



SLOVENSKI STANDARD SIST EN 301 145-2:2000

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8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]`glcf]hj Ua]`f!G8 Bk!`8 U`f]bg_Uglcf]Hj .`XU`f]bg_c
i_fYdUb`Y`!`Dfch_c`X][]HJbY`bUfc b]y_Y`g][bU]nUW`Y`yH`r`%fB GG`k!`&`r`XY .`n`Uj U`c
g_`UXbcgh]`nj YXVY`dfch_c`U`fD`7 Gk!`Dfc`Z`fa U`gdYW`Z`_UW`Y`

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Teleaction service; 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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European Standard (Telecommunications series)

**Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1) protocol;
Teleaction service;
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification**

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Contents

Intellectual Property Rights	5
Foreword	5
1 Scope	6
2 References	6
3 Definitions and abbreviations	7
3.1 Definitions	7
3.2 Abbreviations	7
4 Conformance	8
Annex A (normative): PICS proforma	9
A.1 Instructions for completing the PICS proforma	9
A.1.1 Identification of the implementation	9
A.1.2 Global statement of conformance	9
A.1.3 Explanation of PICS proforma subclauses	9
A.1.4 Symbols, abbreviations and terms	10
A.2 Identification of the implementation	10
A.2.1 Implementation Under Test (IUT) identification	10
A.2.2 System Under Test (SUT) identification	10
A.2.3 Product supplier	11
A.2.4 Client	11
A.2.5 PICS contact person	12
A.3 PICS/System Conformance Statement (SCS)	12
A.4 Identification of the protocol	12
A.5 Global statement of conformance	13
A.6 Roles	13
A.7 EUT	14
A.7.1 Major capabilities	14
A.7.2 Subsidiary capabilities	14
A.7.3 Protocol data units	15
A.7.3.1 Messages Received (MR)	15
A.7.3.2 Messages transmitted (MT)	15
A.7.4 Protocol data unit parameters	15
A.7.4.1 Information Elements Received (IER)	15
A.7.4.2 Information Elements Transmitted (IET)	16
A.7.5 Protocol data unit parameters coding	16
A.7.6 Timers	17
A.7.7 Call states	17
A.8 SPT	18
A.8.1 Major capabilities	18
A.8.2 Subsidiary capabilities	18
A.8.3 Protocol Data Units (PDU)	19
A.8.3.1 MR by the SPT	19
A.8.3.2 MT by the SPT	19
A.8.4 Protocol data unit parameters	20
A.8.4.1 IER	20
A.8.4.2 IET	20
A.8.5 PDU parameters coding	21
A.8.6 Timers	22

A.8.7	Call states.....	22
A.9	TMF.....	22
A.9.1	Major capabilities.....	22
A.9.2	Subsidiary capabilities.....	23
A.9.3	Protocol Data Units.....	23
A.9.3.1	MR by the TMF.....	23
A.9.3.2	MT by the TMF.....	24
A.9.4	Protocol Data Unit parameters.....	24
A.9.4.1	IER.....	24
A.9.4.2	IET.....	25
A.9.5	Protocol Data Unit parameters coding.....	25
A.9.6	Timers.....	26
A.9.7	Call states.....	26
Annex B (normative):	Requirements list.....	27
B.1	User.....	27
B.1.1	Requirements on items used in the basic call data link layer PICS.....	27
B.1.1.1	Major capabilities.....	27
B.1.1.2	Address field variables.....	27
B.2	Network.....	28
B.2.1	Requirements on items used in the basic call data link layer PICS.....	28
B.2.1.1	Major capabilities.....	28
B.2.1.2	Address field variables.....	28
History.....		29

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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) teleaction bearer service, as described below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification".

In accordance with CCITT Recommendation I.130 [4], the following three level structure is used to describe the bearer services as provided by European public telecommunications operators under the pan-European ISDN:

- Stage 1: is an overall service description, from the user's standpoint;
- Stage 2: identifies the functional capabilities and information flows needed to support the service described in stage 1; and
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

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:	12 March 1999
Date of latest announcement of this EN (doa):	30 June 1999
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 1999
Date of withdrawal of any conflicting National Standard (dow):	31 December 1999

1 Scope

This second part of EN 301 145 is applicable to the stage three of the Teleaction bearer service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [5]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [4]).

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 teleaction bearer service protocol as specified in EN 301 145-1 [1] 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 EN 301 145-1 [1] 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 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] EN 301 145-1 (V1.1): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Teleaction bearer service; Part 1: Protocol specification".
- [2] ETS 300 402-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 1: General aspects [ITU-T Recommendation Q.920 (1993), modified]".
- [3] ETS 300 402-2: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".
- [4] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [5] CCITT Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [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".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions apply, in addition to those given in EN 301 145-1 [1].

Protocol Implementation Conformance Statement (PICS): 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: 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: 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 the present document, the following abbreviations apply:

AND	Boolean "and"
C	Conditional requirement (to be observed if the relevant conditions apply)
CRF	Connection Related Function
DLCI	Data Link Connection Identifier
DSS1	Digital Subscriber Signalling System No. one
EUT	Equipment Under Test
FH	Frame Handler
IER	Information Elements Received
IET	Information Elements Transmitted
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
LAPD	Link Access Procedure on the D-channel
M	Mandatory requirement (to be observed in all cases)
MC	Major Capabilities
MR	Message Received
MT	Message Transmitted
N/A	Not applicable, not supported or the conditions for status are not met
No	not supported
NOT	Boolean "not"
NT2	Network Termination 2
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
P	Parameters
PDU	Protocol Data Unit
PH	Packet Handler
PICS	Protocol Implementation Conformance Statement
PTN	Private Telecommunications Network
R	Roles

RL	Requirements List
SC	Subsidiary Capabilities
SCS	System Conformance Statement
SPT	Service Provider Terminal
SUT	System Under Test
TA	Terminal Adapter
TE1	Terminal Equipment type 1
TMF	Teleaction Management Function
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 claims to conform to EN 301 145-1 [1];
- b) be a conforming ICS 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

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 Implementation Under Test (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 [6] 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.

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A.1.2 Global statement of conformance

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.

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 three parts (for EUT, SPT and TMF) with the following subclauses, as required:

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

The EUT clause shall only be completed for EUT implementations (including private network implementations), the SPT clause shall only be completed for SPT implementations (including private network implementations) while the TMF clause shall only be completed for TMF implementations (including private 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.).

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 [7].

The reference column contained in the tables gives reference to the appropriate part(s) of EN 301 145-1 [1] 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 301 145-1 [1] 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 [7], are used for the status column:

M	mandatory;
O	optional;
N/A	not applicable;
O.<integer>	for mutually exclusive or selectable options from a set.

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

- Y for supported/implemented;
- N for not supported/not implemented.

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A.2 Identification of the implementation

A.2.1 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

A.2.2 System Under Test (SUT) identification

SUT name:

.....

.....

Hardware configuration:

.....

.....

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