
Digitalno omrežje z integriranimi storitvami (ISDN) in širokopasovno digitalno omrežje z integriranimi storitvami (B-ISDN) ň Protokol generil' nega naslavljanja in transporta (GAT) ň 2. del: Izjava o skladnosti izvedbe protokola (PICS) ň Proforma specifikacija

Integrated Services Digital Network (ISDN) and Broadband Integrated Services Digital Network (B-ISDN); Generic Addressing and Transport (GAT) protocol; 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 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. one (DSS1) and the Signalling System No.7 (SS7) ISDN User Part (ISUP) protocol implementation conformance statement for the Integrated Services Digital Network (ISDN), the Digital Subscriber Signalling System No. two (DSS2) and Signalling System No.7 (SS7) B-ISDN User Part (B-ISUP) protocol implementation conformance statement for the Broadband Integrated Services Digital Network (B-ISDN) to support the Generic Addressing and Transport protocol (GAT), as described below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.860 (2000), modified]";
- 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".

National transposition dates

Date of adoption of this EN:	21 September 2001
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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 given protocol. Such a statement is called an Implementation Conformance Statement (ICS). An ICS stating what capabilities and options have been implemented for a particular protocol is called a protocol ICS. This is commonly abbreviated to "PICS".

EN 301 813-1 [1] is derived from ITU-T Recommendation Q.860 [4]. However, no PICS proforma exists for this recommendation. Therefore, ETSI has created a PICS proforma that is specific to the European environment.

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Generic Addressing and Transport (GAT) protocol for Integrated Services Digital Network (ISDN), Broadband Integrated Services Digital Network (B-ISDN) and Signalling System No. 7 defined in EN 301 813-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3].

The supplier of a protocol implementation that is claimed to conform to EN 301 813-1 [1] 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 both the supplier and the implementation.

Unless otherwise noted, all clauses referred to in the present document refer to clauses in ITU-T Recommendation Q.860 [4].

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 301 813-1 (V1.1.1): "Integrated Services Digital Network (ISDN) and Broadband Integrated Services Digital Network (B-ISDN); Generic Addressing and Transport (GAT) protocol; Part 1: Protocol specification [ITU-T Recommendation Q.860 (2000), modified]".
- [2] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [3] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [4] ITU-T Recommendation Q.860 (2000): "Integrated Services Digital Network (ISDN) and Broadband Integrated Services Digital Network (B-ISDN) Generic Addressing and Transport (GAT) Protocol".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 301 813-1 [1], ISO/IEC 9646-1 [2], ISO/IEC 9646-7 [3] 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. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, and information object ICS

Protocol Implementation Conformance Statement (PICS): ICS for an implementation or system claimed to conform to a given protocol specification

PICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes a PICS

3.2 Abbreviations

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

APDU	Application Protocol Data Unit
AS-ASE	Application Service Application Service Element
ASN.1	Abstract Syntax Notation No. one
B-ISDN	Broadband Integrated Services Digital Network
DSS1	Digital Subscriber Signalling System No. one
DSS2	Digital Subscriber Signalling System No. two
GAT	Generic Addressing and Transport
GAT-Control	Generic Addressing and Transport Control
GAT-PDU	Generic Addressing and Transport Protocol Data Unit
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol ICS
PINX	Private Integrated Network Exchange
ROSE	Remote Operations Service Element
SCS	System Conformance Statement
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 that conforms to this PICS proforma specification shall:

- a) describe an implementation which conforms to EN 301 813-1 [1];
- b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clause A.1;
- c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative): PICS proforma for EN 301 813-1

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 ICS 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 301 813-1 may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- A.1: guidance for completing the various parts of the PICS proforma;
- A.2: identification of the implementation;
- A.3: identification of the protocol to which this PICS proforma applies;
- A.4: explanation of the PICS proforma tables;
- A.5: global statement of conformance;
- A.6: questions to determine roles;
- A.7: questions for the signalling entity role.

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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. |