

8 [[ ]HJbc`ca fYy`Y`n`]bhY[ f]fUb]a ]'glcf]hj Ua ]'fG8 BŁ!'; YbYf] b]'dfcfc\_c`hd\_cj b]W  
nUdcXdcfc`Xcdc`b]b]`'glcf]hj ]'Dfcfc\_c`X[[ ]HJbY`bUfc b]y`Yg[[ bU]nUWY`yh`%  
fB GG%Ł!`&`XY. :`nUj Uc`g`UXbcgh]`nj YXVY`dfcfc\_c`UfD=7 GŁ!`DfcŁfa bU  
gdYWZ`UWU

Integrated Services Digital Network (ISDN); Generic keypad protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; 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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Generic keypad protocol for the support of  
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Digital Subscriber Signalling System No. one (DSS1) protocol;  
Part 2: Protocol Implementation Conformance Statement (PICS)  
proforma specification**

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## Contents

Foreword .....	5
1 Scope .....	7
2 Normative references .....	7
3 Definitions .....	8
4 Abbreviations .....	8
5 Conformance .....	9
Annex A (normative): PICS proforma .....	10
A.1 Instructions for completing the PICS proforma .....	10
A.1.1 Identification of the implementation .....	10
A.1.2 Global statement of conformance .....	10
A.1.3 Explanation of PICS proforma subclauses .....	10
A.1.4 Symbols, abbreviations and terms .....	11
A.2 Identification of the implementation .....	11
A.2.1 Implementation Under Test (IUT) identification .....	11
A.2.2 System Under Test (SUT) identification .....	11
A.2.3 Product supplier .....	12
A.2.4 Client .....	12
A.2.5 PICS contact person .....	13
A.3 PICS/System Conformance Statement (SCS) .....	13
A.4 Identification of the protocol .....	13
A.5 Global statement of conformance .....	14
A.6 Roles .....	14
A.7 User .....	15
A.7.1 Major capabilities .....	15
A.7.2 Subsidiary capabilities .....	15
A.7.3 Protocol data units .....	15
A.7.4 Protocol data unit parameters .....	16
A.7.5 Timers .....	16
A.7.6 Call states .....	16
A.8 Network .....	16
A.8.1 Major capabilities .....	16
A.8.2 Subsidiary capabilities .....	17
A.8.3 Protocol data units .....	17
A.8.4 Protocol data unit parameters .....	17
A.8.5 Timers .....	17
A.8.6 Call states .....	17

Annex B (normative):	Requirements list .....	18
B.1	User .....	18
B.1.1	Requirements on items used in the basic call PICS .....	18
B.2	Network.....	19
B.2.1	Requirements on items used in the basic call PICS .....	19
History .....		20

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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 Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) generic keypad protocol for the support of supplementary services, as described below:

Part 1: "Protocol specification";

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

NOTE 1: The first part, ETS 300 122-1 (1992), containing the protocol specification, was initially published as ETS 300 122 (1992) and has identical contents.

NOTE 2: Further parts covering conformance testing may be identified later.

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).

Transposition dates	
Date of adoption of this ETS:	16 August 1996
Date of latest announcement of this ETS (doa):	30 November 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 May 1997
Date of withdrawal of any conflicting National Standard (dow):	31 May 1997

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## 1 Scope

This second part of ETS 300 122 is applicable to the stage three of the generic keypad protocol for the support of supplementary services for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [10]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [9]).

This ETS provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 generic keypad protocol for the support of supplementary services as specified in ETS 300 122-1 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [8].

The supplier of a protocol implementation which is claimed to conform to ETS 300 122-1 [2] is required to complete a copy of the PICS proforma provided in annex A of this ETS and is required to provide the information necessary to identify both the supplier and the implementation.

## 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 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [2] ETS 300 122-1 (1992): "Integrated Services Digital Network (ISDN); Generic keypad protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [3] I-ETS 300 314: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for the network layer signalling protocol for circuit-mode basic call control (basic access, user)".
- [4] I-ETS 300 315: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for the network layer signalling protocol for circuit-mode basic call control (primary rate access, user)".
- [5] I-ETS 300 316: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for the network layer signalling protocol for circuit-mode basic call control (basic access, network)".
- [6] I-ETS 300 317: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for the network layer signalling protocol for circuit-mode basic call control (primary rate access, network)".
- [7] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [8] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

- [9] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [10] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [11] CCITT Recommendation Q.932 (1988): "Generic procedures for the control of ISDN supplementary services".

### 3 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 122-1 [2]:

**Protocol Implementation Conformance Statement (PICS):** A 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 [7]).

**PICS proforma:** A 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 [7]).

**static conformance review:** A 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 [7]).

### 4 Abbreviations

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For the purposes of this ETS, the following abbreviations apply:

AND	Boolean "and"
C	Conditional requirement (to be observed if the relevant conditions apply)
DSS1	Digital Subscriber Signalling System No. one
IER	Information Elements Received
IET	Information Elements Transmitted
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
M	Mandatory requirement (to be observed in all cases)
MC	Major Capabilities
MR	Messages Received
MT	Messages Transmitted
N/A	Not applicable, not supported or the conditions for status are not met
No	not supported
NOT	Boolean "not"
O	Option (may be selected to suit the implementation, provided that any requirements applicable to the option are observed)
O.n	Options, but support required for either at least one or only one of the options in the group labelled with the same numeral "n"
OR	Boolean "or"
OSI	Open Systems Interconnection
PICS	Protocol Implementation Conformance Statement
R	Role
RL	Requirements List
SC	Subsidiary Capabilities
SCS	System Conformance Statement
SUT	System Under Test
Yes	supported

## 5 Conformance

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

- a) describe an implementation which claims to conform to ETS 300 122-1 [2];
- b) be a conforming ICS 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.

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