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*European Standard (Telecommunications series)*

**Integrated Services Digital Network (ISDN);  
Call Waiting (CW) supplementary service;  
Digital Subscriber Signalling System No. one (DSS1) protocol;  
Part 2: Protocol Implementation Conformance  
Statement (PICS) proforma specification**

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*European Telecommunications Standards Institute*

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## Intellectual Property Rights

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Pursuant to the ETSI Interim 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 ETR 314 (or the updates on <http://www.etsi.fr/ipr>) which are, or may be, or may become, essential to the present document.

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document 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) Call Waiting (CW) supplementary service, as described below:

Part 1: "Protocol specification";

**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 Open Systems Interconnection (OSI) protocol. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

The present version updates the references to the basic call specifications.

<b>Proposed national transposition dates</b>	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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# 1 Scope

This second part of EN 300 058 is applicable to the stage three of the Call Waiting (CW) supplementary service 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 [11]) 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 [10]).

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 CW supplementary service protocol as specified in EN 300 058-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [9].

The supplier of a protocol implementation which is claimed to conform to EN 300 058-1 [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.

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# 2 Normative references

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- [1] EN 300 058-1 (V1.2): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [2] EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [3] EN 300 195-1: "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [4] EN 300 195-2: "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [5] EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1 Protocol specification".
- [6] EN 300 196-2: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [7] EN 300 403-3: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".

- [8] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [9] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [10] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [11] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

### 3 Definitions

For the purposes of the present document, the following definitions apply, in addition to those given in EN 300 058-1 [1]:

**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 [8]).

**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 [8]).

**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 [8]).

### 4 Symbols and abbreviations

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

AND	Boolean "and"
C	Conditional requirement (to be observed if the relevant conditions apply)
CW	Call Waiting
DSS1	Digital Subscriber Signalling System No. one
ISDN	Integrated Services Digital Network
IER	Information Elements Received
IET	Information Elements Transmitted
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
RL	Requirements List
SCS	System Conformance Statement
SS	Supplementary Service
SUT	System Under Test

TM	Timers
Yes	supported

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## 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 EN 300 058-1 [1];
- 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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## Annex A (normative): PICS proforma

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 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 [8] 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 [9].

The reference column contained in the tables gives reference to the appropriate part(s) of EN 300 058-1 [1] 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 EN 300 058-1 [1] 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 [9], 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 [9], 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:

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

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### A.4 Identification of the protocol

This PICS proforma applies to the following standard:

**EN 300 058-1 (V1.2):** "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

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### 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 pages.

In the tabulations which follow, all references are to EN 300 058-1 [1] unless another numbered reference is explicitly indicated.

## A.6 Roles

Table A.1: Roles

Item	Major role: Does the implementation...	Conditions for status	Status	Reference	Support
<b>Type of implementation</b>					
R 1	not used				
R 2.1	support user requirements?		O.1	9, 10	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 2.2	support network requirements?		O.1	9, 10	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 3.1	support requirements at the coincident S and T reference point?		O.2	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 3.2	support requirements for interworking with private ISDNs at the T reference point?		O.2	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 4.1	support user requirements at the interface of the served user?	R 2.1 NOT R 2.1	M N/A	9, 10	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
R 4.2	support user requirements at the interface of the remote 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	9, 10	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
R 4.4	support network requirements at the interface of the remote user?	R 2.2 NOT R 2.2	M N/A	9, 10	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
O.1	Support of one and only one of these options is required.				
O.2	Support of at least one of these options is required.				
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	the ability to request a specific channel in the CONNECT message?	R 3.1 NOT R 3.1	O N/A	9.6.1	[ ]Yes [ ]No [ ]N/A
MC 2	the use of the release procedure to free resources?	R 3.1 NOT R 3.1	O N/A	9.6.1	[ ]Yes [ ]No [ ]N/A
MC 3	the call hold supplementary service to free resources?	R 3.1 NOT R 3.1	O N/A	9.6.1	[ ]Yes [ ]No [ ]N/A
MC 4	the ability to reject the call?	R 3.1 NOT R 3.1	O N/A	9.6.2	[ ]Yes [ ]No [ ]N/A
MC 5	the provision of notifications (service provider is on a private ISDN)?	R 3.2 NOT R 3.2	M N/A	10	[ ]Yes [ ]No [ ]N/A
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: Notification indicator information element values sent by the user**

Item	Notification indicator information element values: Does the implementation support...	Conditions for status	Status	Reference	Support
P 1	Call is a waiting call?	MC 5 NOT MC 5	M N/A	7	[ ]Yes [ ]No [ ] N/A
NOTE: This table only contains parameter values of relevance to EN 300 058-1. Additional parameter values may be required for support of basic call (EN 300 403-1).					
Comments:					

## A.7.5 Timers

**Table A.4: Timers - user**

Item	Timer: Does the implementation support...	Conditions for status	Status	Reference	Support
TM 1	T-CW?	R 3.1 NOT R 3.1	O N/A	13	[ ]Yes [ ]No [ ]N/A
Comments:					

## 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.5: Major capabilities - network**

Item	Major capability: Does the implementation support...	Conditions for status	Status	Reference	Support
MC 6	call offering procedures?	R 3.1 NOT R 3.1	M N/A	9.4	[ ]Yes [ ]No [ ]N/A
MC 7	call confirmation procedures?	R 3.1 NOT R 3.1	M N/A	9.5	[ ]Yes [ ]No [ ]N/A
MC 8	call waiting acceptance procedures?	R 3.1 NOT R 3.1	M N/A	9.6	[ ]Yes [ ]No [ ]N/A
MC 9	the acceptance of notifications (served user is on a private ISDN)?	R 3.2 NOT R 3.2	M N/A	10	[ ]Yes [ ]No [ ]N/A
MC 10	provision of notifications?	R 3.2 NOT R 3.2	M O	10	[ ]Yes [ ]No
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.6: Notification indicator information element values received by the network**

Item	Notification indicator information element values: Does the implementation support...	Conditions for status	Status	Reference	Support
P 2	Call is a waiting call?	MC 9 NOT MC 9	M N/A	7	[ ]Yes [ ]No [ ] N/A
NOTE: This table only contains parameter values of relevance to EN 300 058-1. Additional parameter values may be required for support of basic call (EN 300 403-1).					
Comments:					

**Table A.7: Notification indicator information element values transmitted by the network**

Item	Notification indicator information element values: Does the implementation support...	Conditions for status	Status	Reference	Support
P 3	Call is a waiting call?	MC 10 NOT MC 10	M O	7	[ ]Yes [ ]No
NOTE: This table only contains parameter values of relevance to EN 300 058-1. Additional parameter values may be required for support of basic call (EN 300 403-1).					
Comments:					

## A.8.5 Timers

**Table A.8: Timers - network**

Item	Timer: Does the implementation support...	Conditions for status	Status	Reference	Support
TM 2	T-CW?	R 3.1 NOT R 3.1	O N/A	13	[ ]Yes [ ]No [ ]N/A
Comments:					

## 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, generic functional protocol and supplementary service interactions PICS proforma required for support of EN 300 058-1 [1]. 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 the present document. "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 EN 300 403-3 [7]. All references are to EN 300 058-1 [1] 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 4.1 NOT R 4.1	M N/A	[2] 5.2

#### B.1.2 Requirements on items used in the generic functional protocol PICS

In the tabulations which follow in this subclause all item numbers are as contained in EN 300 196-2 [6]. All references are to EN 300 058-1 [1] unless otherwise stated.

**Table B.2: ALERTING PDU parameters transmitted - user**

Item	ALERTING PDU parameters: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
IETu 9.2	the Notification indicator?	O	MC 5 AND R 2.1 NOT (MC 5 AND R 2.1)	M N/A	10.1, [5] 11.2.2.2

#### B.1.3 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 EN 300 195-2 [4]. All references are to EN 300 058-1 [1] unless otherwise stated.

**Table B.3: Major capabilities - user**

Item	Major capability: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
MC 1.6	the CW supplementary service interactions with other implemented supplementary services?	O	R 2.1 NOT R 2.1	M N/A	12, [3] 5

## B.2 Network

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

No items requiring response.

### B.2.2 Requirements on items used in the generic functional protocol PICS

In the tabulations which follow in this subclause all item numbers are as contained in EN 300 196-2 [6]. All references are to EN 300 058-1 [1] unless otherwise stated.

**Table B.4: ALERTING PDU parameters received - network**

Item	ALERTING PDU parameters: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
IERn 9.2	the Notification indicator?	O	MC 9 AND R 2.2 NOT (MC 9 AND R 2.2)	M N/A	10.2, [5] 11.2.2.2

**Table B.5: ALERTING PDU parameters transmitted - network**

Item	ALERTING PDU parameters: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
IETn 9.2	the Notification indicator?	O	MC 10 AND R 2.2 NOT (MC 10 AND R 2.2)	M O	10.2, [5] 11.2.2.2

### B.2.3 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 EN 300 195-2 [4]. All references are to EN 300 058-1 [1] unless otherwise stated.

**Table B.6: Major capabilities - network**

Item	Major capability: Does the implementation support...	Status base	SS conditions for status	SS status	Reference
MC 2.6	the CW supplementary service interactions with other implemented supplementary services?	O	R 2.2 NOT R 2.2	M N/A	12, [3] 5

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## Annex C (informative): Changes with respect to the previous ETS 300 058-2

The following changes have been done:

- conversion to EN layout;
- replacement of references to ETS 300 102 with EN 300 403;
- replacement of references to I-ETSs with EN 300 403;
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

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## History

<b>Document history</b>		
Edition 1	September 1995	Publication as ETS 300 058-2
V1.2.3	February 1998	One-step Approval Procedure      OAP 9824: 1998-02-13 to 1998-06-12