SLOVENSKI STANDARD
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Digitalno omrežje z integriranimi storitvami (ISDN) – Signalizacija št. 7 – Obratovalni, vzdrževalni in administrativni del (OMAP) – 2. del: Izjava o skladnosti izvedbe protokola (PICS) – Proforma specifikacija

Integrated Services Digital Network (ISDN); Signalling System No.7; Operations, Maintenance and Administration Part (OMAP); Part 2: Protocol Implementation Conformance Statment (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);
Signalling System No.7;
Operations, Maintenance and Administration Part (OMAP);
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 deliverable covering the Integrated Services Digital Network (ISDN); Signalling System No.7; Operations, Maintenance and Administration Part (OMAP), as identified below:

Part 1:   "Protocol specification";

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

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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

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).

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the MTP Routeing Verification Test protocol as specified in EN 301 007-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-2 [3].

The present document adds to the MTP Routeing Verification Test protocol contained in EN 301 007-1 [1] Operations, Maintenance and Administration Part (OMAP) by defining explicitly the implementation flexibility allowed by the specification of that protocol. Thus it contributes to the definition of the management of international ITU Signalling System No. 7 networks that has been adapted for the support of, for example, the pan-European Cellular Digital Radio System and the Integrated Services Digital Network.

The PICS proforma defines explicitly the implementation flexibility allowed by the protocol specification. It details in a tabular form:

a) the implementation options, i.e. the functions additional to those which are mandatory to implement; and

b) the legitimate range of variation of the global parameters controlling the implementation of the functions, as specified in the protocol specification.

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 301 007-1 (V1.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; Operations, Maintenance and Administration Part (OMAP); Part 1: Protocol specification".

[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 (1992)).

[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 (1992)).

[4] ITU-T Recommendation Q.753 (1997): "Signalling System No. 7 management functions MRVT, SRVT and CVT and definition of the OMASE-user".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

excessive length route: MTP route of a length that equals the threshold of the maximum allowed number of Signalling Points crossed (including the initiator of the MTP Routeing Verification Test) before any response to the initiator is sent, the threshold being determined by the initiator of the MTP Routeing Verification Test and enclosed in the test message.

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 [2]).

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 [2]).

Static Conformance Review: 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]).

3.2 Symbols

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

S.$<i>$	Supplementary Information number $<i>$
X.$<i>$	Exceptional Information number $<i>$
Yes:_No:_X:_	Tick "Yes" if item is supported, tick "No" if item is not supported, and insert additional information at "X" where necessary (see also annex B, clause B.3)
Yes:_No:_X:_	Value(s):_Tick "Yes" if item is supported, tick "No" if item is not supported, insert additional information at "X" where necessary (see also annex B, clause B.3), and insert value(s) where appropriate

3.3 Abbreviations

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

ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
MRVA	MTP Routeing Verification Acknowledgement message
MRVR	MTP Routeing Verification Result message
MRVT	MTP Routeing Verification Test function or message
MTP	Message Transfer Part
N/A	Not Applicable
OMAP	Operations, Maintenance and Administration Part
OSI	Open Systems Interconnection
PC	Prefix for the index number of the Protocol Capabilities group
PD	Prefix for the index number of the Protocol Data Units group
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PP	Prefix for the index number of the Protocol Parameter group
SCS	System Conformance Statement
SP	Signaling Point
STP	Signaling Transfer Point
SUT	System Under Test

4   Conformance

The supplier of a MRVT protocol implementation which is claimed to conform to the MRVT protocol specification provided in EN 301 007-1 [1] is required to complete a copy of the PICS proforma provided in the present document and is required to provide the information necessary to 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   Identification of the implementation

A.1.1   Implementation Under Test (IUT) identification

IUT name:

....

....

IUT version:

....

A.1.2   System Under Test (SUT) identification

SUT name:

....

Hardware configuration:

....

....

....

Operating System:

....

....

A.1.3   Product supplier

Name:

....

Address:

....

....

....

Telephone number:

....

Facsimile number:

....

Additional information:

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....

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A.1.4 Client

Name:

....

Address:

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....

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Telephone number:

....

Facsimile number:

....

Additional information:

....

....

....

A.1.5 PICS contact person

Name:

....

Telephone number:

....

Facsimile number:

....