



SLOVENSKI STANDARD SIST ETS 300 796-2:1998

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ü]fc_cdUgcj bc`X][]HJbc`ca fYy`Y`n`]bhY[f]fUbj]a]`g]cf]hj Ua]`f6 !=G8 BŁ!`Dfcltc_c`
X][]HJbY`bUfc b]ý_Y`g][bU]nUWY`Y`ýH`&f8 GG&Ł!`; YbYf] b]Z b_WY`g_]`dfcltc_c`!
>YXfb]j]X]_j]!`&`XY.`:nUj Uc`g_`UXbcgh]`nj YXVY`dfcltc_c`UfD=7 GL!`DfcZ`fa U
gdYWZ_`UWY`

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Generic functional protocol; Core aspects; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Generic functional protocol;
Core aspects;
Part 2: Protocol Implementation Conformance Statement (PICS)
proforma specification**

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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 2 of a multi-part standard covering the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. two (DSS2) core aspects of the generic functional protocol for the support of supplementary services as described below:

Part 1: "Protocol specification [ITU-T Recommendation Q.2932.1, modified]";

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".

NOTE: The final structure of the parts containing the test specifications is currently under study.

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 second part of ETS 300 796 is applicable to the stage three of the generic functional protocol core aspects for the support of supplementary services for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided by European public telecommunications operators at the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [9]) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see CCITT Recommendation I.130 [8]).

This ETS provides the Protocol Implementation Conformance Statement (PICS) proforma for the B-ISDN DSS2 generic functional protocol core aspects for the support of supplementary services as specified in ETS 300 796-1 [5] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [7].

The supplier of a protocol implementation which is claimed to conform to ETS 300 796-1 [5] is required to complete a copy of the PICS proforma provided in annex A of this ETS and is required to provide the information necessary to identify both the supplier and the implementation.

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 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [2] ETS 300 443-2: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ETS 300 662-2 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Multiple Subscriber Number (MSN) supplementary service; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [4] ETS 300 667-2 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Subaddressing (SUB) supplementary service; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [5] ETS 300 796-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Generic functional protocol; Core aspects; Part 1: Protocol specification [ITU-T Recommendation Q.2932.1, modified]".
- [6] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [7] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

- [8] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [9] ITU-T Recommendation I.413 (1993): "B-ISDN user-network interfaces".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 796-1 [5]:

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 [6]).

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 [6]).

static conformance review: A review of the extent to which the static conformance requirements are met by the IUT, accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s) (see ISO/IEC 9646-1 [6]).

3.2 Abbreviations

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

AND	Boolean "and"
B-ISDN	Broadband ISDN
DSS2	Digital Subscriber Signalling System No. two
IER	Information Elements Received
IET	Information Elements Transmitted
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
M	Mandatory requirement (to be observed in all cases)
MC	Major Capabilities
MR	Messages Received
MT	Messages Transmitted
N/A	not applicable, not supported or the conditions for status are not met
No	not supported
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
R	Role
ROSE	Remote Operations Service Element
SC	Subsidiary Capabilities
SCS	System Conformance Statement
SUT	System Under Test
TM	Prefix for index numbers for the timers group
Yes	supported

4 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 conforms to ETS 300 796-1 [5];
- 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.

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Annex A (normative): PICS proforma for ETS 300 796-1

Notwithstanding the provisions of the copyright clause related to the text of this ETS, ETSI grants that users of this ETS 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 Guidance for completing the PICS proforma

A.1.1 Purpose and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ETS 300 796-1 [5] may provide information in a standardized manner.

The PICS proforma is subdivided into subclauses for the following categories of information:

- A.1: guidance for completing the ICS proforma;
- A.2: identification of the implementation;
- A.3: identification of the protocol to which this PICS proforma applies;
- A.4: explanation of the PICS proforma tables;
- A.5: global statement of conformance;
- A.6: questions to determine roles;
- A.7: questions for major capabilities;
- A.8: questions for subsidiary capabilities;
- A.9: questions for protocol data units;
- A.10: questions for protocol data unit parameters;
- A.11: questions for the facility information element structure;
- A.12: questions for timers.

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A.1.2 Abbreviations and conventions

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 [7];

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Item column

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma. Items are not always numbered sequentially.

Item description column

The item description contains a brief summary of the static requirement for which a support answer is required.

Conditions for status column

The conditions for status column contains a specification, if appropriate, of the predicate upon which a condition status is based.

Status column

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

I	Irrelevant or out-of-scope - this capability is outside the scope of the ETS to which this PICS proforma applies and is not subject to conformance testing in this context;
M	Mandatory - the capability is required to be supported;
N/A	Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required;