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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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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

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.

Annex A (normative): PICS proforma

A.1 Instructions for completing the PICS proforma

A.1.1 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

The SCS as defined in ISO/IEC 9646-1 [7] is a document supplied by the client or product supplier that summarizes which OSI International Standards, ITU-T (CCITT) Recommendations, ETSs or other standards are implemented and to which conformance is claimed. The PICS/SCS subclause should describe the relationship of the PICS to the SCS.

A.1.2 Global statement of conformance

If the answer to the statement in this subclause is "Yes", all subsequent subclauses should be completed to facilitate selection of test cases for optional functions.

If the answer to the statement in this subclause is "No", all subsequent subclauses should be completed, and all non-supported mandatory capabilities should be identified and explained. Explanations may be entered in the comments field at the bottom of each table or on attached sheets of paper.

A.1.3 Explanation of PICS proforma subclauses

The PICS proforma contains a Roles clause and thereafter is presented in two parts (for user and network) with the following subclauses, as required:

- major capabilities;
- subsidiary capabilities;
- protocol data unit support;
- protocol data unit parameters;
- timers;
- call states.

The User clause shall only be completed for user implementations (including private network implementations) while the Network clause shall only be completed for network implementations. The Roles subclause shall be completed for all implementations.

The relationship between this PICS proforma and other related PICS proforma (e.g. the basic call PICS proforma) is expressed in the Requirements List (RL) contained in annex B. This provides the additional restrictions placed on the related proforma (different conditions, different status, etc.).

A.1.4 Symbols, abbreviations and terms

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 [8].

The reference column contained in the tables gives reference to the appropriate part(s) of ETS 300 122-1 [2] describing the particular item. Note, however, that a reference merely indicates the place where the core of a description of an item can be found. Any additional information contained in ETS 300 122-1 [2] has to be taken into account when making a statement about the conformance of that particular item.

The following common notations, defined in ISO/IEC 9646-7 [8], are used for the status column:

M	mandatory
O	optional
N/A	not applicable
O.<integer>	for mutually exclusive or selectable options from a set

The following common notations, defined in ISO/IEC 9646-7 [8], are used for the support column:

Y for supported/implemented
N for not supported/not implemented

A.2 Identification of the implementation

A.2.1 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

A.2.2 System Under Test (SUT) identification

SUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Operating system:

.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

A.2.5 PICS contact person

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

A.3 PICS/System Conformance Statement (SCS)

Provide the relationship of the PICS with the SCS for the system:

.....

.....

.....

.....

A.4 Identification of the protocol

This PICS proforma applies to the following standard:

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".

NOTE: ETS 300 122-1 (1992) was initially published as ETS 300 122 (1992).

A.5 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard?

[ ] **Yes**

[ ] **No**

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached sheets of paper.

In the tabulations which follow, all references are to ETS 300 122-1 [2] unless another numbered reference is explicitly indicated.

A.6 Roles

Table A.1: Type of implementation

Item	Major role: Does the implementation ...	Conditions for status	Status	Reference	Support
	Type of implementation				
R 1	not used				
R 2.1	support user requirements?		O.1		[ ]Yes [ ]No
R 2.2	support network requirements?		O.1		[ ]Yes [ ]No
R 3	not used (note)				
R 4.1	support user requirements at the interface of the remote user?	R 2.1 NOT R 2.1	O.2 N/A	[11] 4.6	[ ]Yes [ ]No [ ]N/A
R 4.2	support user requirements at the interface of the requesting user?	R 2.1 NOT R 2.1	O.2 N/A	[11] 4.5	[ ]Yes [ ]No [ ]N/A
R 4.3	support network requirements at the interface of the remote user?	R 2.2 NOT R 2.2	O.3 N/A	[11] 4.6	[ ]Yes [ ]No [ ]N/A
R 4.4	support network requirements at the interface of the requesting user?	R 2.2 NOT R 2.2	O.3 N/A	[11] 4.5	[ ]Yes [ ]No [ ]N/A
O.1 O.2 O.3	Support of one and only one of these options is required. Support of at least one of these options is required. Support of at least one of these options is required.				
NOTE:	ETS 300 122-1 [2] provides identical requirements for the T reference point and for the coincident S and T reference point. Therefore, this PICS proforma makes no distinction between the different reference points.				
Comments:					

A.7 User

The tables provided in this clause need only to be completed for user implementations, where item R 2.1 in table A.1 is supported.

A.7.1 Major capabilities

Table A.2: Major capabilities - user

Item	Major capability: Does the implementation support ...	Conditions for status	Status	Reference	Support
MC 1	multiple generic protocols at the requesting user's interface (i.e. for the supplementary service invocation)?	R 4.2 NOT R 4.2	O N/A	5.1, 5.3	[ ]Yes [ ]No [ ]N/A
MC 2	multiple generic protocols at the remote user interface (i.e. for the supplementary service indication or notification)?	R 4.1 NOT R 4.1	O N/A	5.1, 5.3	[ ]Yes [ ]No [ ]N/A
MC 3	the sending of Keypad information for invoking a supplementary service?	R 4.2 NOT R 4.2	M N/A	6, [11] 4.1, 4.5.1	[ ]Yes [ ]No [ ]N/A
MC 4	the handling of Keypad information received from the network for the purpose of triggering an automatic reaction of the terminal equipment? (note)	R 4.2 NOT R 4.2	O N/A	[11] 4.1	[ ]Yes [ ]No [ ]N/A
MC 5	the handling of information received from the network to give indications to the requesting user?	R 4.2 NOT R 4.2	M N/A	6, [11] 4.1, 4.5.2.1, 4.5.2.2	[ ]Yes [ ]No [ ]N/A
MC 6	the handling of information received from the network for the purpose of providing notifications to the remote user?	R 4.1 NOT R 4.1	O N/A	[11] 4.6	[ ]Yes [ ]No [ ]N/A
NOTE:	User implementations not supporting this option shall follow the error recovery procedures defined in ETS 300 102-1 [1], subclause 5.8.4, on receipt of the Keypad facility information element.				
Comments:					

A.7.2 Subsidiary capabilities

Table A.3: Subsidiary capabilities - user

Item	Subsidiary capability: Does the implementation support ...	Conditions for status	Status	Reference	Support
SC 1.1	en-bloc sending of supplementary service information?	R 4.2 NOT R 4.2	O.4 N/A	[11] 4.5.1.1	[ ]Yes [ ]No [ ]N/A
SC 1.2	overlap sending of supplementary service information?	R 4.2 NOT R 4.2	O.4 N/A	[11] 4.5.1.2	[ ]Yes [ ]No [ ]N/A
SC 2	the use of a sending complete indication to indicate that supplementary service information is complete? (note)	R 4.2 NOT R 4.2	O N/A	6 [11] 4.5.1.1, [1] 5.1.3	[ ]Yes [ ]No [ ]N/A
O.4	Support of at least one of these options is required				
NOTE:	A sending complete indication is not a Sending complete information element.				
Comments:					

A.7.3 Protocol data units

No items requiring response.

A.7.4 Protocol data unit parameters

No items requiring response.

A.7.5 Timers

No items requiring response.

A.7.6 Call states

No items requiring response.

A.8 Network

The tables provided in this clause need only to be completed for network implementations, where item R 2.2 in table A.1 is supported.

A.8.1 Major capabilities

Table A.4: Major capabilities - network

Item	Major capability: Does the implementation ...	Conditions for status	Status	Reference	Support
MC 7	support multiple generic protocols per access at the requesting user's interface (i.e. for the supplementary service invocation)?	R 4.4 NOT R 4.4	O N/A	5.1, 5.3	[ ]Yes [ ]No [ ]N/A
MC 8	support multiple generic protocols per access at the remote user interface (i.e. for the supplementary service indication or notification)?	R 4.3 NOT R 4.3	O N/A	5.1, 5.3	[ ]Yes [ ]No [ ]N/A
MC 9	recognise the generic protocol option chosen by the requesting user on the basis of the received message type or information element type?	MC 7 NOT MC 7	M N/A	5.3	[ ]Yes [ ]No [ ]N/A
MC 10	apply a particular generic protocol at the remote user interface, depending on the supplementary service involved?	MC 8 NOT MC 8	O N/A	5.3	[ ]Yes [ ]No [ ]N/A
MC 11.1	support supplementary service requests during call establishment phase?	R 4.4 NOT R 4.4	O.5 N/A	[11] 4.1, 4.4.1, 4.5.2.3.1	[ ]Yes [ ]No [ ]N/A
MC 11.2	support supplementary service requests during active call phase?	R 4.4 NOT R 4.4	O.5 N/A	[11] 4.1, 4.4.1, 4.5.2.3.2	[ ]Yes [ ]No [ ]N/A
MC 11.3	support supplementary service requests during call clearing phase?	R 4.4 NOT R 4.4	O.5 N/A	[11] 4.1, 4.4.1, 4.5.2.3.2	[ ]Yes [ ]No [ ]N/A
MC 12	support service requests related to registration, cancellation, activation, deactivation or interrogation of a supplementary service? (note)	R 4.4 NOT R 4.4	O.5 N/A	6	[ ]Yes [ ]No [ ]N/A
MC 13	support the reception of Keypad information for invoking a supplementary service?	R 4.4 NOT R 4.4	M N/A	6, [11] 4.1, 4.5.1	[ ]Yes [ ]No [ ]N/A
MC 14	support the sending of Keypad information to the requesting user for the purpose of triggering an automatic reaction of the terminal equipment?	R 4.4 NOT R 4.4	O N/A	[11] 4.1	[ ]Yes [ ]No [ ]N/A
MC 15	support the sending of information to the requesting user for the purpose of providing indications?	R 4.4 NOT R 4.4	O N/A	6, [11] 4.1, 4.5.2.1, 4.5.2.2	[ ]Yes [ ]No [ ]N/A
MC 16	support the sending of information to the remote user for the purpose of providing notifications?	R 4.3 NOT R 4.3	O N/A	[11] 4.6	[ ]Yes [ ]No [ ]N/A
O.5	Support of at least one of these options is required.				
NOTE:	When invoked during call establishment, this procedure may be independent from a connection to a remote user. In that case, no called party number is applicable.				
Comments:					

A.8.2 Subsidiary capabilities

Table A.5: Subsidiary capabilities - network

Item	Subsidiary capability: Does the implementation support ...	Conditions for status	Status	Reference	Support
SC 3	the sending of a CALL PROCEEDING message to the requesting user?	MC 11.1 NOT MC 11.1	O N/A	[11] 4.5.2.1	[ ]Yes [ ]No [ ]N/A
SC 4	the multiple stage approach for provision of user information (i.e. prompting the user for more information)?	R 4.4 NOT R 4.4	O N/A	[11] 4.4.1, 4.5.2.2	[ ]Yes [ ]No [ ]N/A
SC 5.1	prompting of the user by means of messages?	SC 4 NOT SC 4	O.6 N/A	[11] 4.5.2.2	[ ]Yes [ ]No [ ]N/A
SC 5.2	prompting of the user by means of in-band tones and/or announcements?	SC 4 NOT SC 4	O.6 N/A	[11] 4.5.2.2	[ ]Yes [ ]No [ ]N/A
SC 6.1	sending of a PROGRESS message containing a Progress indicator information element in addition to an audible prompt?	SC 5.2 NOT SC 5.2	O N/A	[11] 4.5.2.2	[ ]Yes [ ]No [ ]N/A
SC 6.2	sending of an INFORMATION message containing a Display information element in addition to an audible prompt?	SC 5.2 NOT SC 5.2	O N/A	[11] 4.5.2.2	[ ]Yes [ ]No [ ]N/A
SC 7.1	procedures to determine that the supplementary service information is complete from analysis of the received information?	R 4.4 NOT R 4.4	O.7 N/A	[11] 4.5.1.1, [1] 5.1.3	[ ]Yes [ ]No [ ]N/A
SC 7.2	procedures to determine that the supplementary service information is complete from the presence of a sending complete indication? (note)	R 4.4 NOT R 4.4	O.7 N/A	[11] 4.5.1.1, [1] 5.1.3	[ ]Yes [ ]No [ ]N/A
O.6 O.7	Support of at least one of these options is required Support of at least one of these options is required				
NOTE:	A sending complete indication is not a Sending complete information element.				
Comments:					

A.8.3 Protocol data units

No items requiring response.

A.8.4 Protocol data unit parameters

No items requiring response.

A.8.5 Timers

No items requiring response.

A.8.6 Call states

No items requiring response.

Annex B (normative): Requirements list

This annex repeats in the form of a requirements list some items of the basic call PICS proforma required for support of ETS 300 122-1 [2]. No support column is provided as the answers are to be entered in the relevant base PICS proforma.

In the tables which follow in this annex, the status of the base PICS proforma is indicated as "C" (conditional) or "O" (optional). The "C" status is used where the base PICS proforma contains a number of interdependent items which need not be repeated in this ETS. "O" indicates that the item in the base PICS proforma is dependent on one or more other items, at least one of which has an optional status. The exact interdependency is fully specified in the base PICS proforma specification.

B.1 User

B.1.1 Requirements on items used in the basic call PICS

In the tabulations which follow in this subclause all item numbers are as contained in I-ETS 300 314 [3] and I-ETS 300 315 [4]. All references are to ETS 300 122-1 [2] unless otherwise stated.

Table B.1: Messages received - user

Item	Message: Does the implementation support ...	Status base	SS conditions for status	SS status	Reference
MR 8	the interpretation of INFORMATION?	C	MC 4 OR MC 5 OR MC 6 NOT (MC 4 OR MC 5 OR MC 6)	M N/A	[1] 3.1.8

Table B.2: INFORMATION PDU parameters received - user

Item	Information element: Does the implementation support ...	Status base	SS conditions for status	SS status	Reference
IER 15	the interpretation of Keypad facility?	O	MC 4 NOT MC 4	M N/A	[1] 4.5.17
IER 12	the interpretation of Display? (note)	O	MC 5 or MC 6 NOT (MC 5 or MC 6)	M N/A	[1] 4.5.15
NOTE:	The Display information element may also be carried by other messages. This should be specified in detail for the individual services using the generic keypad protocol.				

Table B.3: INFORMATION and/or SETUP PDU parameters transmitted - user

Item	Information element: Does the implementation support ...	Status base	SS conditions for status	SS status	Reference
IET 15	the inclusion of Keypad facility?	O	MC 3 AND SC 1.2 NOT (MC 3 AND SC 1.2)	M N/A	[1] 4.5.17

B.2 Network

B.2.1 Requirements on items used in the basic call PICS

In the tabulations which follow in this subclause all item numbers are as contained in I-ETS 300 316 [5] and I-ETS 300 317 [6]. All references are to ETS 300 122-1 [2] unless otherwise stated.

Table B.4: Messages transmitted - network

Item	Message: Does the implementation support ...	Status base	SS conditions for status	SS status	Reference
MT 8	the inclusion of INFORMATION?	C	MC 14 OR MC 15 OR MC 16 OR SC 6.2 NOT (MC 14 OR MC 15 OR MC 16 OR SC 6.2)	M N/A	[1] 3.1.8

Table B.5: INFORMATION PDU parameters transmitted - network

Item	Information element: Does the implementation support ...	Status base	SS conditions for status	SS status	Reference
IET 15	the inclusion of Keypad facility?	O	MC 14 NOT MC 14	M N/A	[1] 4.5.17
IET 12	the inclusion of Display? (note)	O	MC 15 OR MC 16 OR SC 6.2 NOT (MC 15 OR MC 16 OR SC 6.2)	M N/A	[1] 4.5.15
NOTE:	The Display information element may also be carried by other messages. This should be specified in detail for the individual services using the generic keypad protocol.				

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