



SLOVENSKI STANDARD
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8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]gkcf]hj Ua]`fG8 BkE`G][bU]nUWY`UyH`+`E`
 A YXgYVc`bc`j`d`]j Ub`Y`a YX`kfYhc`fUn`]]Wc`=G8 B!i dcfUWb]y`Y[UXY`UfG! Dk]b
 Ud`] _UW]g`_ja`XY`ca`]bhY`][YbhY[Uca fYy`UfB5 DkE`&`rXY. :n`Uj Uc`g`_UXbcg]h
]nj YXVY`dfctc`_c`UfD`7 GkE`DfcZ`fa UgdYW]Z`_UW]U

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

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**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**

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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 the interactions between ISDN User Part (ISUP) version 3 and Intelligent Network Application Part (INAP) in the scope of IN Capability Set 1 (CS1), 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) proforma specification".

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1 Scope

The present document contains the validation (conformance) test specification for the interaction between ISUP v3 and INAP CS1 defined in EN 301 070-1 [1]. The present document applies only to exchanges having implemented the ISUP v3 protocol specification in the call control function (CCF) and the INAP CS1 in the service switching function (SSF) of the exchange. It is applicable for validation testing of all types of exchanges as defined in the ISUP v3 protocol specification. The present document does not deal with compatibility testing.

The main text part of the present document presents the protocol implementation conformance statements (PICS) for the interaction between ISUP v3 and INAP CS1 defined in compliance with the relevant requirements and in accordance with the guidance given in ISO/IEC 9646-7 [5]. 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 interaction between ISUP v3 and INAP CS1 [1], is required to complete a copy of the PICS proforma provided in the present document.

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.
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- [1] ETSI EN 301 070-1 (V1.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 interactions with the Intelligent Network Application Part (INAP); Part 1: Protocol specification [ITU-T Recommendation Q.1600 (1997), modified]".
 - [2] ETSI EN 300 356-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 modified]".
 - [3] ISO/IEC 9646-1 (1997): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
 - [4] ISO/IEC 9646-3 (1992): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
 - [5] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
 - [6] ITU-T Recommendation Q.1218 (1995): "Interface Recommendation for intelligent network CS-1".
 - [7] ITU-T Recommendation Q.784.1 (1996): "ISUP basic call test specification: Validation and compatibility for ISUP'92 and Q.767 protocols".
 - [8] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in ISDN User Part (ISUP) reference specification EN 301 070-1 [1] and EN 300 356-1 [2];
- terms defined in ISO/IEC 9646-1 [3], ISO/IEC 9646-3 [4] and in ISO/IEC 9646-7 [5].

In particular, the following terms 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 [3], 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 [3], subclause 3.3.5).

Abstract Test Suite (ATS): test suite composed of abstract test cases (see ISO/IEC 9646-1 [3], subclause 3.3.6).

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 [3], subclause 3.3.43).

ISDN number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [8].

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 [3], subclause 3.3.54).

PICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes the PICS.

PIXIT proforma: document, in the form of a questionnaire, which when completed for the IUT becomes the PIXIT.

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 [3], 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 [3], subclauses 3.3.39 and 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 [3], subclauses 3.3.41 and 3.3.81).

System Under Test (SUT): real open system in which the IUT resides (see ISO/IEC 9646-1 [3], subclause 3.3.103).

3.2 Abbreviations

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

ASP	Abstract Service Primitive
A-SSP	Assisting Signalling Switching Point
ATM	Abstract Test Method
ATS	Abstract Test Suite
CCF	Call Control Function
CD	Call Deflection
CS1	IN Capability Set No 1
ICS	Implementation Conformance Statement
INAP	Intelligent Network Application Protocol
ISDN	Integrated Services Digital Network
I-SSP	Initiating Signalling Switching Point
ISUP	ISDN User Part
IUT	Implementation Under Test
MOT	Means Of Testing
MTC	Main Test Component
MTP	Message Transfer Part
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SP	Signalling Point
SSF	Service Switching Function
SUT	System Under Test
TP	Test Purpose (context dependent)
TSS and TP	Test Suite Structure and Test Purposes
TSS	Test Suite Structure
TTCN	Tree and Tabular Combined Notation

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

The following abbreviations apply for ISUP parameters and parameter values.

AdSg	Address Signals
CgPN	Calling Party Number
GenNot	Generic Notification
TMR	Transmission Medium Requirement
USI	User Service Indicator

4 Conformance to the PICS proforma specification

A PICS proforma that conforms to this PICS proforma specification shall be technically equivalent to the document.

Annex A in the present document, and shall preserve the numbering and ordering of the items.

A PICS that conforms to this PICS proforma specification shall:

- describe an implementation which is claimed to conform to ISDN User Part (ISUP) v3 reference specification EN 301 070-1 [1] and EN 300 356-1 [2];
- be a conforming PICS proforma which has been completed in accordance with the instructions for completion given in clause A.1;
- include the information necessary to uniquely identify both the supplier and the implementation.