



**SLOVENSKI STANDARD**  
**SIST EN 301 174-2 V1.1.3:2005**  
**01-januar-2005**

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 X][ ]HJbY`bUfc b]y\_Y`g][ bU]nUWY`Y`yH`r`&fB GG&ŁĚ`GdYWŹ\_ UWY`U`g][ bU]nUWY`Y`nU  
 glcf]hj ]`V`c\_cj bY[ UdcgfYXcj Ub`UĚ`&`rXY.`n`Uj U`c`g`UXbcgh`]nj YXVY`dfcłc\_c`U  
 fD`7 GŁĚ`DfcŁ`fa UgdYWŹ\_ UWY`U

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Signalling specification for frame relay 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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# EN 301 174-2 V1.1.3 (1999-03)

*European Standard (Telecommunications series)*

**Broadband Integrated Services Digital Network (B-ISDN);  
Digital Subscriber Signalling System No. two (DSS2) protocol;  
Signalling specification for frame relay service;  
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 Protocols and Switching (SPS).

The present document is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network Frame Relaying bearer service 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 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: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

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

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

## 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 an ICS.

## 1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Broadband Integrated Services Digital Network (B-ISDN) Digital Subscriber Signalling System No. two (DSS2) protocol for the Frame Relaying bearer service as specified in EN 301 174-1 [3] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [6] and ETS 300 406 [4].

The supplier of a protocol implementation which is claimed to conform to EN 301 174-1 [3] 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 the supplier and the implementation.

Further ENs (or further parts of the present document) provide the method of testing and detailed application specific requirements to determine conformance to the present document.

The provision of this service requires the support of the protocol for the basic point-to-point call/bearer connections as defined in the EN 300 443-1 [1].

## 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, subsequent revisions do apply.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- <https://standards.iteh.ai/catalog/standards/sist/cdeee98b-flfb-4b9b-aedc-sist/en/301-174-2-v1.1.3-2005>
- [1] EN 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] EN 301 174-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Signalling specification for frame relay service; Part 1: Protocol specification [ITU-T Recommendation Q.2933 (1996), modified]".
- [4] ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [5] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [6] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".



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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document the following terms and definitions apply:

- terms defined in EN 301 174-1 [3];
- terms defined in ISO/IEC 9646-1 [5] and in ISO/IEC 9646-7 [6].

In particular, the following terms defined in ISO/IEC 9646-1 [5] apply:

**Implementation Conformance Statement (ICS):** 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:** document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

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

### 3.2 Abbreviations

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

ICS	Implementation Conformance Statement
IUT	Implementation Under Test
OSI	Open Systems Interconnection
SCS	System Conformance Statement
SUT	System Under Test
PICS	Protocol Implementation Conformance Statement

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## 4 Conformance to this PICS proforma specification

If it claims to conform to the present document 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.

An PICS which conforms to the present document 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 EN 301 174-1

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.

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### 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 EN 301 174-1 [3] may provide information about the implementation in a standardized manner.

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

- instructions for completing the PICS proforma;
- identification of the implementation;
- identification of the protocol;
- global statement of conformance;
- roles;
- user role:
  - major capabilities;
  - PDUs;
  - PDU parameters;
  - timers;
  - call states;
- network role:
  - major capabilities;
  - PDUs;
  - PDU parameters;
  - timers;
  - call states.

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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 [6].

### 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 [6], 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.
- 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.

NOTE 1: In the case where items of the group do not always belong to the same table, all o.i shall be defined in the last subclause of the PICS proforma, and the text "which is defined immediately following the table" should be replaced by "which is defined in the last subclause of this annex".

- 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.
- c: o:** conditional optional - the capability may be supported or not if the hierarchically preceding capability is supported.
- c: m:** conditional mandatory - the capability is required to be supported if the hierarchically preceding capability is supported.

### Reference column

The reference column makes reference to EN 301 174-1 [3], 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 [6], 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).