



**SLOVENSKI STANDARD**  
**SIST EN 301 486-2 V1.1.1:2005**  
**01-januar-2005**

ü]fc\_cdUgcj bc`X][ ]HJbc`ca fYy`Y`n`]bhY[ f]fUbj]a ]`g]fcf]hj Ua ]`f6 !-G8 BŁĚ`Dfctc\_c`  
 X][ ]HJbY`bUfc b]y\_Y`g][ bU]nUWY`Y`y`h`&`f8 GG&ŁĚ`? UFU\_hYf]gh\_Y`nj YnY`Ě`GdfYa Ya VU  
 dfca YfbY[ UXYg\_f]d]hcf`U5 HA `g`dc[ U`Ub`Ya `n`Ug]b]\_ca `nj YnY`Ě`&`XY. :`nUj Uc  
 g\_`UXbcgh]`nj YXVY`dfctc\_c`U`fD`7 GŁĚ`DfcZ`fa UgdYWZ`\_UWYU

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM traffic descriptor modification with negotiation by the connection owner; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

**(standards.iteh.ai)**

<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>

**Ta slovenski standard je istoveten z: EN 301 486-2 Version 1.1.1**

**ICS:**

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
--------	---	--

**SIST EN 301 486-2 V1.1.1:2005**                      **en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 301 486-2 V1.1.1:2005

<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>

# ETSI EN 301 486-2 V1.1.1 (2001-09)

---

*European Standard (Telecommunications series)*

**Broadband Integrated Services Digital Network (B-ISDN);  
Digital Subscriber Signalling System No. two (DSS2) protocol;  
Connection characteristics;  
ATM traffic descriptor modification with negotiation  
by the connection owner;  
Part 2: Protocol Implementation Conformance  
Statement (PICS) proforma specification**

---

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 301 486-2 V1.1.1:2005](https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>



---

**Reference**

DEN/SPAN-130202-2

---

**Keywords**ATM, B-ISDN, broadband, DSS2, layer 3, PICS,  
UNI**ETSI**650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**SIST EN 301 486-2 V1.1.1:2005<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>

---

**Important notice**

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at <http://www.etsi.org/tb/status/>

If you find errors in the present document, send your comment to:

[editor@etsi.fr](mailto:editor@etsi.fr)

---

**Copyright Notification**

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2001.  
All rights reserved.

# Contents

Intellectual Property Rights .....	5
Foreword.....	5
1 Scope.....	6
2 References.....	6
3 Definitions, symbols and abbreviations .....	7
3.1 Definitions .....	7
3.2 Symbols.....	7
3.3 Abbreviations.....	7
4 Conformance .....	8
<b>Annex A (normative): PICS proforma for EN 301 486-1.....</b>	<b>9</b>
A.1 Guidance for completing the PICS proforma.....	9
A.1.1 Purpose and structure .....	9
A.1.2 Abbreviations and conventions .....	9
A.1.3 Instructions for completing the PICS proforma .....	10
A.1.4 The PICS proforma tables.....	10
A.1.4.1 Correspondence to physical interface.....	10
A.1.4.2 Structure of the tables.....	11
A.1.4.3 Support for received PDU parameters.....	11
A.2 Identification of the implementation.....	11
A.2.1 Date of the statement .....	11
A.2.2 Implementation Under Test (IUT) identification .....	11
A.2.3 System Under Test (SUT) identification.....	12
A.2.4 Product supplier.....	12
A.2.5 Client.....	12
A.2.6 PICS contact person .....	13
A.3 Identification of the protocol to which this PICS proforma applies .....	13
A.4 Global statement of conformance.....	14
A.5 Roles .....	14
A.6 Major capabilities .....	14
A.7 User Role .....	15
A.7.1 Initiating User .....	15
A.7.1.1 Messages received .....	15
A.7.1.2 Messages transmitted .....	15
A.7.2 Addressed User .....	15
A.7.2.1 Messages received .....	15
A.7.2.2 Messages transmitted .....	16
A.8 Network Role .....	16
A.8.1 Terminating Entity .....	16
A.8.1.1 Originating Network Side.....	16
A.8.1.1.1 Messages received .....	16
A.8.1.1.2 Messages transmitted.....	16
A.8.1.2 Terminating Network Side .....	17
A.8.1.2.1 Messages received .....	17
A.8.1.2.2 Messages transmitted.....	17
A.9 Requesting entity message Parameters .....	17
A.9.1 Requesting entity message Parameters received .....	18
A.9.2 Requesting entity message Parameters transmitted .....	18

A.10 Responding entity message Parameters .....	19
A.10.1 Responding entity message Parameters received .....	19
A.10.2 Responding entity message Parameters transmitted .....	20
A.11 Timers .....	20
<b>Annex B (informative): Bibliography.....</b>	<b>21</b>
History .....	22

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 301 486-2 V1.1.1:2005](https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.org/ipr>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 2 of a multi-part deliverable covering the Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM traffic descriptor modification with negotiation by the connection owner, as identified below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.2963.3, modified]";
- 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".

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:	31 August 2001
Date of latest announcement of this EN (doa):	30 November 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2002
Date of withdrawal of any conflicting National Standard (dow):	31 May 2002

---

## 1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the ATM traffic descriptor modification with negotiation by the connection owner for the Broadband-Integrated Services Digital Network (B-ISDN). This is done by means of the Digital Subscriber Signalling System No. two (DSS2) protocol as specified in EN 301 486-1 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

The supplier of a protocol implementation which is claimed to conform to EN 301 486-1 [2] 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.

---

## 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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI 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] ETSI EN 301 486-1 (V1.1.3): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM traffic descriptor modification with negotiation by the connection owner; Part 1: Protocol specification [ITU-T Recommendation Q.2963.3, modified]".
- [3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [5] ETSI EN 301 003-2 (V1.1.3): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [6] ETSI EN 301 276-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Modification procedures for sustainable cell rate parameters; Part 1: Protocol specification [ITU-T Recommendation Q.2963.2 (1997), modified]".



## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 301 486-1 [2] and the following apply:

**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)

**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)

**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)

### 3.2 Symbols

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

C	Conditional requirement (to be observed if the relevant conditions apply)
M	Mandatory requirement (to be observed in all cases)
N/A	Not applicable, not supported or the conditions for status are not meet
No	not supported
O	Option (may be selected to suit the implementation, provided that any requirements applicable to the option are observed)
Yes	supported

### 3.3 Abbreviations

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

ATD	ATM Traffic Descriptor
ATM	Asynchronous Transfer Mode
B-ISDN	Broadband Integrated Services Digital Network
DSS2	Digital Subscriber Signalling System No. two
IER	Parameters Received
IET	Parameters Transmitted
IUT	Implementation Under Test
MC	Major Capabilities
MR	Messages Received
OSI	Open Systems Interconnection
PICS	Protocol Implementation Conformance Statement
R	Role
SUT	System Under Test

---

## 4 Conformance

A PICS proforma that 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 proforma that conforms to this PICS proforma specification shall:

- describe an implementation which conforms to EN 301 486-1 [2];
- be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clause A.1; and
- include the information necessary to uniquely identify both the supplier and the implementation.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 301 486-2 V1.1.1:2005](https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>

---

## Annex A (normative): PICS proforma for EN 301 486-1

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.

---

### 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 EN 301 486-1 may provide information in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- guidance for completing the various parts of the PICS proforma;
  - identification of the implementation;
  - identification of the protocol to which this PICS proforma applies;
  - global statement of conformance;
  - questions to determine roles;
  - questions for the user role; and
  - questions for the network role.
- iTech STANDARD PREVIEW  
(standards.iteh.ai)
- SIST EN 301 486-2 V1.1.1:2005  
<https://standards.iteh.ai/catalog/standards/sist/e115c1d3-a65f-4579-9e91-917e702c4aa2/sist-en-301-486-2-v1-1-1-2005>

#### 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.

##### Item column

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma. Items are not always numbered sequentially.

##### Item description column

The item description contains a brief summary of the static requirement for which a support answer is required.

##### Conditions for status column

The conditions for status column contains a specification, if appropriate, of the predicate upon which a conditional status is based.