



SLOVENSKI STANDARD PSIST I-ETS 300 315:1996

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Digitalno omrežje z integriranimi storitvami (ISDN) - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - Izjava o skladnosti izvedbe protokola (PICS) - Proformna specifikacija protokola signalizacijske omrežne plasti za krmiljenje vodovnega osnovnega klica (primarni dostop, uporabnik)

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for signalling network layer protocol for circuit-mode basic call control (primary rate access, user)

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ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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**Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1)
Protocol Implementation Conformance Statement (PICS)
proforma specification for signalling network layer protocol
for circuit-mode basic call control (primary rate access, user)**

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Foreword

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

An ETSI standard may be given I-ETS status either because it is regarded as a provisional solution ahead of a more advanced standard, or because it is immature and requires a "trial period". The life of an I-ETS is limited to three years after which it can be converted into an ETS, have its life extended for a further two years, be replaced by a new version or be withdrawn.

This I-ETS forms part of a set of I-ETSs completing the documentation of ETS 300 102-1 (ISDN signalling network layer protocol) as specified in ISO/IEC 9646-1 (e.g. conformance testing) as follows:

- I-ETS 300 314: "Protocol Implementation Conformance Statement (PICS) proforma specification (basic access, user)";
- I-ETS 300 315: "PICS proforma specification (primary rate access, user)";**
- I-ETS 300 316: "PICS proforma specification (basic access, network)";
- I-ETS 300 317: "PICS proforma specification (primary rate access, network)";
- I-ETS 300 318: "Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification (basic access, user)";
- I-ETS 300 319: "PIXIT proforma specification (primary rate access, user)";
- I-ETS 300 322: "Abstract test suite (user)".

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Introduction

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).

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1 Scope

This Interim European Telecommunication Standard (I-ETS) provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN network layer protocol (circuit-mode, primary rate access, user) as specified in ETS 300 102-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-2 [3].

Both the packet interworking (clause 6 of ETS 300 102-1 [1]) and the User-to-User Signalling (UUS) procedures (clause 7 of ETS 300 102-1 [1]) are excluded from the present PICS proforma.

2 Normative references

This I-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 I-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 (1990): "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [2] ISO/IEC 9646-1 (1990): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts" (see also CCITT Recommendation X.290 (1991)).
- [3] ISO/IEC 9646-2 (1990): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification" (see also CCITT Recommendation X.291 (1991)).

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3 Definitions

For the purposes of this I-ETS, the following definitions apply:
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Network: the equipment existing at the network side of the user-network interface.

Protocol Implementation Conformance Statement (PICS): a statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol (see ISO/IEC 9646-1 [2]).

PICS proforma: a document, in the form of a questionnaire, which when completed for an OSI implementation or system becomes the PICS (see ISO/IEC 9646-1 [2]).

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 [2]).

User: the equipment existing at the user side of the user-network interface.

4 Abbreviations

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

Absent	Not relevant to this proforma
AND	Boolean "and"
CS	prefix for index numbers for the Call States group
IER	prefix for index numbers for the Received Information Elements group
IET	prefix for index numbers for the Transmitted Information Elements group
IS	prefix for index numbers for the Information element Structure group
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
M	Mandatory requirements (these are to be observed in all cases)
MC	prefix for index numbers for the Major Capabilities group
MR	prefix for index numbers for the Received Messages group
MT	prefix for index numbers for the Transmitted Messages group
N/A	Not supported, not applicable or the conditions for status are not met
N/A 1	Not Applicable in this direction of transmission
N/A 2	Not Applicable at the implementation of this interface
N/A 3	Not Applicable to ETSI networks
NOT	Boolean "not"
O	Option (may be selected to suit the implementation, provided that any requirements applicable to the option are observed)
O.n	Options, but support required for either at least one or only one of the options in the group labelled with the same numeral "n"
OR	Boolean "or"
OSI	Open Systems Interconnection
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SC	prefix for index numbers for Subsidiary Capabilities group
SCS	System Conformance Statement
SUT	System Under Test
TM	prefix for index numbers for the Timers group
UUS	User-to-User Signalling
[] Yes [] No	Tick "Yes" if item is supported, tick "No" if item is not supported

5 Conformance

The supplier of a protocol implementation which is claimed to conform to ETS 300 102-1 [1] is required to complete a copy of the PICS proforma provided in this I-ETS and is required to provide the information necessary to identify both the supplier and the implementation.

6 PICS proforma

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

6.1 Identification of the implementation

6.1.1 Implementation Under Test (IUT) identification

IUT name:

.....
.....

IUT version:

.....

6.1.2 System Under Test (SUT) identification

SUT name:

.....
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Hardware configuration:

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Operating system:

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6.1.3 Product supplier

Name:

.....

Address:

.....
.....
.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

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.....
.....

6.1.4 Client

Name:

.....

Address:

.....
.....
.....

Telephone number:

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Facsimile number:

.....

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Additional information:

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6.1.5 PICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

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6.2 PICS/System Conformance Statement (SCS)

Provide the relationship of the PICS with the SCS for the system:

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6.3 Identification of the protocol

This PICS proforma applies to the following standard:

ETS 300 102-1 (1990): "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

6.4 Global statement of conformance



The implementation described in this PICS meets all the mandatory requirements of the referenced standard.

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Yes

No

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming.

6.5 Information for conformance testing

6.5.1 Major capabilities

Unless otherwise indicated all references in the tables are to subclauses in ETS 300 102-1 [1].

Table 1: Major capabilities

Item	Major capability Does the implementation...	Conditions for status	Status	Reference	Support
MC 1	support outgoing calls?		O.1	5.1	[]Yes []No
MC 1.1	support procedures of en-bloc sending?	MC 1 NOT MC 1	O.2 N/A	5.1.1, 5.1.5.1	[]Yes []No
MC 1.2	support procedures of overlap sending?	MC 1 NOT MC 1	O.2 N/A	5.1.3, 5.1.5.2	[]Yes []No
MC 1.3	send notification of interworking in the Progress indicator information element of an outgoing SETUP message if the implementation is the point at which a call enters an ISDN environment from a non-ISDN environment?	MC 1 NOT MC 1	M N/A	5.1.6	[]Yes []No
MC 1.4	support transit network selection?	MC 1 NOT MC 1	O N/A	5.1.10, annex C	[]Yes []No
MC 1.5	attach to the B-channel and stop appropriate timers upon receipt of an appropriate call control and progress indicator?	MC 1 NOT MC 1	O N/A	5.1.2, 5.1.3, 5.1.7, 5.4	[]Yes []No
MC 1.6	interpret notification of interworking sent from the network on outgoing calls?	MC 1 NOT MC 1	O N/A	5.1.6	[]Yes []No
MC 1.7	generate local tones and local alerting indications?	MC 1 NOT MC 1	O N/A	5.1.2, 5.1.7	[]Yes []No
MC 2	support incoming calls?		O.1	5.2	[]Yes []No
MC 2.1	support procedures of en-bloc receiving?	MC 2 NOT MC 2	M N/A	5.2.1, 5.2.5.1	[]Yes []No
MC 2.2	support procedures of overlap receiving?	MC 2 NOT MC 2	O N/A	5.2.1, 5.2.4	[]Yes []No
MC 2.3	send notification of interworking on incoming calls if the implementation is the point at which a call leaves an ISDN environment for a non-ISDN environment?	MC 2 NOT MC 2	M N/A	5.2.6	[]Yes []No

(continued)

Table 1 (continued): Major capabilities

Item	Major capability Does the implementation...	Conditions for status	Status	Reference	Support
MC 2.4	accept the SETUP message on the point-to-point data link?	MC 2 NOT MC 2	M N/A	5.2.1, 5.2.3.1	[]Yes []No
MC 2.5	accept the SETUP message on the broadcast data link?		N/A 2	5.2.1, 5.2.3.2	
MC 2.6	send notification of interworking at the destination interface to the calling user if the implementation is the point at which a call leaves an ISDN environment for a non-ISDN environment?	MC 2 NOT MC 2	M N/A	5.2.6	[]Yes []No
MC 2.7	support compatibility checking if a coincident S and T reference point exists?	MC 2 NOT MC 2	M N/A	5.2.2, annex B	[]Yes []No
MC 3	support user-initiated call clearing?		M	5.3.3	[]Yes []No
MC 4.1	wait for the network to send a RELEASE message on the receipt of a DISCONNECT message with Progress indicator information element #8?		O.3	5.3.4.1	[]Yes []No
MC 4.2	respond with a RELEASE message on the receipt of a DISCONNECT message with Progress indicator information element #8?		O.3	5.3.4.1	[]Yes []No
MC 4.3	support a manual configuration option between MC 4.1 and MC 4.2?	MC 4.1 AND MC 4.2 NOT MC 4.1 OR NOT MC 4.2	M N/A	5.3.4.1	[]Yes []No
MC 4.4	support call clearing initiated by the network with tones and announcements not provided?		M	5.3.4.2	[]Yes []No
MC 5	support restart procedure?		M	5.5	[]Yes []No
MC 6	support call rearrangement procedures?		N/A 3	5.6	

(continued)