & \qquad \text{for not supported / not implemented} \end{array}$

A.2 Identification of the implementation

IUT name:	(standards.iteh.ai)
IUT version:	SIST EN 301 060-2:2000 https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34- f90fd3eb3da7/sist-en-301-060-2-2000
A.2.2 SUT name:	System Under Test (SUT) identification
Hardware co	nfiguration:
Operating sy	stem:

A.2.3 Produ	ct supplier
Name:	
Address:	
Telephone number:	
Facsimile number:	
Additional information:	
	iTeh STANDARD PREVIEW
A.2.4 Client	(standards.iteh.ai)
Name:	SIST EN 301 060-2:2000 https://standards.iteh.ai/catalog/standards/sist/9a099b8a-80da-4074-8f34- f90ft3eb3da7/sist-en-301-060-2-2000
Address:	Doktocooda//sist-cir-501-000-2-2000
Telephone number:	
Facsimile number:	
Additional information:	