



# SLOVENSKI STANDARD SIST ETS 300 008-2:1998

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Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; 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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Message Transfer Part (MTP) to support  
international interconnection;  
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 Protocol and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is based on contributions by the CEC WAN CTS4-SS7 (Commission of the European Community Wide Area Networks Conformance Testing Service For Common Channel Signalling CCITT No.7) project group.

This ETS is part 2 of a multi-part standard covering the Signalling System No.7 Message Transfer Part (MTP) to support international interconnection as described below:

Part 1: "Protocol specification [ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q.708 (1993), modified]";

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

Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

Transposition dates	
Date of adoption:	5 September 1997
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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 telecommunication specification. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

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## 1 Scope

This second part of ETS 300 008 provides the Protocol Implementation Conformance Statement (PICS) proforma for the Message Transfer Part (MTP) defined in ETS 300 008-1 [1] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4] and ETS 300 406 [2].

## 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 300 008-1 (1996): "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q.708 (1993), modified]".
- [2] ETS 300 406 (1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [3] ISO/IEC 9646-1 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-7 (1995): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

## 3 Definitions and abbreviations

### 3.1 Definitions

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

- terms defined in ETS 300 008-1 [1];
- terms defined in ISO/IEC 9646-1 [3] and in ISO/IEC 9646-7 [4].

In particular, the following terms defined in ISO/IEC 9646-1 [3] apply:

**Implementation Conformance Statement (ICS):** A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

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

**Protocol ICS (PICS):** An ICS for an implementation or system claimed to conform to a given protocol specification.

### 3.2 Abbreviations

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

ICS	Implementation Conformance Statement
IUT	Implementation Under Test
MTP	Message Transfer Part
PICS	Protocol Implementation Conformance Statement
SCS	System Conformance Statement
SUT	System Under Test

## 4 Conformance to this PICS proforma specification

If it claims to conform to this ETS, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

A PICS which conforms to this ETS shall be a conforming PICS proforma completed in accordance with the guidance for completion given in clause A.1.

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## Annex A (normative): PICS proforma for ETS 300 008-1

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 Purposes 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 300 008-1 [1] may provide information about the implementation in a standardized manner.

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

- guidance for completing the PICS proforma;
- identification of the implementation;
- identification of the ETS;
- global statement of conformance;
- capabilities.

#### 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 [4].

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

##### Status column

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

m	mandatory - the capability is required to be supported
o	optional - the capability may be supported or not
n/a	not applicable - in the given context, it is impossible to use the capability
x	prohibited (excluded) - there is a requirement not to use this capability in the given context
i	out of scope ("i" stands for irrelevant) - this capability is outside the scope of the given base standard and hence irrelevant and not subject to conformance testing. No answer is requested from the supplier
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table
ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table

**Reference column**

The reference column makes reference to ETS 300 008-1 [1], except where explicitly stated otherwise.

**Support column**

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [4], are used for the support column:

Y or y	supported by the implementation
N or n	not supported by the implementation
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status)

If this PICS proforma is completed in order to describe a multiple-profile support in a system, it is necessary to be able to answer that a capability is supported for one profile and not supported for another. In that case, the supplier shall enter the unique reference to a conditional expression, preceded by "?" (e.g. ?3). This expression shall be given in the space for comments provided at the bottom of the table. It uses predicates defined in the SCS, each of which refers to a single profile and which takes the value TRUE if and only if that profile is to be used.

EXAMPLE:                   ?3: IF prof1 THEN Y ELSE N

It is also possible to provide a comment to an answer in the space provided at the bottom of the table.

NOTE: As stated in ISO/IEC 9646-7 [4], support for a received PDU requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported. Unless specifically covered by a table listing PDU parameters and giving details regarding their status, all parameters of a PDU are required to be fully supported on sending. Support of a PDU therefore implies full support of all required PDU parameters.

**Values allowed column**

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

- range of values:           <min value> .. <max value>  
example:   5 .. 20
- list of values:           <value1>, <value2>, ....., <valueN>  
example:   2 ,4 ,6 ,8 ,9  
example:   '1101'B, '1011'B, '1111'B  
example:   '0A'H, '34'H, '2F'H
- list of named values:   <name1>(<val1>), <name2>(<val2>), ....., <nameN>(<valN>)  
example:   reject(1), accept(2)
- length:                   size (<min size> .. <max size>)  
example:   size (1 .. 8)

**Values supported column**

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.