



# SLOVENSKI STANDARD

## SIST ETS 300 374-2:1997

01-november-1997

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**Intelligentno omrežje (IN) - Prvi nabor zmožnosti (CS1) inteligentnega omrežja - Jedrni uporabni (aplikacijski) del inteligentnega omrežja (INAP) - 2. del: Proformna specifikacija izjave o skladnosti izvedbe protokola (PICS) za funkcijo komutacije storitev (SSF), funkcijo posebnih virov (SRF) in funkcijo krmiljenja storitev (SCF)**

Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification for Service Switching Function (SSF), Specialized Resource Function (SRF) and Service Control Function (SCF)

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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 Capability Set 1 (CS1) core Intelligent Network Protocol (INAP) as described below:

Part 1: "Protocol specification";

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

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification";

Part 5: "Protocol specification for the SCF-SDF interface";

Part 6: "PICS proforma specification for the SCF-SDF interface".

NOTE: Further parts of this standard may be identified later.

Transposition dates	
Date of adoption of this ETS:	1 March 1996
Date of latest announcement of this ETS (doa):	31 May 1996
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## 1 Scope

This second part of ETS 300 374 provides the Implementation Conformance Statement (ICS) proforma for the core Intelligent Network Application Protocol (INAP) of Intelligent Network (IN) Capability Set 1 (CS1) defined in ETS 300 374-1 [1] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3].

## 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 300 374-1 (1994): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".
- [2] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [3] 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 this ETS, the following definitions apply:

- [SIST ETS 300 374-2:1997](#)  
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- terms defined in ETS 300 374-1 [1];
  - terms defined in ISO/IEC 9646-1 [2] and in ISO/IEC 9646-7 [3].

In particular, the following terms defined in ISO/IEC 9646-1 [2] 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:

AC	Application Context
ASE	Application Service Element
BCSM	Basic Call State Model
CS1	Capability Set 1
ICS	Implementation Conformance Statement
IN	Intelligent Network
INAP	Intelligent Network Application Protocol
IP	Intelligent Peripheral
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
SCF	Service Control Function
SCP	Service Control Point
SCS	System Conformance Statement
SRF	Specialized Resource Function
SSF	Service Switching Function
SSP	Service Switching Point
SUT	System Under Test

## 4 Conformance

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 instructions for completion given in clause A.1.

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**Annex A (normative): PICS proforma for core INAP CS1**

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 300 374-1 [1] may provide information about the implementation in a standardized manner.

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

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- PICS proforma tables;
  - global statement of conformance;
  - physical entities;
  - external interfaces;
  - application contexts;
  - operations;
  - arguments, results and errors;
  - timers;
  - range constants.

**A.1.2 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 [3].

**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 [3], 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, the capability cannot be used.
x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
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. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...)" ELSE ..." is used to avoid ambiguities.

### Reference column

Entries in the reference column refer to subclauses of ETS 300 374-1 [1], except where explicitly stated otherwise.

NOTE: A reference indicates only the location of the most essential information about an item. All additional requirements contained in ETS 300 374-1 [1] have also to be taken into account when making a statement about the conformance of that particular item.

### 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 [3], 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)

NOTE: As stated in ISO/IEC 9646-7 [3], support for a Protocol Data Unit (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.

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 cell provided at the bottom of the table. It uses predicates defined in the System Conformance Statement (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 further possible to provide comments to an answer at the bottom of each table.

### Values allowed column

The values allowed column contains the values or the ranges of values allowed.

### 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.

**References to items**

For each possible item answer (answer in the support column) within the PICS proforma exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table 5 of annex A.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

**A.1.3 Instructions for completing the PICS proforma**

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided using the notation described in subclause A.1.2.

Optional items in ETS 300 374-1 [1] are dealt with as follows:

- mandatory protocol items need to be supported by both operation invokers and responders;
- optional protocol items are optional for operation invokers, but mandatory for operation responders;
- network specific options are optional for both operation invokers and responders.

Table A.1 gives an overview of this rule tabular form.

**Table A.1**

Protocol item	Invoke request	Invoke indication
Mandatory	m	m
Optional	o	m
Network option	o	o

As a general rule, the ASN.1 "CHOICE" construct is indicated in the parameter tables:

- as an option (o.x) in the "Invoke request" column;
- as mandatory in the "Invoke indication" column.

When a (ASN.1) parameter which contains a "SIZE" field is not explicitly constrained in a table, then the complete size field has to be supported.

## A.2 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.

### A.2.1 Date of the statement

.....

### A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....  
.....

IUT version:

.....

### A.2.3 System Under Test (SUT) identification

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SUT name:

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Hardware configuration:

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

Operating system:

.....

### A.2.4 Product supplier

Name:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

**A.2.5 Client**

Name:

.....

Address:

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Telephone number:

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Facsimile number:

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E-mail address:

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Additional information:

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