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**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Connected Line Identification Restriction (COLR)
supplementary service;**
**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 Date of the statement	11
A.2.2 Implementation Under Test (IUT) identification	11
A.2.3 System Under Test (SUT) identification	11
A.2.4 Product supplier	12
A.2.5 Client.....	12
A.2.6 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.....	15
A.7.5 Timers	15
A.7.6 Call states	15
A.8 Network	16
A.8.1 Major capabilities	16
A.8.2 Subsidiary capabilities.....	16
A.8.3 Protocol data units	16
A.8.4 Protocol data unit parameters.....	16
A.8.5 Timers	16
A.8.6 Call states	16

Annex B (normative): Requirements list	17
B.1 User	17
B.1.1 Requirements on items used in the basic call PICS	17
B.1.2 Requirements on items used in the supplementary service interactions PICS.....	17
B.2 Network.....	17
B.2.1 Requirements on items used in the basic call PICS	17
B.2.2 Requirements on items used in the supplementary service interactions PICS.....	17
History	18

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. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network (B-ISDN) Connected Line Identification Restriction (COLR) supplementary service, as described below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.2951, clause 6 (1995), 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: "TSS&TP specification for the network";
- Part 6: "ATS and partial 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).

Transposition dates	
Date of adoption of this ETS:	6 September 1996
Date of latest announcement of this ETS (doa):	31 December 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 June 1997
Date of withdrawal of any conflicting National Standard (dow):	30 June 1997

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1 Scope

This second part of ETS 300 666 is applicable to the stage three of the Connected Line Identification Restriction (COLR) supplementary service for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided by European public telecommunications operators at the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [9]) by means of the Digital Subscriber Signalling System No. two (DSS2). Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see CCITT Recommendation I.130 [8]).

This ETS provides the Protocol Implementation Conformance Statement (PICS) proforma for the B-ISDN DSS2 COLR supplementary service protocol as specified in ETS 300 666-1 [3] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [7].

The supplier of a protocol implementation which is claimed to conform to ETS 300 666-1 [3] 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 300 443-1: "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] ETS 300 443-2: "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 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ETS 300 665-1 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Presentation (COLP) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 5 (1995), modified]".
- [4] ETS 300 666-1 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Restriction (COLR) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 6 (1995), modified]".
- [5] ETS 300 669-2: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2); Supplementary service interactions; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [6] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [7] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

- [8] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [9] ITU-T Recommendation I.413 (1993): "B-ISDN user-network interfaces".

3 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 666-1 [3]:

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 [6]).

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 [6]).

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 [6]).

4 Abbreviations

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

AND	Boolean "and"
B-ISDN	Broadband Integrated Services Digital Network
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
DSS2	Digital Subscriber Signalling System No. two
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
M	Mandatory requirement (to be observed in all cases)
MC	Major Capabilities
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
P	Parameters
PICS	Protocol Implementation Conformance Statement
R	Roles
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 300 666-1 [3];
- 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

Notwithstanding the provisions of the copyright clause related to the text of this ETS, ETSI grants that users of this ETS 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 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 [6] 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 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 [7].

The reference column contained in the tables gives reference to the appropriate part(s) of ETS 300 666-1 [3] describing the particular item. Note, however, that a reference merely indicates the place the core of a description of an item can be found. Any additional information contained in ETS 300 666-1 [3] 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 [7], 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 [7], 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 Date of the statement

A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....
.....

IUT version:

.....
.....

A.2.3 System Under Test (SUT) identification

SUT name:

.....
.....

Hardware configuration:

.....
.....

Operating system:

.....
.....

A.2.4 Product supplier

Name:

.....

Address:

.....
.....
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....
.....

A.2.5 Client

Name:

.....

Address:

.....
.....
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....
.....

A.2.6 PICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

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 300 666-1 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Restriction (COLR) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 6 (1995), modified]."

A.5 Global statement of conformance

Does the implementation described in this PICS meet 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 a comments field or on pages attached to the PICS. An explanation should be given of the nature of non-conformance.

In the tabulations which follow, all references are to ETS 300 666-1 [3] 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	6.9	[]Yes []No
R 2.2	support network requirements?		O.1	6.9	[]Yes []No
R 3	not used (note)				
R 4.1	support user requirements at the interface of the served user?	R 2.1 NOT R 2.1	M N/A	6.9.2	[]Yes []No []N/A
R 4.2	support user requirements at the interface of the calling user?		N/A		N/A
R 4.3	support network requirements at the interface of the served user?	R 2.2 NOT R 2.2	M N/A	6.9.3	[]Yes []No []N/A
R 4.4	support network requirements at the interface of the calling user?		N/A		N/A
O.1	Support of one and only one of these options is required.				
NOTE:	ETS 300 666-1 [3] provides identical requirements for the T_B reference point and for the coincident S_B and T_B 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 - connected user

Item	Major capability: Does the implementation...	Conditions for status	Status	Reference	Support
MC 1	Served user				
MC 1.1	support COLR on temporary mode (per-call) basis?		O	6.9.2	[]Yes []No
MC 2	Calling user				
Comments:					

A.7.2 Subsidiary capabilities

No items requiring response.

A.7.3 Protocol data units

No items requiring response.

A.7.4 Protocol data unit parameters

Table A.3: CONNECT PDU parameters and values sent by the served user

Item	CONNECT PDU parameters and values: Does the implementation support the inclusion...	Conditions for status	Status	Reference	Support
P 1	of Connected number information element?	MC 1.1 NOT MC 1.1	M N/A	[3] 5.8.1	[]Yes []No []N/A
P 1.1	of Presentation indicator?	P 1 NOT P 1	M N/A	[3] 5.8.1	[]Yes []No []N/A
P 1.1.1	of Presentation allowed?	P 1.1 NOT P 1.1	O.2 N/A	[3] 5.8.1	[]Yes []No []N/A
P 1.1.2	of Presentation restricted?	P 1.1 NOT P 1.1	O.2 N/A	[3] 5.8.1	[]Yes []No []N/A
O.2	Support of at least one of these options is required.				
NOTE:	These parameters are additional to those required for support of basic call (see ETS 300 443-1 [1]).				
Comments:					

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 3	Originating network side No requirements (note)				
MC 4	Destination network side				
MC 4.1	support the provision of COLR on a temporary mode (per-call) basis?		M	6.9.3.1	[]Yes []No
MC 4.2	support the provision of COLR on a temporary mode (per-call) basis, default value presentation restricted?		O.3	6.9.3.1	[]Yes []No
MC 4.3	support the provision of COLR on a temporary mode (per-call) basis, default value presentation not restricted?		O.3	6.9.3.1	[]Yes []No
MC 4.4	support the provision of COLR on a permanent mode basis?		O	6.9.3.1	[]Yes []No
O.3	Support of at least one of these options is required.				
NOTE:	No requirements for COLR, but there are relevant requirements for COLP (see ETS 300 665-2).				
Comments:					

A.8.2 Subsidiary capabilities

No items requiring response.

A.8.3 Protocol data units

No items requiring response.

A.8.4 Protocol data unit parameters

Table A.5: CONNECT PDU parameters received by the network at the interface of the served user

Item	CONNECT PDU parameters and values: Does the implementation support...	Conditions for status	Status	Reference	Support
P 2	the interpretation of Connected number information element?		M	[3] 5.8.1	[]Yes []No
NOTE:	These parameters are additional to those required for support of basic call (see ETS 300 443-1 [1]).				
Comments:					

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 and supplementary service interactions PICS proforma required for support of ETS 300 666-1 [3]. 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 document 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 ETS 300 443-2 [2]. All references are to ETS 300 666-1 [3] unless otherwise stated.

Table B.1: Major capabilities - user

Item	Major capability: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
MCu 2	incoming calls?	O	R 2.1 NOT R 2.1	M N/A	[1] 5.2

B.1.2 Requirements on items used in the supplementary service interactions PICS

In the tabulations which follow in this subclause all item numbers are as contained in ETS 300 669-2 [5]. All references are to ETS 300 666-1 [3] unless otherwise stated.

Table B.2: Major capabilities - user

Item	Major capability: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
MC 1.16	the COLR supplementary service interactions with other implemented supplementary services?	O	R 2.1 NOT R 2.1	M N/A	

B.2 Network

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

No additional restrictions on basic call.

B.2.2 Requirements on items used in the supplementary service interactions PICS

In the tabulations which follow in this subclause all item numbers are as contained in ETS 300 669-2 [5]. All references are to ETS 300 666-1 [3] unless otherwise stated.

Table B.3: Major capabilities - network

Item	Major capability: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
MC 2.16	the CLIP supplementary service interactions with other implemented supplementary services?	O	R 2.2 NOT R 2.2	M N/A	

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