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Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Generic functional protocol;
Core aspects;
Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS is part 2 of a multi-part standard covering the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. two (DSS2) core aspects of the generic functional protocol for the support of supplementary services as described below:

Part 1:   "Protocol specification [ITU-T Recommendation Q.2932.1, 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".

NOTE: The final structure of the parts containing the test specifications is currently under study.

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).

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (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 ETS 300 796 is applicable to the stage three of the generic functional protocol core aspects for the support of supplementary services 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) protocol. 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 generic functional protocol core aspects for the support of supplementary services as specified in ETS 300 796-1 [5] 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 300 796-1 [5] 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 300 662-2 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Multiple Subscriber Number (MSN) supplementary service; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[4]   ETS 300 667-2 (1996): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Subaddressing (SUB) supplementary service; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[5]   ETS 300 796-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Generic functional protocol; Core aspects; Part 1: Protocol specification [ITU-T Recommendation Q.2932.1, modified]".

[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 and abbreviations

3.1   Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 796-1 [5]:

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]).

3.2   Abbreviations

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

AND	Boolean "and"
B-ISDN	Broadband ISDN
DSS2	Digital Subscriber Signalling System No. two
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
ROSE	Remote Operations Service Element
SC	Subsidiary Capabilities
SCS	System Conformance Statement
SUT	System Under Test
TM	Prefix for index numbers for the timers group
Yes	supported

4 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 conforms to ETS 300 796-1 [5];

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

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 Guidance for completing the PICS proforma

A.1.1 Purpose and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ETS 300 796-1 [5] may provide information in a standardized manner.

The PICS proforma is subdivided into subclauses for the following categories of information:

A.1: guidance for completing the ICS 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 major capabilities;
A.8: questions for subsidiary capabilities;
A.9: questions for protocol data units;
A.10: questions for protocol data unit parameters;
A.11: questions for the facility information element structure;
A.12: questions for timers.

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 [7].

Item column

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma. Items are not always numbered sequentially.

Item description column

The item description contains a brief summary of the static requirement for which a support answer is required.

Conditions for status column

The conditions for status column contains a specification, if appropriate, of the predicate upon which a condition status is based.

Status column

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

I   Irrelevant or out-of-scope - this capability is outside the scope of the ETS to which this PICS proforma applies and is not subject to conformance testing in this context;

M   Mandatory - the capability is required to be supported;

N/A   Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required;

O   Optional - the capability may be supported or not;

O.i   qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies an unique group of related optional items and the logic of their selection, defined below the table;

X   eXcluded or prohibited - there is a requirement not to use this capability in a given context.

Reference column

Except where explicitly stated, the reference column refers to the appropriate text of ETS 300 796-1 [5] describing the particular item.

NOTE: A reference indicates only the location of the most essential information about an item. All additional requirements contained in ETS 300 796-1 [5] have also to be taken into account when making a statement about the conformance of that particular item.

Support column

The following notation, defined in ISO/IEC 9646-7 [7], is used for the support column:

[ ] Yes   Tick "Yes" if item is supported.

[ ] No   Tick "No" if item is not supported.

[ ] N/A   Tick "N/A" if item is "not applicable".

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a subclause heading or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3   Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma. For each row in each PICS proforma table the supplier shall enter an explicit answer (i.e. by ticking the appropriate "Yes", "No", or "N/A" in each of the support column boxes provided). Where a support column is left blank, or where it is marked "N/A" without any tickbox, no answer is required.

If necessary, the supplier may enter additional comments at the end of each table, or separately.

More detailed instructions may be found at the beginning of each subclause of the proforma.

A.2   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 to provide as much detail as possible regarding version numbers and configuration options.

The product supplier 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.

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 Identification of the protocol to which this PICS proforma applies

This PICS proforma applies to the following standard:

ETS 300 796-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Generic functional protocol for the support of supplementary services; Core aspects; Part 1: Protocol specification".

A.4 PICS proforma tables

A.4.1 Correspondence to a physical interface

The "implementation" (IUT) about which this PICS proforma asks questions corresponds to a layer 3 implementation on top of **one** physical interface. If the SUT implements more than one configuration, then a layer 3 PICS shall be created for each type of interface (and for each configuration of each interface) provided by the SUT.

A.4.2 Structure of the tables

The supplier shall provide answers to the questions concerning the major roles of the IUT (table A.1). The supplier shall then provide answers to the questions relating to the capabilities of the IUT in one of the major roles as appropriate.

A.4.3 Support for received PDU parameters

In the PDU parameter tables (see subclause A.10), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This subclause explains, in the context of ETS 300 796-1 [5], what "to support a received PDU parameter" means.

The requirement that an IUT is able to parse an information element in a received message is already implied by claiming support for the receipt of that received message. This means that "to support a received PDU parameter" implies more.

Information elements in received messages are regarded as either transparent or non-transparent.

A non-transparent information element is one that causes the protocol control entity to vary its behaviour in accordance with the content of the information element. To support a non-transparent information element means an IUT can process the received parameter and behave according to the procedures described in ETS 300 796-1 [5].

An information element is transparent if the actions taken according to its contents are not detectable in the subsequent behaviour of the protocol (i.e. ETS 300 796-1 [5] does not specify the protocol behaviour). To support a transparent information element means an IUT can receive the information element concerned and pass it to an appropriate processing entity (e.g. GFT-control); the information element is not discarded by the protocol control entity. Non-support of a transparent information element means the IUT discards it.

This PICS proforma considers the Cause information element to be transparent in all circumstances where it is possible to be received. Other information elements may be transparent in some circumstances.

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.

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	9, 10	[ ]Yes [ ]No
R 2.2	support network requirements?		O.1	9, 10	[ ]Yes [ ]No
R 3	not used				
R 4	not used				
R 5.1	support the functions of an initiating entity?		O.2	9, 10	[ ]Yes [ ]No
R 5.2	support the functions of a responding entity?		O.2	9, 10	[ ]Yes [ ]No
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   Major capabilities

Table A.2: Major capabilities

Item	Major capability: Does the implementation...	Conditions for status	Status	Reference	Support
MC 2.1	support bearer related transport mechanism?		O.3	8.3.1	[ ]Yes [ ]No [ ]N/A
MC 2.2	support bearer independent transport mechanism?		O.3	8.3.2	[ ]Yes [ ]No [ ]N/A
MC 2.3	support (bearer independent) connection-oriented transport mechanism?	MC 2.2 NOT MC 2.2	O.4 N/A	8.3.2, 8.3.2.1	[ ]Yes [ ]No [ ]N/A
MC 2.4	support (bearer independent) connectionless transport mechanism?	MC 2.2 NOT MC 2.2	O.4 N/A	8.3.2, 8.3.2.2	[ ]Yes [ ]No [ ]N/A
MC 3	support notification category procedures?		M	9	[ ]Yes [ ]No
MC 3.1	support transport of bearer-independent notifications?	MC 3 NOT MC 3	O N/A	9.4	[ ]Yes [ ]No [ ]N/A
MC 4	support interworking with narrowband ISDNs?		O	1.11.1	[ ]Yes [ ]No
MC 5.1	support interworking by full termination?	MC4 NOT MC4	O.5 N/A	1.11.1.1	[ ]Yes [ ]No
MC 5.2	support interworking by generic interworking function?	MC4 NOT MC4	O.5 N/A	1.11.1.2	[ ]Yes [ ]No [ ]N/A
O.3 O.4 O.5	Support of at least 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.				
Comments:					

A.8   Subsidiary capabilities

Table A.3: Subsidiary capabilities

Item	Capability: Does the implementation...	Conditions for status	Status	Reference	Support
SC 3	**Notification procedures**				
SC 3.1	support the transport of notification information in simple notification "indicators"?	MC 3 NOT MC 3	O.6 N/A	9.2	[ ]Yes [ ]No [ ]N/A
SC 3.2	support the transport of notification information in notification "parameters"?	MC 3 NOT MC 3	O.6 N/A	9.2	[ ]Yes [ ]No [ ]N/A
SC 3.3	support the transport of notification information in notification "indicators" and "parameters" using an extension codepoint in octet 3 of the Notification indicator information element?	MC 3 NOT MC 3	O.6 N/A	9.2	[ ]Yes [ ]No [ ]N/A
O.6	Support of at least one of these options is required.				
Comments:					

A.9 Protocol Data Units (PDUs)

The tables in this clause ask questions related to the supported PDUs. In the DSS2 protocol, PDUs are known by the term "messages".

A.9.1 Messages received

Indicating support for an item in table A.4 states that the implementation has the ability to recognize the message listed in that item. Support for the receipt of a particular type of PDU means support for recognizing and acting upon all valid instances of that PDU type, including all valid PDU parameters, to the extent required by ETS 300 796-1 [5].

Table A.4: Messages received

Item	Message: Does the implementation support the interpretation of...	Conditions for status	Status	Reference	Support
MR 1	CO-BI SETUP?	MC 2.3 AND R 5.2 NOT (MC 2.3 AND R 5.2)	M N/A	8.3.2.1.1, 11.1.2.2	[ ]Yes [ ]No [ ]N/A
MR 2	FACILITY?		M	8.3, 11.1.1.1, 11.1.2.1, 11.1.3.1	[ ]Yes [ ]No [ ]N/A
Comments:					

A.9.2 Messages transmitted

Indicating support for an item in table A.5 states that the implementation has the ability to transmit the message listed in that item.

Table A.5: Messages transmitted

Item	Message: Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
MT 1	CO-BI SETUP?	MC 2.3 AND R 5.2 NOT (MC 2.5 AND R 5.2)	M N/A	8.3.2.1.1, 11.1.2.2	[ ]Yes [ ]No [ ]N/A
MT 2	FACILITY?		M	8.3, 11.1.1.1, 11.1.2.1, 11.1.3.1	[ ]Yes [ ]No
Comments:					

A.10 PDU parameters

The tables in this clause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT. In DSS2, protocol PDU parameters are known by the term "information elements".

Subclauses A.10.1.1, A.10.2.1 and A.10.3.1 contain tables relating to messages received by the IUT. Subclauses A.10.1.2, A.10.2.2 and A.10.3.2 contain tables relating to messages transmitted by the IUT.

Tables A.6 and A.7 of ETS 300 443-2 [2] deal with six information elements that appear in all messages that are either received or transmitted (respectively) by the IUT, and the answers within those tables apply unchanged within the present proforma.

A.10.1 Bearer-related transport mechanism

A.10.1.1 PDU parameters received

Indicating support for an item in the tables in this subclause states that the implementation has the ability to process the information elements listed in the specified received messages (refer to subclause A.4.3).

Table A.6: ALERTING PDU parameters received

Item	ALERTING PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 1.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.7: CALL PROCEEDING PDU parameters received

Item	CALL PROCEEDING PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 2.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.8: CONNECT PDU parameters received

Item	CONNECT PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 3.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.9: FACILITY PDU parameters received

Item	FACILITY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 4.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 4.2	Notification indicator?	MC 2.1 AND MC 3.1 NOT (MC 2.1 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.10: PROGRESS PDU parameters received

Item	PROGRESS PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 5.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.11: RELEASE PDU parameters received

Item	RELEASE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 6.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.12: RELEASE COMPLETE PDU parameters received

Item	RELEASE COMPLETE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 7.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.13: SETUP PDU parameters received

Item	SETUP PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 8.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

A.10.1.2 PDU parameters transmitted

Indicating support for an item in the tables in this subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

Table A.14: ALERTING PDU parameters transmitted

Item	ALERTING PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 1.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.15: CALL PROCEEDING PDU parameters transmitted

Item	CALL PROCEEDING PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 2.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.16: CONNECT PDU parameters transmitted

Item	CONNECT PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 3.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.17: FACILITY PDU parameters transmitted

Item	FACILITY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 4.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 4.2	Notification indicator?	MC 2.1 AND MC 3.1 NOT (MC 2.1 AND MC 3.1)	O N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.18: PROGRESS PDU parameters transmitted

Item	PROGRESS PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 5.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.19: RELEASE PDU parameters transmitted

Item	RELEASE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 6.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.20: RELEASE COMPLETE PDU parameters transmitted

Item	RELEASE COMPLETE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 7.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

Table A.21: SETUP PDU parameters transmitted

Item	SETUP PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 8.1	Facility?	MC 2.1 NOT MC 2.1	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
NOTE:	These parameters are additional to those required for support of basic call (ETS 300 443-1 [1]).				
Comments:					

A.10.2 Connection-oriented bearer-independent transport mechanism

A.10.2.1 PDU parameters received

Indicating support for an item in the tables in this subclause states that the implementation has the ability to process the information elements listed in the specified received messages (refer to subclause A.4.3).

Table A.22: CO-BI SETUP PDU parameters received

Item	CO-BI SETUP PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 10.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 10.2	Called party number?	MC 2.3 AND [3]MC 1.1 NOT (MC 2.3 AND [3]MC 1.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 10.3	Called party subaddress?	MC 2.3 AND [4]R 2.1 NOT (MC 2.3 AND [4]R 2.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 10.4	Calling party number?	MC 2.3 AND [3]MC 4.1 NOT (MC 2.3 AND [3]MC 4.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 10.5	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.23: CONNECT PDU parameters received

Item	CONNECT PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 11.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 11.2	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.24: FACILITY PDU parameters received

Item	FACILITY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 12.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 12.1	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.25: NOTIFY PDU parameters received

Item	NOTIFY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 13.1	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.26: RELEASE PDU parameters received

Item	RELEASE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 14.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 14.2	Notification indicator?	MC 2.3 AND 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.27: RELEASE COMPLETE PDU parameters received

Item	RELEASE COMPLETE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 15.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 15.2	Notification indicator?	MC 2.3 AND 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.28: STATUS PDU parameters received

Item	STATUS PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 16.1	Call state?	MC 2.3 NOT MC 2.3	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 16.2	Cause?	MC 2.3 NOT MC 2.3	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

A.10.2.2 PDU parameters transmitted

Indicating support for an item in the tables in this subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

Table A.29: CO-BI SETUP PDU parameters received

Item	CO-BI SETUP PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 10.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 10.2	Called party number?	MC 2.3 AND [3]MC 3.1 NOT (MC 2.3 AND [3]MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 10.3	Called party subaddress?	MC 2.3 AND [4]R 2.2 NOT (MC 2.3 AND [4]R 2.2)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 10.4	Calling party number?	MC 2.3 AND [3]MC 2.1 NOT (MC 2.3 AND [3]MC 2.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 10.5	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.30: CONNECT PDU parameters received

Item	CONNECT PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 11.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 11.2	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.31: FACILITY PDU parameters received

Item	FACILITY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 12.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 12.2	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.32: NOTIFY PDU parameters received

Item	NOTIFY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 13.1	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.33: RELEASE PDU parameters received

Item	RELEASE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 14.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 14.2	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.34: RELEASE COMPLETE PDU parameters received

Item	RELEASE COMPLETE PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 15.1	Facility?	MC 2.3 NOT MC 2.3	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 15.2	Notification indicator?	MC 2.3 AND MC 3.1 NOT (MC 2.3 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.35: STATUS PDU parameters received

Item	STATUS PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 16.1	Call state?	MC 2.3 NOT MC 2.3	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 16.2	Cause?	MC 2.3 NOT MC 2.3	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

A.10.3   Connectionless bearer-independent transport mechanism

A.10.3.1   PDU parameters received

Indicating support for an item in the tables in this subclause states that the implementation has the ability to process the information elements listed in the specified received messages (refer to subclause A.4.3).

Table A.36: FACILITY PDU parameters received

Item	FACILITY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IER 18.1	Facility?	MC 2.4 NOT MC 2.4	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IER 18.2	Called party number?	MC 2.4 AND [3]MC 1.1 NOT (MC 2.4 AND [3]MC 1.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 18.3	Called party subaddress?	MC 2.4 AND [4]R 2.1 NOT (MC 2.4 AND [4]R 2.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 18.4	Calling party number?	MC 2.4 AND [3]MC 4.1 NOT (MC 2.4 AND [3]MC 4.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IER 18.5	Notification indicator?	MC 2.4 AND MC 3.1 NOT (MC 2.4 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

A.10.3.2 PDU parameters transmitted

Indicating support for an item in the tables in this subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

Table A.37: FACILITY PDU parameters transmitted

Item	FACILITY PDU parameters: Does the implementation support the ...	Conditions for status	Status	Reference	Support
IET 18.1	Facility?	MC 2.4 NOT MC 2.4	M N/A	1.8.2.2.2	[ ]Yes [ ]No [ ]N/A
IET 18.2	Called party number?	MC 2.4 AND [3]MC 3.1 NOT (MC 2.4 AND [3]MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 18.3	Called party subaddress?	MC 2.4 AND [4]R 2.2 NOT (MC 2.4 AND [4]R 2.2)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 18.4	Calling party number?	MC 2.4 AND [3]MC 2.1 NOT (MC 2.4 AND [3]MC 2.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
IET 18.5	Notification indicator?	MC 2.4 AND MC 3.1 NOT (MC 2.4 AND MC 3.1)	M N/A	[1] 4.5	[ ]Yes [ ]No [ ]N/A
Comments:					

A.11 Facility information element structure

Table A.38 concerns the Facility information element.

NOTE: The remainder of the contents of the Facility information element are defined by the PICS proforma for the ROSE protocol.

Table A.38: Facility structure

Item	Information element field	Status	Values	Support
IS 1.1	Octet 5 bits 1 to 5, protocol profile	M		[ ]Yes [ ]No
	1. Remote operations protocol	M	17	[ ]Yes [ ]No
Comments:				

A.12   Timers

Indicating support for an item in table A.39 states that the implementation has a timer that operates in accordance with the relevant behaviour specified in clauses 9 and 10 of ETS 300 796-1 [5].

Table A.39 indicates the permitted range of values for each timer. The supplier shall state the values supported by their implementation.

Table A.39: Timers

Item	Timer: Does the implementation support...	Conditions for status	Status	Reference	Support
TM 1	T303?	MC 2.3 NOT MC 2.3	M N/A	1.12.1	[ ]Yes [ ]No [ ]N/A
TM 2	T308?	MC 2.3 NOT MC 2.3	M N/A	1.12.1	[ ]Yes [ ]No [ ]N/A
TM 2a	2nd T308?	MC 2.3 NOT MC 2.3	M N/A	1.12.1	[ ]Yes [ ]No [ ]N/A
TM 3	T309?	MC 2.3 NOT MC 2.3	M N/A	1.12.1	[ ]Yes [ ]No [ ]N/A
TM 4	T322?	MC 2.3 NOT MC 2.3	M N/A	1.12.1	[ ]Yes [ ]No [ ]N/A
TM 5	T310?	MC 2.3 NOT MC 2.3	M N/A	1.12.1	[ ]Yes [ ]No [ ]N/A
Comments:					

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