



**SLOVENSKI STANDARD**  
**SIST EN 301 068-2 V1.2.1:2003**  
**01-november-2003**

ü]fc\_cdUgcj bc`X][ ]HJbc`ca fYy`Y`n`]bhY[ f]fUbj]a ]`g]cf]h] Ua ]`f6 !=G8 BŁ!`Dfchc\_c`  
 X][ ]HJbY`bUfc b]y`Y`g][ bU]nUWY`Y`yH`&fB GG&Ł`E`Df]``f bY`UFU`Hf]gH`Y`!  
 DfYbcgbU`na c`ybcgh]b`]bX]\_UWY`U`dfca YhbY[ U`dUfUa YfU5 HA`!`&`rXY.``nUj U`c  
 g`UXbcgh]`nj YXVY`dfchc\_c`U`fD`Z`GŁ!`DfcZ`fa UgdYW]Z`\_UWY`

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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**Ta slovenski standard je istoveten z: EN 301 068-2 Version 1.2.1**

**ICS:**

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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**SIST EN 301 068-2 V1.2.1:2003 en**

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# ETSI EN 301 068-2 V1.2.1 (2002-04)

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*European Standard (Telecommunications series)*

**Broadband Integrated Services Digital Network (B-ISDN);  
Digital Subscriber Signalling System No. two (DSS2) protocol;  
Connection characteristics;  
ATM transfer capability and traffic parameter indication;  
Part 2: Protocol Implementation Conformance  
Statement (PICS) proforma specification**

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## Reference

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REN/SPAN-130203-2

## Keywords

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ATM, B-ISDN, DSS2, ISDN, layer 3, PICS, UNI

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Sous-Préfecture de Grasse (06) N° 7803/88

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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 Digital Subscriber Signalling System No. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network (B-ISDN) ATM transfer capability and traffic parameter indication, as identified below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.2961.1 (1995), Q.2961.2 (1997), Q.2961.3 (1997), Q.2961.4 (1997), Q.2961.6 (1998), 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 protocol. Such a statement is called a Protocol Implementation Conformance Statement (PICS). The Protocol specification, part 1 of the present document, extends the basic call control procedures defined in EN 300 443-1 [1] by supporting the connection characteristics (ATM transfer capability and traffic parameters) indication.

<b>National transposition dates</b>	
Date of adoption of this EN:	26 April 2002
Date of latest announcement of this EN (doa):	31 July 2002
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2003
Date of withdrawal of any conflicting National Standard (dow):	31 January 2003

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## 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 with connection characteristics indication defined in EN 301 068-1 [3] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [5] and ETS 300 406 [6].

The supplier of a protocol implementation which is claimed to conform to EN 301 068-1 [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 capability requires the support of the protocol for the basic point-to-point call/bearer connections as defined in EN 300 443-1 [1] or of the protocol for the point-to-multipoint call/bearer connections as defined in EN 300 771-1 [2].

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## 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.

- <https://standards.iteh.ai/catalog/standards/sist/d8605f62-f336-4ff6-b0e4-b7aed4232537/sist-en-301-068-2-v1-2-1-2003>
- [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 300 771-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for point-to-multipoint call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2971 (1995), modified]".
- [3] ETSI EN 301 068-1 (V1.3.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 1: Protocol specification [ITU-T Recommendations Q.2961.1 (1995), Q.2961.2 (1997), Q.2961.3 (1997), Q.2961.4 (1997), modified]".
- [4] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [5] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [6] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [7] ITU-T Recommendation I.371: "Traffic control and congestion control in B-ISDN".
- [8] ITU-T Recommendation Q.2961.6: "Digital subscriber signalling system No. 2 - Additional traffic parameters: Additional signalling procedures for the support of the SBR2 and SBR3 ATM transfer capabilities".

- [9] ITU-T Recommendation Q.2931: "Digital Subscriber Signalling System No. 2 - User-Network Interface (UNI) layer 3 specification for basic call/connection control".
- [10] Void.
- [11] ITU-T Recommendation Q.2961.1: "Digital subscriber signalling system No. 2 - Additional traffic parameters: Additional signalling capabilities to support traffic parameters for the tagging option and the sustainable cell rate parameter set".
- [12] ITU-T Recommendation Q.2961.2: "Digital subscriber signalling system No. 2 - Additional traffic parameters: Support of ATM transfer capability in the broadband bearer capability information element".
- [13] ITU-T Recommendation Q.2961.3: "Digital subscriber signalling system No. 2 - Additional traffic parameters: Signalling capabilities to support traffic parameters for the available bit rate (ABR) ATM transfer capability".
- [14] ITU-T Recommendation Q.2961.4: "Digital subscriber signalling system No. 2 - Additional traffic parameters: Signalling capabilities to support traffic parameters for the ATM Block Transfer (ABT) ATM transfer capability".

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 301-068-1 [3], ISO/IEC 9646-1 [4] and ISO/IEC 9646-7 [5] and the following 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

NOTE: 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:

ABR	Available Bit Rate ATC
ABT	ATM Block Transfer ATC
ATC	ATM Transfer Capability
ATM	Asynchronous Transfer Mode
B-ISDN	Broadband ISDN
DBR	Deterministic Bit Rate ATC
DSS2	Digital Subscriber Signalling System No. two
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
SBR	Statistical Bit Rate ATC
SUT	System Under Test
VP	Virtual Path



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## 4 Conformance

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.

A 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 301 068-1

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 301 068-1 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 PICS proforma;
- identification of the implementation;
- identification of the protocol;
- global statement of conformance;
- roles;
- user role:
  - major capabilities; [SIST EN 301 068-2 V1.2.1:2003](https://standards.iteh.ai/catalog/standards/sist/d8605f62-f336-4ff6-b0e4-b7aed42325f7/sist-en-301-068-2-v1-2-1-2003)
  - 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.

### 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, 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 a unique group of related optional items and the logic of their selection which is defined immediately following the table.

NOTE: 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 clause of the PICS proforma, and the text "which is defined immediately following the table" should be replaced by "which is defined in the last clause 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 a 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 301 068-1, except where explicitly stated otherwise. Whenever reference is made directly to ITU-T Recommendation Q.2961.x, it means as endorsed by EN 301 068-1.

### 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, 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).