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**Integrated Services Digital Network (ISDN);  
Digital Subscriber Signalling System No. one (DSS1) protocol;  
Data link layer;  
Part 4: Protocol Implementation Conformance Statement (PICS)  
proforma specification for the general protocol**

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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 4 of a multi-part standard covering the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. one (DSS1) data link layer specification as described below:

- Part 1: "General aspects [ITU-T Recommendation Q.920 (1993), modified]";
- Part 2: "General protocol specification [ITU-T Recommendation Q.921 (1993), modified]";
- Part 3: "Frame relay protocol specification";
- Part 4: "Protocol Implementation Conformance Statement (PICS) proforma specification for the general protocol";**
- Part 5: "PICS proforma specification for the frame relay protocol";
- Part 6: "Test Suite Structure and Test Purposes (TSS&TP) specification for the general protocol";
- Part 7: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the general protocol".

Transposition dates	
Date of adoption of this ETS:	6 September 1996
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## Introduction

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 an Implementation Conformance Statement (ICS). An ICS stating what capabilities and options have been implemented for a particular protocol is called a protocol ICS. This is commonly abbreviated to "PICS".

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## 1 Scope

This fourth part of ETS 300 402 provides the Protocol Implementation Conformance Statement (PICS) proforma for the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. one (DSS1) protocol data link layer general protocol as specified in ETS 300 402-2 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3].

The supplier of an implementation that is claimed to conform to ETS 300 402-2 [1] is required to complete a copy of the PICS proforma provided in annex A of this ETS.

The supplier of an implementation that is claimed to conform to annex ZA of ETS 300 402-2 [1] is required to complete a copy of the PICS proforma provided in annex B of this ETS.

## 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 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".
- [2] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [3] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those in ETS 300 402-2 [1], ISO/IEC 9646-1 [2] and ISO/IEC 9646-7 [3]:

**Implementation Conformance Statement (ICS):** A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, and information object ICS (see ISO/IEC 9646-1 [2]).

**network:** The DSS1 protocol entity at the network side of the user-network interface.

**Protocol Implementation Conformance Statement (PICS):** An ICS for an implementation or system claimed to conform to a given specification (see ISO/IEC 9646-1 [2]).

**PICS proforma:** A document, in the form of a questionnaire, which when completed for an implementation or system becomes a PICS (see ISO/IEC 9646-1 [2]).

**user:** The DSS1 protocol entity at the user side of the user-network interface.

### 3.2 Abbreviations

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

AND	Boolean "and"
DL	Data Link
DSS1	Digital Subscriber Signalling System No. one
FR	Frames Received
FT	Frames Transmitted
ICS	Implementation Conformance Statement
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
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PR	Parameter Received
PT	Parameter Transmitted
R	Role
SAP	Service Access Point
SAPI	Service Access Point Identifier
SC	Subsidiary Capabilities
SCS	System Conformance Statement
SDU	Service Data Unit
SP	System Parameter
SUT	System Under Test
TEI	Terminal Endpoint Identifier
TM	Timer
Yes	supported

## 4 Conformance

A PICS proforma that conforms to this PICS proforma specification shall be technically equivalent to either annex A or annex B, and shall preserve the numbering and ordering of the items in annex A or annex B, respectively.

A PICS that conforms to this PICS proforma specification shall:

- a) describe an implementation which conforms to the main text or to annex ZA of ETS 300 402-2 [1] ;
- b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clauses A.1 or B.1, respectively; and
- c) include the information necessary to uniquely identify both the supplier and the implementation.



## **Annex A (normative): PICS proforma for ETS 300 402-2**

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 300 402-2 [1] may provide information in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- A.1: instructions for completing the various parts of the PICS 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 the user role; and
- A.8: questions for the network role.

#### **A.1.2 Symbols, 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 [3].

##### **Item column:**

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma.

An additional lower case letter has been added to differentiate PICS items related to the user role (e.g. MCu) and PICS items related to the network role (e.g. MCn). In earlier PICS proformas both these cases were identified by the same mnemonic (e.g. MC).

##### **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 conditional status is based.

**Status column:**

The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

M	Mandatory - the capability is required to be supported.
O	Optional - the capability may be supported or not.
N/A	Not Applicable - in the given context, it is impossible to use the capability.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies a 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.

NOTE: To support a capability means that the capability is implemented in conformance to ETS 300 402-2 [1].

**Reference column:**

Except where explicitly stated, the reference column refers to the appropriate parts of ETS 300 402-2 [1] 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 300 402-2 [1] 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 [3], is used for the support column:

<input type="checkbox"/> Yes <input type="checkbox"/> No	Tick "Yes" if item is supported, tick "No" if item is not supported.
<input type="checkbox"/> N/A	Tick "N/A" if the 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 subclause 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 box is left blank, or where it is marked "N/A" without any tick box, 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:

.....

E-mail address:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

Additional information:

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

**A.2.5 Client**

Name:

.....

E-mail address:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

Additional information:

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

### A.2.6 PICS contact person

Name:

.....

E-mail address:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

### A.3 Identification of the protocol to which this PICS proforma applies

This PICS proforma applies to the following standard:

**ETS 300 402-2 (1995):** "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

### A.4 The 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 2 implementation on top of ONE physical interface (i.e. one ISDN Basic access or one ISDN Primary rate access interface structure). If the SUT implements both Basic access and Primary rate access interface structures, and in the case of the Basic access, supports more than one configuration, then a layer 2 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 and the type of interface (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. The supplier shall also provide answers to the questions relating to the type of interface supporting the IUT (the behaviour of the IUT is dependant on the type of interface and its configuration). Apart from the initial questions to determine roles, the major roles of the IUT - the user role (R 2.1) and the network role (R 2.2), are treated completely separately in the PICS proforma. It is only necessary to complete the questions for the supported role.

Clause A.7 concerns the capabilities of the IUT whilst in the user role. Clause A.8 concerns the capabilities of the IUT whilst in the network role.

### 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.

### A.6 Roles

Table A.1: Roles

Item	Role	Conditions for status	Status	Reference	Support
R 1	not used				
R 2.1	the user role		O.1		<input type="checkbox"/> Yes <input type="checkbox"/> No
R 2.2	the network role		O.1		<input type="checkbox"/> Yes <input type="checkbox"/> No
	<b>Type of implementation</b>				
R 3	not used				
R 4	not used				
R 5	not used				
R 6.1	basic access		O.2		<input type="checkbox"/> Yes <input type="checkbox"/> No
R 6.2	primary rate access		O.2		<input type="checkbox"/> Yes <input type="checkbox"/> No
O.1	Support of one and only one of these options is required.				
O.2	Support of one and only one of these options is required.				
Comments:					

## A.7 User

The tables provided in this subclause need only to be completed for user implementations.

Prerequisite: R 2.1

### A.7.1 Major capabilities

Each question in table A.2 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and subclauses of ETS 300 402-2 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.2: Major capabilities - user

Item	Major capability: does the IUT support...	Conditions for status	Status	Reference	Support
<b>General</b>					
MCu 1.1	configurations using more than one Terminal Endpoint Identifier (TEI)?		O.3	Annex A	[ ]Yes [ ]No
MCu 1.2	point-to-point configurations using only one TEI value?		O.3	Annex A	[ ]Yes [ ]No
<b>Procedures for unacknowledged information transfer</b>					
MCu 2.1	the unacknowledged information transfer service in the broadcast data link (using TEI value 127)?	MCu 3 NOT MCu 3	M O	5.2	[ ]Yes [ ]No
MCu 2.2	the unacknowledged information transfer service in a point-to-point data link (using a TEI value other than 127)?		O	5.2, 5.2.1	[ ]Yes [ ]No
<b>TEI management procedure</b>					
MCu 3	TEI management procedures?	MCu 1.1 MCu 1.2	M O	5.3 Annex A	[ ]Yes [ ]No
MCu 3.1.1	the automatic TEI assignment procedures?	MCu 3 NOT MCu 3	O.4 N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
MCu 3.1.2	the non-automatic TEI assignment procedures?	MCu 3 NOT MCu 3	O.4 N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
MCu 3.2	the TEI check procedures?	MCu 3 NOT MCu 3	M N/A	5.3.3	[ ]Yes [ ]No [ ]N/A
MCu 3.3	the TEI removal procedures?	MCu 3 NOT MCu 3	M N/A	5.3.4	[ ]Yes [ ]No [ ]N/A
MCu 3.4	the TEI identity verify procedures?	MCu 3 NOT MCu 3	O N/A	5.3.5	[ ]Yes [ ]No [ ]N/A
<b>Initialization of data link layer parameters</b>					
MCu 4	the procedures for initialization of the data link parameters to the default values?		M	5.4	[ ]Yes [ ]No
<b>Multiple frame operations</b>					
MCu 5	multiple frame operations?		M	5.5	[ ]Yes [ ]No
MCu 5.1.1	the self initiated establishment of multiple frame operation?		O	5.5.1, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCu 5.1.2	the peer initiated establishment of multiple frame operation?		M	5.5.1, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCu 5.2.1	the self initiated termination of multiple frame operation?		O	5.5.3, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCu 5.2.2	the peer initiated termination of multiple frame operation?		M	5.5.3, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCu 5.3	information transfer in multiple frame operation?		M	5.6	[ ]Yes [ ]No
MCu 5.4	the re-establishment of multiple frame operation?		M	5.7	[ ]Yes [ ]No
MCu 5.5	the data link layer monitor function?		O	5.10	[ ]Yes [ ]No
O.3	Support of one and only one of these options is required.				
O.4	Support of one and only one of these options is required.				
Comments:					

**A.7.2 Subsidiary capabilities**

Indicating support for an item in table A.3 states that the implementation supports special cases or options within a major capability.

**Table A.3: Subsidiary capabilities - user**

Item	Subsidiary capability: does the IUT support...	Conditions for status	Status	Reference	Support
<b>TEI management procedures</b>					
SCu 1.1	the multiple use of the TEI assignment procedure to obtain a number of TEI values?	MCu 3.1.1 NOT MCu 3.1.1	O N/A	5.3.1	[ ]Yes [ ]No [ ]N/A
SCu 1.2	the checking of whether the TEI received in an Identity Assigned message is already used, when no Identity Request message is outstanding?	MCu 3.1.1 NOT MCu 3.1.1	O N/A	5.3.2, 5.3.4.2	[ ]Yes [ ]No [ ]N/A
after having assumed a possible duplicate assignment by checking a received Identity Assigned message, ...					
SCu 1.3.1	initiation of TEI removal?	MCu 3.3 NOT MCu 3.3	O.5 N/A	5.3.2, 5.3.4.2	[ ]Yes [ ]No [ ]N/A
SCu 1.3.2	initiation of TEI identity verify procedures?	MCu 3.4 NOT MCu 3.4	O.5 N/A	5.3.2, 5.3.4.2	[ ]Yes [ ]No [ ]N/A
after having received a MDL-ERROR primitive indicating that the DL entity has assumed a possible duplicate assignment, ...					
SCu 1.4.1	initiation of TEI removal?	MCu 3.3 NOT MCu 3.3	O.6 N/A	5.3.2, 5.3.4.2	[ ]Yes [ ]No [ ]N/A
SCu 1.4.2	initiation of TEI identity verify procedures?	MCu 3.4 NOT MCu 3.4	O.6 N/A	5.3.2, 5.3.4.2	[ ]Yes [ ]No [ ]N/A
SCu 1.5	the sending of more than one TEI value within a single Identity check response message?	MCu 3.2 NOT MCu 3.2	O N/A	5.3.3	[ ]Yes [ ]No [ ]N/A
<b>Multiple frame operations</b>					
SCu 2	the transmission of I frames in the own receiver busy condition?		O	5.6.1	[ ]Yes [ ]No
O.5	Support of at least one of these options is required.				
O.6	Support of at least one of these options is required.				
Comments:					



### A.7.3 Protocol data units

The tables in this subclause ask questions related to the support of Protocol Data Units (PDUs) in the user role.

#### A.7.3.1 Frames received by the user

Indicating support for an item in table A.4 states that the implementation has the ability to recognize the frame specified by 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 300 402-2 [1].

Table A.4: Frames received - user

Item	Message: does the IUT support the receipt of a frame of type...	Conditions for status	Status	Reference	Support
<b>Information transfer (I) format</b>					
FRu 1	I command?		M	3.6.2, 5.6	[ ]Yes [ ]No
<b>Supervisory (S) format</b>					
FRu 2	RR command?		M	3.6.6, 5.6, 5.10	[ ]Yes [ ]No
FRu 3	RR response?		M	3.6.6, 5.6, 5.10	[ ]Yes [ ]No
FRu 4	RNR command?		M	3.6.8, 5.6, 5.10	[ ]Yes [ ]No
FRu 5	RNR response?		M	3.6.8, 5.6, 5.10	[ ]Yes [ ]No
FRu 6	REJ command?		M	3.6.7, 5.6, 5.8.1	[ ]Yes [ ]No
FRu 7	REJ response?		M	3.6.7, 5.6, 5.8.1	[ ]Yes [ ]No
<b>Unnumbered (U) format</b>					
FRu 8	SABME command?		M	3.6.3, 5.5.1, 5.7	[ ]Yes [ ]No
FRu 9	DISC command?		M	3.6.4, 5.5.3	[ ]Yes [ ]No
FRu 10	UA response?		M	3.6.9, 5.5	[ ]Yes [ ]No
FRu 11	DM response?		M	3.6.10, 5.5	[ ]Yes [ ]No
FRu 12	UI command?	MCu 2.1 OR MCu 2.2 NOT (MCu 2.1 OR MCu 2.2)	M  O	3.6.5, 5.2.3, 5.3	[ ]Yes [ ]No
FRu 13	FRMR response?		M	3.6.11, 5.8.6	[ ]Yes [ ]No
FRu 14	XID command?		M	3.6.12	[ ]Yes [ ]No
FRu 15	XID response?		M	3.6.12	[ ]Yes [ ]No
Comments:					

A.7.3.2 Frames transmitted by the user

Indicating support for an item in table A.5 states that the implementation has the ability to transmit the frame specified by that item.

Table A.5: Frames transmitted - user

Item	Message: does the IUT support the transmission of a frame of type...	Conditions for status	Status	Reference	Support
<b>Information transfer (I) format</b>					
FTu 1	I command?		M	3.6.2, 5.6	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Supervisory (S) format</b>					
FTu 2	RR command?		M	3.6.6, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 3	RR response?		M	3.6.6, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 4	RNR command?		M	3.6.8, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 5	RNR response?		M	3.6.8, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 6	REJ command?		M	3.6.7, 5.6, 5.8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 7	REJ response?		M	3.6.7, 5.6, 5.8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Unnumbered (U) format</b>					
FTu 8	SABME command?		M	3.6.3, 5.5.1, 5.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 9	DISC command?	MCu 5.2.1 NOT MCu 5.2.1	M O	3.6.4, 5.5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 10	UA response?		M	3.6.9, 5.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 11	DM response?		M	3.6.10, 5.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 12	UI command?	MCu 2.1 OR MCu 2.2 NOT (MCu 2.1 OR MCu 2.2)	M O	3.6.5, 5.2.2, 5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTu 13	FRMR response?		X	3.6.11, 5, 5.8.6	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

## A.7.4 PDU parameters

### A.7.4.1 Service data units

#### A.7.4.1.1 Service data units received by the user

The tables in this subclause ask questions related to the support of Service Data Unit (SDU) parameters in UI frames received and transmitted by the IUT in the user role.

**Table A.6: SDUs received in UI frames - user**

Item	Does the IUT support in the UI frame information field the interpretation of ...	Conditions for status	Status	Reference	Support
PRu 1	Layer 3 messages?	FRu 12 NOT FRu 12	O N/A	5.2	[ ]Yes [ ]No [ ]N/A
<b>Layer management messages</b>					
PRu 2.1	Identity assign?	MCu 3.1.1 NOT MCu 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
PRu 2.2	Identity denied?	MCu 3.1.1 NOT MCu 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
PRu 2.3	Identity check request?	MCu 3.2 NOT MCu 3.2	M N/A	5.3.3	[ ]Yes [ ]No [ ]N/A
PRu 2.4	Identity remove?	MCu 3.3 NOT MCu 3.3	M N/A	5.3.4	[ ]Yes [ ]No [ ]N/A
Comments:					

#### A.7.4.1.2 Service data units transmitted by the user

**Table A.7: SDUs transmitted in UI frames - user**

Item	Does the IUT support in the UI frame information field the inclusion of ...	Conditions for status	Status	Reference	Support
PTu 1	Layer 3 messages?	FTu 12 NOT FTu 12	O N/A	5.2	[ ]Yes [ ]No [ ]N/A
<b>Layer management messages</b>					
PTu 2.1	Identity request?	MCu 3.1.1 NOT MCu 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
PTu 2.2	Identity check response?	MCu 3.2 NOT MCu 3.2	M N/A	5.3.3	[ ]Yes [ ]No [ ]N/A
PTu 2.3	Identity verify?	MCu 3.4 NOT MCu 3.4	M N/A	5.3.5	[ ]Yes [ ]No [ ]N/A
Comments:					

**A.7.4.2 Address field variables**

The tables in this subclause ask questions related to the support of the values of certain fields of the address field received and transmitted by the IUT in the user role.

**Table A.8: SAPI values supported - user**

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
SAPu 1	SAPI value 0?		O.7	3.3.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
SAPu 2	SAPI value 12?		O.7	3.3.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
SAPu 3	SAPI value 16?		O.7	3.3.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
SAPu 4	SAPI value 63?	MCu 3 NOT MCu 3	M N/A	3.3.3, 5.3.1	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
O.7 Support of at least one of these options is required.					
Comments:					

**Table A.9: TEI values supported - user**

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
TElu 1	TEI value 0 exclusively?	MCu 1.2 NOT MCu 1.2	M N/A	3.3.4.2, Annex A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
TElu 2	TEI values in the range from 0 to 63?	MCu 3.1.2 NOT MCu 3.1.2	M N/A	3.3.4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
TElu 3	TEI values in the range from 64 to 126?	MCu 3.1.1 NOT MCu 3.1.1	M N/A	3.3.4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
TElu 4	TEI value 127?	MCu 2.1 NOT MCu 2.1	M N/A	3.3.4.1	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments:					

### A.7.5 Timers

Indicating support for an item in table A.10 states that the implementation has a timer that operates in accordance with the description in subclause 5.9 and the relevant behaviour in ETS 300 402-2 [1].

**Table A.10: Timers - user**

Item	Timer: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
TMu 1	T200 (default value 1 s)?		M	5.9.1	<input type="checkbox"/> Yes <input type="checkbox"/> No	
TMu 2	T202 (default value 2 s)?	MCu 1.1 MCu 1.2	M N/A	5.9.7	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
TMu 3	T203 (default value 10 s)?	MCu 5.5 NOT MCu 5.5	M N/A	5.9.8	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Comments:						

### A.7.6 System parameters

Indicating support for an item in table A.11 states that the implementation has implemented the system parameter.

**Table A.11: Parameters - user**

Item	System parameter: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
SPu 1	N200 (default value 3)?		M	5.9.2	<input type="checkbox"/> Yes <input type="checkbox"/> No	
SPu 2	N201 (default value 260)?		M	5.9.3	<input type="checkbox"/> Yes <input type="checkbox"/> No	
SPu 3	k (default values 1, 3, 7)?		M	5.9.5	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:						

## A.8 Network

The tables provided in this subclause need only to be completed for network implementations.

Prerequisite: R 2.2

### A.8.1 Major capabilities

Each question in table A.12 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and subclauses of ETS 300 402-2 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

**Table A.12: Major capabilities - network**

Item	Major capability: does the IUT support...	Conditions for status	Status	Reference	Support
<b>General</b>					
MCn 1.1	configurations using more than one Terminal Endpoint Identifier (TEI)?		O.8	Annex A	[ ]Yes [ ]No
MCn 1.2	point-to-point configurations using only one TEI value?		O.8	Annex A	[ ]Yes [ ]No
<b>Procedures for unacknowledged information transfer</b>					
MCn 2.1	the unacknowledged information transfer service in the broadcast data link (using TEI value 127)?	MCn 3 NOT MCn 3	M O	5.2	[ ]Yes [ ]No
MCn 2.2	the unacknowledged information transfer service in a point-to-point data link (using a TEI value other than 127)?		O	5.2, 5.2.1	[ ]Yes [ ]No
<b>TEI management procedure</b>					
MCn 3	TEI management procedures?	MCn 1.1 MCn 1.2	M O	5.3 Annex A	[ ]Yes [ ]No
MCn 3.1.1	the automatic TEI assignment procedures?	MCn 3 NOT MCn 3	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
MCn 3.1.2	the non-automatic TEI assignment procedures?	MCn 3 NOT MCn 3	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
MCn 3.2	the TEI check procedures?	MCn 3 NOT MCn 3	M N/A	5.3.3	[ ]Yes [ ]No [ ]N/A
MCn 3.3	the TEI removal procedures?	MCn 3 NOT MCn 3	M N/A	5.3.4	[ ]Yes [ ]No [ ]N/A
MCn 3.4	the TEI identity verify procedures?	MCn 3 NOT MCn 3	O N/A	5.3.5	[ ]Yes [ ]No [ ]N/A
<b>Initialization of data link layer parameters</b>					
MCn 4	the procedures for initialization of the data link parameters to the default values?		M	5.4	[ ]Yes [ ]No
<b>Multiple frame operations</b>					
MCn 5	multiple frame operations?		M	5.5	[ ]Yes [ ]No
MCn 5.1.1	the self initiated establishment of multiple frame operation?		O	5.5.1, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCn 5.1.2	the peer initiated establishment of multiple frame operation?		M	5.5.1, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCn 5.2.1	the self initiated termination of multiple frame operation?		O	5.5.3, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCn 5.2.2	the peer initiated termination of multiple frame operation?		M	5.5.3, 5.5.5, 5.5.6	[ ]Yes [ ]No
MCn 5.3	information transfer in multiple frame operation?		M	5.6	[ ]Yes [ ]No
MCn 5.4	the re-establishment of multiple frame operation?		M	5.7	[ ]Yes [ ]No
MCn 5.5	the data link layer monitor function?		O	5.10	[ ]Yes [ ]No
O.8	Support of one and only one of these options is required.				
Comments:					

### A.8.2 Subsidiary capabilities

Indicating support for an item in table A.13 states that the implementation supports special cases or options within a major capability.

**Table A.13: Subsidiary capabilities - network**

Item	Subsidiary capability: does the IUT support...	Conditions for status	Status	Reference	Support
SCn 1	not used				
<b>Multiple frame operations</b>					
SCn 2	the transmission of I frames in the own receiver busy condition?		O	5.6.1	[ ]Yes [ ]No
Comments:					

### A.8.3 Protocol data units

The tables in this subclause ask questions related to the support of PDUs in the network role.

#### A.8.3.1 Frames received by the network

Indicating support for an item in table A.14 states that the implementation has the ability to recognize the frame 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 300 402-2 [1].

**Table A.14: Frames received - network**

Item	Message: does the IUT support the receipt of a frame of type...	Conditions for status	Status	Reference	Support
<b>Information transfer (I) format</b>					
FRn 1	I command?		M	3.6.2, 5.6	[ ]Yes [ ]No
<b>Supervisory (S) format</b>					
FRn 2	RR command?		M	3.6.6, 5.6, 5.10	[ ]Yes [ ]No
FRn 3	RR response?		M	3.6.6, 5.6, 5.10	[ ]Yes [ ]No
FRn 4	RNR command?		M	3.6.8, 5.6, 5.10	[ ]Yes [ ]No
FRn 5	RNR response?		M	3.6.8, 5.6, 5.10	[ ]Yes [ ]No
FRn 6	REJ command?		M	3.6.7, 5.6, 5.8.1	[ ]Yes [ ]No
FRn 7	REJ response?		M	3.6.7, 5.6, 5.8.1	[ ]Yes [ ]No
<b>Unnumbered (U) format</b>					
FRn 8	SABME command?		M	3.6.3, 5.5.1, 5.7	[ ]Yes [ ]No
FRn 9	DISC command?		M	3.6.4, 5.5.3	[ ]Yes [ ]No
FRn 10	UA response?		M	3.6.9, 5.5	[ ]Yes [ ]No
FRn 11	DM response?		M	3.6.10, 5.5	[ ]Yes [ ]No
FRn 12	UI command?	MCn 2.1 OR MCn 2.2 NOT (MCn 2.1 OR MCn 2.2)	M  N/A	3.6.5, 5.2.3, 5.3	[ ]Yes [ ]No [ ]N/A
FRn 13	FRMR response?		M	3.6.11, 5.8.6	[ ]Yes [ ]No
FRn 14	XID command?		M	3.6.12	[ ]Yes [ ]No
FRn 15	XID response?		M	3.6.12	[ ]Yes [ ]No
Comments:					

**A.8.3.2 Frames transmitted by the network**

Indicating support for an item in table A.15 states that the implementation has the ability to transmit the frame listed in that item.

**Table A.15: Frames transmitted - network**

Item	Message: does the IUT support the transmission of a frame of type...	Conditions for status	Status	Reference	Support
<b>Information transfer (I) format</b>					
FTn 1	I command?		M	3.6.2, 5.6	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Supervisory (S) format</b>					
FTn 2	RR command?		M	3.6.6, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 3	RR response?		M	3.6.6, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 4	RNR command?		M	3.6.8, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 5	RNR response?		M	3.6.8, 5.6, 5.10	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 6	REJ command?		M	3.6.7, 5.6, 5.8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 7	REJ response?		M	3.6.7, 5.6, 5.8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Unnumbered (U) format</b>					
FTn 8	SABME command?		M	3.6.3, 5.5.1, 5.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 9	DISC command?	MCn 5.2.1 NOT MCn 5.2.1	M O	3.6.4, 5.5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 10	UA response?		M	3.6.9, 5.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 11	DM response?		M	3.6.10, 5.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
FTn 12	UI command?	MCn 2.1 OR MCn 2.2 NOT (MCn 2.1 OR MCn 2.2)	M N/A	3.6.5, 5.2.2, 5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
FTn 13	FRMR response?		X	3.6.11, 5, 5.8.6	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

**A.8.4 PDU parameters**

**A.8.4.1 Service data units**

**A.8.4.1.1 Service data units received by the network**

The tables in this subclause ask questions related to the support of SDU parameters in UI frames received and transmitted by the IUT in the network role.

**Table A.16: SDUs received in UI frames - network**

Item	Does the IUT support in the UI frame information field the interpretation of ...	Conditions for status	Status	Reference	Support
PRn 1	Layer 3 messages?	FRn 12 NOT FRn 12	O N/A	5.2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>Layer management messages</b>					
PRn 2.1	Identity request?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	5.3.2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
PRn 2.2	Identity check response?	MCn 3.2 NOT MCn 3.2	M N/A	5.3.3	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
PRn 2.3	Identity verify?	MCn 3.4 NOT MCn 3.4	M N/A	5.3.5	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments:					



**A.8.4.1.2 Service data units transmitted by the network**

**Table A.17: SDUs transmitted in UI frames - network**

Item	Does the IUT support in the UI frame information field the inclusion of ...	Conditions for status	Status	Reference	Support
PTn 1	Layer 3 messages?	FTn 12 NOT FTn 12	O N/A	5.2	[ ]Yes [ ]No [ ]N/A
<b>Layer management messages</b>					
PTn 2.1	Identity assign?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
PTn 2.2	Identity denied?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [ ]N/A
PTn 2.3	Identity check request?	MCn 3.2 NOT MCn 3.2	M N/A	5.3.3	[ ]Yes [ ]No [ ]N/A
PTn 2.4	Identity remove?	MCn 3.3 NOT MCn 3.3	M N/A	5.3.4	[ ]Yes [ ]No [ ]N/A
Comments:					

**A.8.4.2 Address field variables**

The tables in this subclause ask questions related to the support of the values of certain fields of the address field received and transmitted by the IUT in the network role.

**Table A.18: SAPI values supported - network**

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
SAPn 1	SAPI value 0?		O.9	3.3.3	[ ]Yes [ ]No
SAPn 2	SAPI value 12?		O.9	3.3.3	[ ]Yes [ ]No
SAPn 3	SAPI value 16?		O.9	3.3.3	[ ]Yes [ ]No
SAPn 4	SAPI value 63?	MCn 3 NOT MCn 3	M N/A	3.3.3, 5.3.1	[ ]Yes [ ]No [ ]N/A
O.9 Support of at least one of these options is required.					
Comments:					

**Table A.19: TEI values supported - network**

Item	Does the IUT support the...	Conditions for status	Status	Reference	Support
TEIn 1	TEI value 0 exclusively?	MCn 1.2 NOT MCn 1.2	M N/A	3.3.4.2, Annex A	[ ]Yes [ ]No [ ]N/A
TEIn 2	TEI values in the range from 0 to 63?	MCn 3.1.2 NOT MCn 3.1.2	M N/A	3.3.4.2	[ ]Yes [ ]No [ ]N/A
TEIn 3	TEI values in the range from 64 to 126?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	3.3.4.2	[ ]Yes [ ]No [ ]N/A
TEIn 4	TEI value 127?	MCn 2.1 NOT MCn 2.1	M N/A	3.3.4.1	[ ]Yes [ ]No [ ]N/A
Comments:					

**A.8.5 Timers**

Indicating support for an item in table A.20 states that the implementation has a timer that operates in accordance with the description in subclause 5.9 and the relevant behaviour in ETS 300 402-2 [1].

**Table A.20: Timers - network**

Item	Timer: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
TMn 1	T200 (default value 1 s)?		M	5.9.1	<input type="checkbox"/> Yes <input type="checkbox"/> No	
TMn 2	T201 (default value 1 s)?	MCn 1.1 MCn 1.2	M N/A	5.9.6	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
TMn 3	T203 (default value 10 s)?	MCn 5.5 NOT MCn 5.5	M N/A	5.9.8	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Comments:						

**A.8.6 System parameters**

Indicating support for an item in table A.21 states that the implementation has implemented the system parameter.

**Table A.21: Parameters - network**

Item	System parameter: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
SPn 1	N200 (default value 3)?		M	5.9.2	<input type="checkbox"/> Yes <input type="checkbox"/> No	
SPn 2	N201 (default value 260)?		M	5.9.3	<input type="checkbox"/> Yes <input type="checkbox"/> No	
SPn 3	k (default values 1, 3, 7)?		M	5.9.5	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:						

## Annex B (normative): PICS proforma for annex ZA of ETS 300 402-2

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.

### B.1 Guidance for completing the PICS proforma

#### B.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 annex ZA of ETS 300 402-2 [1] may provide information in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- B.1: instructions for completing the various parts of the PICS proforma;
- B.2: identification of the implementation;
- B.3: identification of the protocol to which this PICS proforma applies;
- B.4: explanation of the PICS proforma tables;
- B.5: global statement of conformance;
- B.6: Roles; and
- B.7: PICS questions.

#### B.1.2 Symbols, 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 [3].

##### Item column:

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma.

##### 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 conditional status is based.

##### Status column:

The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

M	Mandatory - the capability is required to be supported.
O	Optional - the capability may be supported or not.
N/A	Not Applicable - in the given context, it is impossible to use the capability.
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.

NOTE: To support a capability means that the capability is implemented in conformance to annex ZA of ETS 300 402-2 [1].

**Reference column:**

Except where explicitly stated, the reference column refers to the appropriate parts of annex ZA of ETS 300 402-2 [1] 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 300 402-2 [1] 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 [3], is used for the support column:

Yes  No                      Tick "Yes" if item is supported, tick "No" if item is not supported.

N/A                                  Tick "N/A" if the item is "not applicable".

**B.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 box is left blank, or where it is marked "N/A" without any tick box, 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.

**B.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.

**B.2.1 Date of the statement**

.....

**B.2.2 Implementation Under Test (IUT) identification**

IUT name:

.....

.....

IUT version:

.....

**B.2.3 System Under Test (SUT) identification**

SUT name:

.....  
.....

Hardware configuration:

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

Operating system:

.....  
.....

**B.2.4 Product supplier**

Name:

.....

E-mail address:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

Additional information:

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

**B.2.5 Client**

Name:

.....

E-mail address:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

**B.2.6 PICS contact person**

Name:

.....

E-mail address:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

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

### **B.3 Identification of the protocol to which this PICS proforma applies**

This PICS proforma applies to the protocol specified in:

**Annex ZA of ETS 300 402-2 (1995):** "Inter-exchange signalling data link layer protocol in Private Telecommunication Networks (PTNs) - Applicability and additions to frame structure, elements of procedures, formats of fields, elements for layer to layer communication, peer-to-peer procedures to accommodate PTN inter-exchange requirements".

### **B.4 The PICS proforma tables**

#### **B.4.1 Correspondence to a physical interface**

The "implementation" (IUT) about which this PICS proforma asks questions corresponds to a layer 2 implementation on top of ONE physical interface. If the SUT implements more than one interface structure, then a layer 2 PICS shall be created for each type of interface provided by the SUT.

#### **B.4.2 Structure of the tables**

The supplier shall provide answers to the questions relating to the capabilities of the IUT.

Clause B.7 concerns the capabilities of the IUT.

### **B.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.

### **B.6 Roles**

No items requiring response.

## B.7 PICS questions

### B.7.1 Major capabilities

Each question in table B.1 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and subclauses of annex ZA of ETS 300 402-2 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

**Table B.1: Major capabilities**

Item	Major capability: does the IUT support...	Conditions for status	Status	Reference	Support
<b>General</b>					
MC 1	point-to-point configurations using only Terminal Endpoint Identifier (TEI) value 0?		M	ZA	[ ]Yes [ ]No
<b>Procedures for unacknowledged information transfer</b>					
MC 2	the unacknowledged information transfer service?		O	ZA.4.2	[ ]Yes [ ]No
<b>TEI management procedure</b>					
MC 3	the non-automatic TEI assignment procedures?		M	ZA.4.3.2	[ ]Yes [ ]No
<b>Initialization of data link layer parameters</b>					
MC 4	the procedures for initialization of the data link parameters to the default values?		M	ZA.4.4	[ ]Yes [ ]No
<b>Multiple frame operations</b>					
MC 5	multiple frame operations?		M	ZA.4.5, ZA.4.6	[ ]Yes [ ]No
MC 5.1.1	the self initiated establishment of multiple frame operation?		O	ZA.4.5.1, ZA.4.5.5, ZA.4.5.6	[ ]Yes [ ]No
MC 5.1.2	the peer initiated establishment of multiple frame operation?		M	ZA.4.5.1, ZA.4.5.5, ZA.4.5.6	[ ]Yes [ ]No
MC 5.2.1	the self initiated termination of multiple frame operation?		O	ZA.4.5.2, ZA.4.5.5, ZA.4.5.6	[ ]Yes [ ]No
MC 5.2.2	the peer initiated termination of multiple frame operation?		M	ZA.4.5.2, ZA.4.5.5, ZA.4.5.6	[ ]Yes [ ]No
MC 5.3	information transfer in multiple frame operation?		M	ZA.4.6	[ ]Yes [ ]No
MC 5.4	the re-establishment of multiple frame operation?		M	ZA.4.7	[ ]Yes [ ]No
MC 5.5	the data link layer monitor function?		M	ZA.4.10	[ ]Yes [ ]No
Comments:					

### B.7.2 Subsidiary capabilities

Indicating support for an item in table B.2 states that the implementation supports special cases or options within a major capability.

**Table B.2: Subsidiary capabilities**

Item	Subsidiary capability: does the IUT support...	Conditions for status	Status	Reference	Support
<b>Multiple frame operations</b>					
SC 1	the transmission of I frames in the own receiver busy condition?		O	ZA.4.6.1	[ ]Yes [ ]No
Comments:					



### B.7.3 Protocol data units

The tables in this subclause ask questions related to the support of Protocol Data Units (PDUs).

#### B.7.3.1 Frames received

Indicating support for an item in table B.3 states that the implementation has the ability to recognize the frame specified by 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 annex ZA of ETS 300 402-2 [1].

**Table B.3: Frames received**

Item	Message: does the IUT support the receipt of a frame of type...	Conditions for status	Status	Reference	Support
<b>Information transfer (I) format</b>					
FR 1	I command?		M	ZA.2.6.2, ZA.4.6	[ ]Yes [ ]No
<b>Supervisory (S) format</b>					
FR 2	RR command?		M	ZA.2.6.6, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FR 3	RR response?		M	ZA.2.6.6, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FR 4	RNR command?		M	ZA.2.6.8, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FR 5	RNR response?		M	ZA.2.6.8, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FR 6	REJ command?		M	ZA.2.6.7, ZA.4.6, ZA.4.8.1	[ ]Yes [ ]No
FR 7	REJ response?		M	ZA.2.6.7, ZA.4.6, ZA.4.8.1	[ ]Yes [ ]No
<b>Unnumbered (U) format</b>					
FR 8	SABME command?		M	ZA.2.6.3, ZA.4.5.1, ZA.4.7	[ ]Yes [ ]No
FR 9	DISC command?		M	ZA.2.6.4, ZA.4.5.3	[ ]Yes [ ]No
FR 10	UA response?		M	ZA.2.6.9, ZA.4.5	[ ]Yes [ ]No
FR 11	DM response?		M	ZA.2.6.10, ZA.4.5	[ ]Yes [ ]No
FR 12	UI command?	MC 2 NOT MC 2	M O	ZA.2.6.5, ZA.4.2	[ ]Yes [ ]No
FR 13	FRMR response?		M	ZA.2.6.11, ZA.4.8.6	[ ]Yes [ ]No
FR 14	XID command?		M	ZA.2.6.12	[ ]Yes [ ]No
FR 15	XID response?		M	ZA.2.6.12	[ ]Yes [ ]No
Comments:					

**B.7.3.2 Frames transmitted**

Indicating support for an item in table B.4 states that the implementation has the ability to transmit the frame specified by that item.

**Table B.4: Frames transmitted**

Item	Message: does the IUT support the transmission of a frame of type...	Conditions for status	Status	Reference	Support
<b>Information transfer (I) format</b>					
FT 1	I command?		M	ZA.2.6.2, ZA.4.6	[ ]Yes [ ]No
<b>Supervisory (S) format</b>					
FT 2	RR command?		M	ZA.2.6.6, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FT 3	RR response?		M	ZA.2.6.6, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FT 4	RNR command?		M	ZA.2.6.8, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FT 5	RNR response?		M	ZA.2.6.8, ZA.4.6, ZA.4.10	[ ]Yes [ ]No
FT 6	REJ command?		M	ZA.2.6.7, ZA.4.6, ZA.4.8.1	[ ]Yes [ ]No
FT 7	REJ response?		M	ZA.2.6.7, ZA.4.6, ZA.4.8.1	[ ]Yes [ ]No
<b>Unnumbered (U) format</b>					
FT 8	SABME command?		M	ZA.2.6.3, ZA.4.5.1, ZA.4.7	[ ]Yes [ ]No
FT 9	DISC command?	MC 5.2.1 NOT MC 5.2.1	M O	ZA.2.6.4, ZA.4.5.3	[ ]Yes [ ]No
FT 10	UA response?		M	ZA.2.6.9, ZA.4.5	[ ]Yes [ ]No
FT 11	DM response?		M	ZA.2.6.10, ZA.4.5	[ ]Yes [ ]No
FT 12	UI command?		O	ZA.2.6.5, ZA.4.2	[ ]Yes [ ]No
FT 13	FRMR response?		X	ZA.2.6.11, ZA.4.8.6	[ ]Yes [ ]No
Comments:					

**B.7.4 PDU parameters**

The tables in this subclause ask questions related to the support of the values of certain fields of the address field received and transmitted by the IUT.

**Table B.5: SAPI values supported**

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
SAP 1	SAPI value 0?		M	ZA.2.3.3	[ ]Yes [ ]No
Comments:					

Table B.6: TEI values supported

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
TEI 1	TEI value 0 exclusively?		M	ZA.2.3.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

### B.7.5 Timers

Indicating support for an item in table B.7 states that the implementation has a timer that operates in accordance with the description in subclause ZA.4.9 of ETS 300 402-2 [1] and the relevant behaviour in annex ZA of ETS 300 402-2 [1].

Table B.7: Timers

Item	Timer: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
TM 1	T200 (default value 1 s)?		M	ZA.4.9	<input type="checkbox"/> Yes <input type="checkbox"/> No	
TM 2	T203 (default value 10 s)?		M	ZA.4.9	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:						

### B.7.6 System parameters

Indicating support for an item in table B.8 states that the implementation has implemented the system parameter.

Table B.8: Parameters

Item	System parameter: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
SP 1	N200 (default value 3)?		M	ZA.4.9	<input type="checkbox"/> Yes <input type="checkbox"/> No	
SP 2	N201 (default value 260)?		M	ZA.4.9	<input type="checkbox"/> Yes <input type="checkbox"/> No	
SP 3	k (default values 3, 7)? (note)		M	ZA.4.9	<input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: The use of a k value of 7 is required where a signalling channel of greater than or equal to 64 kbit/s is used. The use of a k value of 3 is required where a signalling channel of less than 64 kbit/s is used. Additional values of k may be used on particular inter-PTNX links by special arrangement between the two PTNXs.						
Comments:						

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