



SLOVENSKI STANDARD
SIST EN 301 069-2 V1.1.3:2003
01-november-2003

Digitalno omrežje z integriranimi storitvami (ISDN) - Signalizacija št. 7 - ISDN-uporabniški del (ISUP) - Aplikacijski prenosni mehanizem - 2. del: Izjava o skladnosti izvedbe protokola (PICS) - Proforma specifikacije

Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP); Application transport mechanism; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 069-2 V1.1.3:2003](https://standards.iteh.ai/catalog/standards/sist/af13c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003)
<https://standards.iteh.ai/catalog/standards/sist/af13c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003>

Ta slovenski standard je istoveten z: EN 301 069-2 Version 1.1.3

ICS:

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

SIST EN 301 069-2 V1.1.3:2003 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 069-2 V1.1.3:2003

<https://standards.iteh.ai/catalog/standards/sist/afd3c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003>

ETSI EN 301 069-2 V1.1.3 (2000-11)

European Standard (Telecommunications series)

**Integrated Services Digital Network (ISDN);
Signalling System No.7;
ISDN User Part (ISUP);
Application transport mechanism;
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 069-2 V1.1.3:2003](https://standards.iteh.ai/catalog/standards/sist/afd3c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003)

<https://standards.iteh.ai/catalog/standards/sist/afd3c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003>



Reference

DEN/SPS-01042-2

Keywords

ISDN, ISUP, MTP, NNI, PICS

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

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

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 069-2 V1.1.3:2003

<https://standards.iteh.ai/catalog/standards/sist/afd3c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003>

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at <http://www.etsi.org/tb/status/>

If you find errors in the present document, send your comment to:
editor@etsi.fr

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 2000.
All rights reserved.

Contents

Intellectual Property Rights	4
Foreword	4
1 Scope.....	5
2 References	5
3 Definitions and abbreviations.....	6
3.1 Definitions	6
3.2 Abbreviations.....	7
4 Conformance to the PICS proforma.....	7
Annex A (normative): PICS proforma.....	8
A.1 Instructions for completing the PICS proforma	8
A.1.1 Purposes and structure.....	8
A.1.2 Abbreviations and conventions	8
A.2 Identification of the implementation.....	9
A.2.1 Date of the statement.....	9
A.2.2 Implementation under test (IUT) identification.....	10
A.2.3 System under test (SUT) identification.....	10
A.2.4 Product supplier	10
A.2.5 Client.....	10
A.2.6 ICS contact person	10
A.3 Identification of the reference specification.....	11
A.4 PICS proforma tables.....	11
A.4.1 Global statement of conformance.....	11
A.4.2 Roles.....	11
A.4.3 Capabilities	11
Bibliography.....	12
History	13

iTech STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 069-2 V1.1.3:2003

<https://standards.iteh.ai/catalog/standards/sist/afd3c5a6-c5a9-4917-bc41-c57629626f34/sist-en-301-069-2-v1-1-3-2003>

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 ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available 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 ETSI 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 Protocol and Switching (SPS).

The present document is part 2 of a multi-part EN covering Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP); Application transport mechanism, as identified 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";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) specification".

SIST EN 301 069-2 V1.1.3:2003

<https://standards.iteh.ai/catalog/standards/sist/afd3c5a6-c5a9-4917-bc41-c5762902027/sist-en-301-069-2-v1-1-3-2003>
National transposition dates

Date of adoption of this EN:	27 October 2000
Date of latest announcement of this EN (doa):	31 January 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2001
Date of withdrawal of any conflicting National Standard (dow):	31 July 2001

1 Scope

The present document contains the validation (conformance) test specification for the Application Transport Mechanism defined in EN 301 069-1 [1]. The present document applies only to exchanges having implemented the ISUP v3 protocol specification for the Application Transport Mechanism of the exchange. It is applicable for validation testing of all types of exchanges as defined in the ISUP v3 protocol specification. It does not deal with compatibility testing.

The main body of the present document presents the Protocol Implementation Conformance Statements (PICS) for the Application Transport Mechanism defined in compliance with the relevant requirements and in accordance with the guidance given in ISO/IEC 9646-7 [4]. EN 301 069-3 [8] provides the Test Suite Structure and Test Purposes (TSS&TP) for the Application Transport Mechanism (APM).

This statement indicates which capabilities and options of a telecommunication specification have been implemented. It is necessary for evaluating the conformance of a particular implementation.

The supplier of an implementation that is claimed to comply with the reference specification for the Signalling System No.7, Application Transport Mechanism EN 301 069-1 [1], is required to complete a copy of the PICS proforma.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, 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] ETSI EN 301 069-1 (V1.2.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP); Application transport mechanism; Part 1: Protocol specification [ITU-T Recommendation Q.765, modified]".
- [2] ISO/IEC 9646-1 (1997): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General Concepts".
- [3] ISO/IEC 9646-3 (1997): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [4] ISO/IEC 9646-7 (1997): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [5] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [6] ITU-T Recommendation Q.762: "Signalling System No. 7 – ISDN user part general functions of messages and signals".
- [7] ETSI EN 300 356-31: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 31: Protocol Implementation Conformance Statement (PICS) proforma specification for basic services".
- [8] ETSI EN 301 069-3: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP); Application transport mechanism; Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification".

- [9] ETSI EN 301 070-2: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 interactions with the Intelligent Network Application Part (INAP); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [10] ITU-T Recommendation Q.761: "Signalling System No. 7 – ISDN User Part functional description".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the ATS specification, the following terms and definitions apply:

- terms defined in ISDN User Part (ISUP) reference specification [1];
- terms defined in ISO/IEC 9646-1 [2], ISO/IEC 9646-3 [3] and in ISO/IEC 9646-7 [4].

For the purposes of the present document, the following terms and definitions apply:

Abstract Test Case (ATC): complete and independent specification of the actions required to achieve a specific test purpose, defined at the level of abstraction of a particular Abstract Test Method, starting in a stable testing state and ending in a stable testing state (see ISO/IEC 9646-1 [2], subclause 3.3.3).

Abstract Test Method (ATM): description of how an IUT is to be tested, given at an appropriate level of abstraction to make the description independent of any particular realization of a Means of Testing, but with enough detail to enable abstract test cases to be specified for this method (see ISO/IEC 9646-1 [2], subclause 3.3.5).

Implementation Under Test (IUT): implementation of one or more OSI protocols in an adjacent user/provider relationship, being part of a real open system which is to be studied by testing (see ISO/IEC 9646-1 [2], subclause 3.3.43).

ISDN number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [5].

Means of Testing (MOT): combination of equipment and procedures that can perform the derivation, selection, parameterization and execution of test cases, in conformance with a reference standardized ATS, and can produce a conformance log (see ISO/IEC 9646-1 [2], subclause 3.3.54).

point of control and observation: point within a testing environment where the occurrence of test events is to be controlled and observed, as defined in an Abstract Test Method (see ISO/IEC 9646-1 [2], subclause 3.3.64).

pre-test condition: setting or state in the IUT which cannot be achieved by providing stimulus from the test environment.

Protocol Implementation Conformance Statement (PICS): statement made by the supplier of a protocol claimed to conform to a given specification, stating which capabilities have been implemented (see ISO/IEC 9646-1 [2], subclause 3.3.39 and subclause 3.3.80).

Protocol Implementation eXtra Information for Testing (PIXIT): statement made by a supplier or implementor of an IUT (protocol) which contains or references all of the information related to the IUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the IUT (see ISO/IEC 9646-1 [2], subclause 3.3.41 and subclause 3.3.81).

System Under Test (SUT): real open system in which the IUT resides (see ISO/IEC 9646-1 [2], subclause 3.3.103).

3.2 Abbreviations

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

APM	Application Transport Mechanism
ASP	Abstract Service Primitive
ATM	Abstract Test Method
ATS	Abstract Test Suite
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
IUT	Implementation Under Test
MOT	Means Of Testing
MTP	Message Transfer Part
PAN	Public Addressed Node
PICS	Protocol Implementation Conformance Statement
PIN	Public Initiated Node
PIXIT	Protocol Implementation eXtra Information for Testing
SP	Signalling Point
SUT	System Under Test
TE_P	Transit Exchange PIN/PAN
TP	Test Purpose (context dependent)
TSS	Test Suite Structure
TTCN	Tree and Tabular Combined Notation
UT	Upper Tester

The ISUP message acronyms can be found in table 2 of ITU-T Recommendation Q.762 [6].

The APM primitives acronyms can be found in the different tables of EN 301 069-1 [1].

The following abbreviations apply for ISUP parameters and parameter values:

ACI	Application Context Identifier
APP	Application Transport Parameter
ATII	Application Transport Instruction Indicator
PRI	Pre-Release
SLR	Segmentation Local Reference

4 Conformance to the PICS proforma specification

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

A PICS that conforms to this PICS proforma specification shall:

- a) describe an implementation which is claimed to conform to ISDN User part (ISUP) v3 reference specification EN 301 069-1 [1];
- b) be a conforming PICS proforma which has been completed in accordance with the instructions for completion given in clause A.1;
- c) include the information necessary to uniquely identify both the supplier and the implementation.