INTERNATIONAL STANDARD

ISO/IEC 8823-2

> Second edition 1997-07-01

Information technology — Open Systems Interconnection — Connection-oriented presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma

Technologies de l'information — Interconnexion de systèmes ouverts (OSI) — Protocote de présentation en mode orienté connexion: Formulaire de déclaration de conformité pour la mise en œuvre du protocole (PICS)



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 8823-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 21, Open systems interconnection, data management and open distributed processing, in collaboration with ITU-T. The identical text is published as ITU-T Recommendation X.246.

This second edition cancels and replaces the first edition (ISO/IEC 8823-2:1995), which has been technically revised.

ISO/IEC 8823 consists of the following parts, under the general title *Information technology* — Open Systems Interconnection — Connection-oriented presentation protocol:

- Part 1: Protocol specification
- Part 2: Protocol Implementation Conformance Statement (PICS) proforma

Annex A forms an integral part of this part of ISO/IEC 8823. Annex B is for information only.

Introduction

This Recommendation I International Standard is one of a set of Recommendations I International Standards produced to facilitate the interconnection of information processing systems. It is related to other Recommendations and International Standards in the set as defined by the Reference Model for Open Systems Interconnection (see ITU-T Rec. X.200 | ISO/IEC 7498-1). The Reference Model subdivides the area of standardization for interconnection into a series of layers of specification, each of manageable size.

The goal of Open Systems Interconnection is to allow, with a minum of technical agreement outside the interconnection standards, the interconnection of information processing systems:

- from different manufacturers;
- under different managements;
- of different levels of complexity; and
- of different technologies.

ITU-T Rec. X.226 | ISO/IEC 8823-1 specifies the connection-oriented presentation protocol. It specifies a common encoding and a number of functional units of presentation protocol procedures to be used to meet the needs of presentation-service-users.

To evaluate the conformance of a particular implementation, it is necessary to have a description of the capabilities and options which have been implemented. Such a description is called a Protocol Implementation Conformance Statement (PICS).

This Recommendation | International Standard includes the PICS proforma for the connection-oriented presentation protocol as defined in ITU-T Rec. X.226 | ISO/IEC 8823-1.

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – CONNECTION-ORIENTED PRESENTATION PROTOCOL: PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS) PROFORMA

1 Scope

This Recommendation | International Standard provides the Protocol Implementation Conformance Statement (PICS) proforma for the connection-oriented presentation protocol specified in ITU-T Rec. X.226 | ISO/IEC 8823-1. This PICS proforma is in compliance with the relevant requirements, and in accordance with the relevant guidance, given in ITU-T Rec. X.296 | ISO/IEC 9646-7. Detail of the use of this proforma is provided in this Recommendation | International Standard.

The supplier of an implementation which is claimed to conform to ITU-T Rec. X.226 | ISO/IEC 8823-1 is required to complete a copy of the PICS proforma provided in Annex A, and is required to provide the information necessary to identify both the supplier and the implementation.

2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and the parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

2.1 Identical Recommendations | International Standards

- ITU-T Recommendation X.200 (1994) | ISO/IEC 7498-1:1994, Information technology Open Systems Interconnection Basic Reference Model: The Basic Model.
- ITU-T Recommendation X.215 (1995) | ISO/IEC 8326:1996, Information technology Open Systems Interconnection – Session service definition.
- ITU-T Recommendation X.226 (1994) | ISO/IEC 8823-1:1994, Information technology Open Systems Interconnection Connection-oriented presentation protocol: Protocol specification.
- ITU-T Recommendation X.680 (1994) | ISO/IEC 8824-1:1995, Information technology Abstract Syntax Notation One (ASN.1): Specification of basic notation.
- ITU-T Recommendation X.690 (1994) | ISO/IEC 8825-1:1995, Information technology ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER).

2.2 Paired Recommendations | International Standards equivalent in technical content

 ITU-T Recommendation X.290 (1995), OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts.

ISO/IEC 9646-1:1994, Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts.

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- ITU-T Recommendation X.296 (1995), OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications - Implementation conformance statements.
 - ISO/IEC 9646-7:1995, Information technology Open Systems Interconnection Conformance testing methodology and framework – Part 7: Implementation Conformance Statements.
- CCITT Recommendation X.650 (1992), Open Systems Interconnection (OSI) Reference Model for naming and addressing.

ISO 7498-3:1989, Information processing systems - Open Systems Interconnection - Basic Reference Model - Part 3: Naming and addressing.

2.3 Additional references

CCITT Recommendation X.410 (1984), Message handling systems: Remote operations and reliable transfer server.

For the purposes of this Recommendation | International Standard, the following definitions apply

3.1 Terms defined in ITU-T Rec. V 2221111 X.290 | ISO/IEC 9646-1
.... mplementation conformance statement;
Protocol Implementation Conformance Statement (PICS);
PICS proforma.

itional terms

lequestor: the PP'

3.2 Terms defined in ITU-T Rec. X.290 | ISO/IEC 9646-1

3.3 Additional terms

- Acceptor: the PPM that accepts a particular action.

4 **Abbreviations**

Abstract Syntax Notation One ASN.1

ICS Implementation Conformance Statement

PCI Protocol Control Information

PDV Presentation Data Value

Protocol Implementation Conformance Statement PIC8

Presentation Protocol Data Unit **PPDU**

5 Conformance

A conforming PICS proforma shall be technically equivalent to the ITU-T | ISO/IEC published PICS proforma and shall preserve the numbering and ordering of the items in the ITU-T | ISO/IEC PICS proforma.

A PICS which conforms to this Recommendation | International Standard shall:

- describe an implementation which conforms to ITU-T Rec. X.226 | ISO/IEC 8823-1;
- be a conforming PICS proforma, which has been completed in accordance with the instruction for completion given in A.2;
- include the information necessary to uniquely identify both the supplier and the implementation.

Annex A1)

Protocol Implementation Conformance Statement (PICS) proforma for the connection-oriented presentation protocol

(This annex forms an integral part of this Recommendation | International Standard)

A.1 Identification of PICS proforma corrigenda

The supplier of the PICS proforma shall identify any corrigenda (i.e. Technical corrigenda or equivalent) to the published proforma that have been applied. Suppliers of the proforma should modify the proforma, or attach relevant additional pages in order to apply the corrigenda, and then record the application of the corrigenda in Table A.1.

Table A.1

Identification of corrigenda applied to this PICS proforma	ITU-T Rec. X.246 (1994) ISO/IEC 8823-2:1995
	Corr:
	Corr:
	Corr:

A.2 Instructions

A.2.1 Purpose and structure of the proforma

The purpose of this PICS proforma is to provide suppliers of implementations of ITU-T Rec. X.226 | ISO/IEC 8823-1 with a consistent means of stating which capabilities have been implemented.

The proforma is in the form of a questionnaire and consists of a set of items. An item is provided for each capability for which an implementation choice is allowed. Items are also provided for major mandatory capabilities for which no implementation choice is allowed. Each item includes an item number, an item description, a status value specifying the support requirement, and room for a support answer to be provided by the supplier.

This subclause provides general information and instructions for completion of the proforma.

Subclause A.3 is for identification of the implementation.

Subclause A.4 contains the means of specifying, at a high level, the protocol and corrigenda that have been implemented.

Subclause A.5 contains the global statement of conformance.

Subclause A.6 onwards contain tables in which the supplier specifies details of the implementation options chosen.

A.2.2 Symbols, terms and abbreviations

A.2.2.1 Introduction

Notations have been introduced in order to reduce the size of tables in the PICS proforma. These have allowed the use of multi-column layout where the columns are headed 'Status', and 'Support'. The definition of each is given below.

Additionally, the following definitions apply:

A.2.2.1.1 (PICS) item: A row in a PICS proforma table.

A.2.2.1.2 (PICS) question: The question to be answered in the intersection of a PICS item and either a support column (i.e. "Is this item supported in the context applying to this table and column") or supported values column (i.e. "What values are supported for this item in the context applying to this table and column") in a PICS proforma table.

¹⁾ Copyright release for PICS proforma

Users of this Recommendation | International Standard may freely reproduce the PICS proforma in this annex so that it can be used for its intended purpose and may further publish the completed PICS.

- A.2.2.1.3 status (value): An allowed entry in the status column for an item in a PICS proforma table.
- A.2.2.1.4 (support) answer: An allowed entry in the support or supported values columns for an item in a PICS, in answer to a PICS question.

A.2.2.2 Prerequisite notation

If a predicate applies to a whole ICS proforma table, a prerequisite line may be specified in front of the table to which it applies. A prerequisite line takes the form:

The meaning of such a line is that if cpredicate is True, then the table applies, else it is not-applicable.

A.2.2.3 Item numbering

Each line within the PICS proforma which requires implementation detail to be entered is given an item number in the first column. The item number column provides a means of uniquely referencing each possible answer within the PICS proforma. Such referencing is necessary for specifying predicates, conditional expressions, test suite parameters, and test suite selection expressions.

The means of referencing individual answers is to specify the following sequence:

- a) If, and only if, the reference is being made from another Specification, then start with an unambiguous identifier for the relevant ICS proforma specification, enclosed in parentheses this identifier is stated in the PICS proforma specification and is updated whenever the PICS proforma is updated it is recommended that this identifier be the relevant Specification number and year of publication, as is used in a Normative references clause, and this is the default for such identifiers.
- b) The number of the relevant table or, if the tables are not numbered, of the smallest subclause enclosing the relevant table.
- c) A solidus character, "/".
- d) The item number or mnemonic reference to the item, to identify the row in which the answer appears.
- e) If, and only if, more than one question occurs in the row identified by the item number or mnemonic reference, then each possible answer is implicitly labelled a, b, c, etc., from left to right, and this letter is appended to the sequence, prefixed by a solidus character ("/") if a mnemonic reference is used.

If mnemonic references are specified and each uniquely identify an item in the PICS proforma, then entries b) and c) in the above sequence may be omitted.

A.2.2.4 Status column

'Status' as defined in ITU-T Rec. X.226 | ISO/IEC 8823-1. This column indicates the level of support required for conformance to ITU-T Rec. X.226 | ISO/IEC 8823-1.

A.2.2.4.1 Definitions applying to the table in A.7

The values are as follows:

- 'm' Mandatory support is required.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.226 | ISO/IEC 8823-1. If implemented, it must conform to the specifications and restrictions contained in ITU-T Rec. X.226 | ISO/IEC 8823-1. These restrictions may affect the optionality of other items.
- 'o.n' Selectable options among a set of items (where n is the number which identifies the group of optional items that are grouped together). The definitions for the qualified optional statements used are written under the tables, and are indexed in Annex B.
- 'cn' The item is conditional (where n is the number which identifies the condition which is applicable). The definitions for the conditional statements used are written under the tables, and are indexed in Annex B.
- 'n/a' The item is not applicable.

If support is claimed for the sending of a PPDU, then the implementation shall be able to:

- build the PPDU (i.e. build correctly the heading, all mandatory parameters, and all supported optional parameters) in the situations required by the protocol specification;
- encode the PPDU according to a valid encoding format.

If support is claimed for receiving of a PPDU, then the implementation shall be able to:

syntactically identify the PPDU and parse all valid instances of the PDU, including all valid PDU
parameters. Supporting the receipt of a PDU whilst having no ability to parse one of its valid parameters
is non-conformant.

A.2.2.4.2 Definitions applying to the tables in A.8

The values for the sender of a PDU are as follows:

- 'm' Mandatory support is required. The implementation shall be able to build and encode this parameter within the PPDU.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.236 | ISO/IEC 9576-1.
- 'cn' The item is conditional (where n is the number which identifies the condition which is applicable). The definitions for the conditional statements used are written under the tables, and are indexed in Annex B.
- 'n/a' The item is not applicable.

The values for the receiver of a PDU are as follows:

- 'm' Mandatory support is required. The implementation shall be able to parse this parameter within the PPDU, and also perform the actions required by the semantics of the parameter.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.236 | ISO/IEC 9576-1. If support is claimed, the implementation shall support the semantics of the parameter.
- 'cn' The item is conditional (where n is the number which identifies the condition which is applicable). The definitions for the conditional statements used are written under the tables, and are indexed in Annex B.
- 'n/a' The item is not applicable.

A.2.2.5 Support column

The 'Support' column shall be completed by the supplier or implementor to indicate the level of implementation of each feature. The proforma has been designed such that the only entries required in the 'Support' column are:

- 'Y' Yes, the feature has been implemented.
- 'N' No, the feature has not been implemented.
- '-' No answer required it is unnecessary to answer the question with a Yes or a No because the question has a status value of not-applicable.

A.2.3 Instructions for completion

The supplier shall complete all entries in the column marked 'Support'. In certain clauses of the PICS proforma further guidance for completion may be necessary. Such guidance shall supplement the guidance given in this A.2 and shall have a scope restricted to the clause in which it appears. In addition, other specifically identified information shall be provided by the implementor where requested. No changes shall be made to the proforma except the completion as required. Recognizing that the level of detail required may, in some instances, exceed the space available for responses, a number of responses specifically allow for the addition of appendices to the PICS.

A.3 Identification of the implementation

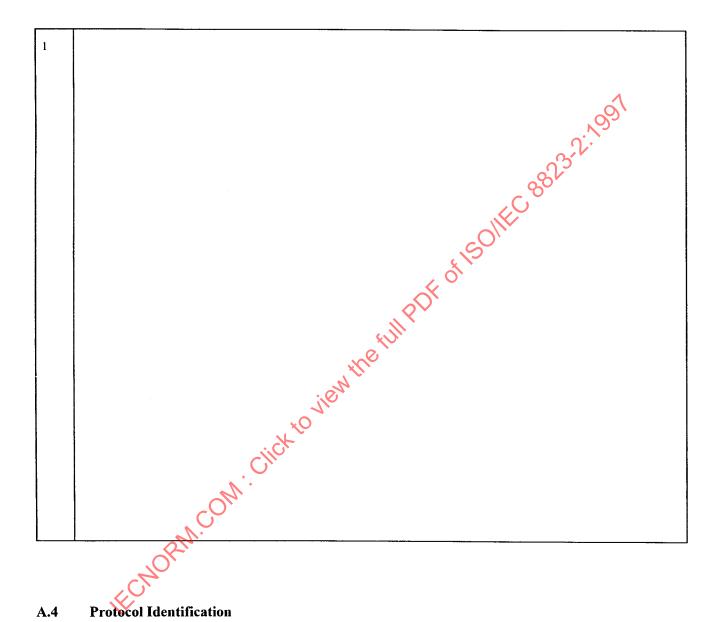
A.3.1 Date of statement

1	Date of statement? (yy-mm-dd)

A.3.2 Implementation details

The supplier of the protocol implementation shall specify the information necessary to uniquely identify the implementation and the system in which it may reside. This may include details of:

- supplier, implementation name, operating system, suitable hardware;
- b) system supplier and/or client of the test laboratory that is to test the implementation;
- information on whom to contact if there are queries concerning the content of the PICS.



A.4 Protocol Identification

ITU-T Rec. X.226 | ISO/IEC 8823-1 protocol details A.4.1

	Identification of Protocol Specification	Support
1	ITU-T Rec. X.226 (1994) ISO/IEC 8823-1:1994	
2		
3		
4		

ITU-T Rec. X.226 | ISO/IEC 8823-1 technical corrigenda implemented A.4.2

Identification of corrigenda applied to the implementation	ITU-T Rec. X.226 (1994) ISO/IEC 8823-1:1994
applied to the implementation	Corr:
	Corr:
	Corr:
	Corr:
	Corr:

Global statement of conformance **A.5**

1	Are all mandatory features implemented? (Yes or No)	0	V)	
		<u>-07</u>			

Protocol mechanisms and functional units **A.6**

A.6.1 Protocol mechanisms

NOTE – If a positive response is not given to this box, then the implementation does not conform to ITU-T Rec. X.226 ISO/IEC 8823-1.								
A.6	Protocol mechanisms and functional units	of of						
A.6.1 Protocol mechanisms								
	Mode	Status	Support	Mnemonic				
1	X.410 (1984)	o.1						
2	Normal	0.1						
o.1:	either Normal mode or X.410 (1984) mode or both shall be remainder of the proforma shall be ignored.	supported. If o	nly X.410 (1984) t	node is supported, then the				

A.6.2

	Presentation functional units	Status	Support	Mnemonic
1	Kernel	m		
2	Presentation Context Management	0		P-FU(CM)
3	Presentation Context Restoration	с0		P-FU(CR)
c0:	if [P-FU(CM)] then o else n/a.			

	Pass through to Session functional units	Status	Support	Mnemonic
4	Negotiated Release	0		S-FU(NR)
5	Half Duplex	0.2		S-FU(HD)
6	Duplex	0.2		S-FU(FD)
7	Expedited Data	0		S-FU(EX)
8	Typed Data	0		S-FU(TD)
9	Capability Data Exchange	cl		S-FU(CD)
10	Minor Synchronize	0		S-FU(SY)
11	Symmetric Synchronize	0		S-FU(SS)
12	Data Separation	0		S-FU(DS)
13	Major Synchronize	0		S-FU(MA)
14	Resynchronize	0	C.	S-FU(RESYNC)
15	Exceptions	c2	INF	S-FU(EXCEP)
16	Activity Management	0	SO	S-FU(ACT)

pass through for at least one of the Session functional units Duplex and Half Duplex shall be supported. if [S-FU(ACT)] then o else n/a. if [S-FU(HD)] then o else n/a. o.2:

A.7.1

A.7.1.1 Supported roles

A.7.1.1.1 Presentation connection

	Role	Status	Support	Mnemonic
1	Initiator	0.3		P-CON_initiator
2	Responder	0.3		P-CON_responder
o.3:	a conforming implementation shall support at least one o	f the above roles.		

A.7.1.1.2 Normal data

:	Role	Status	Support	Mnemonic
1	Requestor	0		P-DATA_requestor
2	Acceptor	0		P-DATA_acceptor

c1: c2:

Elements of procedure related to the PICS

Kernel functional unit

Supported roles

Presentation connection **A.7**

A.7.1.1.3 Orderly release

	Role	Status	Support	Mnemonic
1	Requestor	0		P-REL_requestor
2	Acceptor	O		P-REL_acceptor

A.7.1.2 Supported PPDUs associated with the kernel services

	PPDU	Sender		Receiver		Reference	Comment
		Status	Support	Status	Support	200	
1	СР	c3		c4		90	
2	СРА	c4		c3		K	
3	CPR	c4		c3	S		
4	ARP	m		m	, 01		
5	ARU	o		m	X		
6	TD	c5		c 6			
c3: c4: c5:	if [P-CON_initiator] ther if [P-CON_responder] th if [P-DATA_requestor] t	n m else n/a. en m else n/a. hen m else n/a	n. , **	refo			

c6: if [P-DATA_acceptor] then m else n/a.

A.7.2 Presentation context management functional unit

Prerequisite: P-FU(CM)

A.7.2.1 Supported roles

Does the implementation support the Context Management functional unit as:

	Role	Status	Support Mnemonic
1	Requestor	0.4	P-ALTER-C_requestor
2	Acceptor	0.4	P-ALTER-C_acceptor

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A.7.2.2 Supported PPDUs associated with the context management services

	PPDU	Ser	nder	Rec	eiver	Reference	Comment
		Status	Support	Status	Support		
1	AC	с7		с8			
2	ACA	c8		с7			
c7: c8:	if [P-ALTER-C_requestor if [P-ALTER-C_acceptor] then m else] then m else ı	n/a. n/a.			* .	

A.7.3 Presentation context restoration functional unit

No additional PPDUs.

A.7.4 Pass through to session functional units

A.7.4.1 Negotiated Release

The role supported by the implementation for the Session Negotiated Release functional unit is the same as for the Orderly Release.

A.7.4.2 Half Duplex

Prerequisite: S-FU(HD)

		Role	Status	Support	Mnemonic
1	Requestor	ijo	m		
2	Acceptor	120	m		

A.7.4.3 Duplex

There is no additional pass through functionality associated with this Session functional unit. This subclause is present for completeness only.

A.7.4.4 Expedited Data

Prerequisite: S-FU(EX)

	Role	Status	Support	Mnemonic	
1	Requestor	0.5		S-XDATA_requestor	
2	Acceptor	0.5		S-XDATA_acceptor	
o.5: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

A.7.4.5 Typed Data

Prerequisite: S-FU(TD)

	Role	Status	Support	Mnemonic	
1	Requestor	0.6		S-TDATA_requestor	
2	Acceptor	0.6		S-TDATA_acceptor	
o.6: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

A.7.4.6 Capability Data

Prerequisite: S-FU(CD)

	Role	Status	Support	Mnemonic		
1	Requestor	0.7		S-CAP_requestor		
2	Acceptor	0.7		S-CAP_acceptor		
0.7:	o.7: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

A.7.4.7 Minor Synchronize

		III PO		
A.7.4 Prere	quisite: S-FU(SY)	le jo		
	Role Role	Status	Support	Mnemonic
1	Requestor	0.8		S-MIN_requestor
	Acceptor	0.8		S-MIN_acceptor
2	ricceptor		1	

A.7.4.8 Symmetric Synchronize

Prerequisite: S-FU(SS)

	Role	Status	Support	Mnemonic
1	Requestor	m		
27	Acceptor	m		

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A.7.4.9 Data Separation

Prerequisite: S-FU(DS)

	Role	Status	Support	Mnemonic
1	Requestor	m		
2	Acceptor	m		

A.7.4.10 Major Synchronize

Prerequisite: S-FU(MA)

	Role	Status	Support	Mnemonic
1	Requestor	0.9	NE O	S-MAJ_requestor
2	Acceptor	0.9	·20/	S-MAJ_acceptor
0.9:	a conforming implementation shall support at least one of the a	bove roles if the	pass through f	unctional unit is supported.

A.7.4.11 Resynchronize

0.9:	o.9: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					
		(III POF				
A.7.4	.11 Resynchronize	ve in				
Prere	quisite: S-FU(RESYNC)	hefully				
	Role	Status	Support	Mnemonic		
1	Requestor	m				
2	Acceptor	m				

A.7.4.12 Exceptions

Prerequisite: S-FU(EXCEP)

	Role	Status	Support	Mnemonic
1	Requestor	m		
2	Acceptor	m		

A.7.4.13 Activity Management

Prerequisite: S-FU(ACT)

A.7.4.13.1 Activity start

	Role	Status	Support	Mnemonic	
1	Requestor	0.10		S-ACTS_requestor	
2	Acceptor	0.10		S-ACTS_acceptor	
o.10: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

A.7.4.13.2 Activity resume

	Role	Status	Support	Mnemonic	
1	Requestor	o.11	90	S-ACTR_requestor	
2	Acceptor	o.11	\C\(\dots\)	S-ACTR_acceptor	
o.11: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

A.7.4.13.3 Activity interrupt

	Role	Status	Support	Mnemonic
1	Requestor	0.12		S-ACTI_requestor
2	Acceptor	o.12		S-ACTI_acceptor
o.12:	a conforming implementation shall support at least one of the a	bove roles if the	e pass through f	unctional unit is supported.

A.7.4.13.4 Activity discard

	Role	Status	Support	Mnemonic		
1	Requestor	o.13	-	S-ACTD_requestor		
2	Acceptor	o.13		S-ACTD_acceptor		
o.13:	o.13: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

A.7.4.13.5 Activity end

	Role	Status	Support	Mnemonic		
1	Requestor	0.14		S-ACTE_requestor		
2	Acceptor	o.14		S-ACTE_acceptor		
o.14:	o.14: a conforming implementation shall support at least one of the above roles if the pass through functional unit is supported.					

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A.7.4.13.6 Give tokens confirm

	Role	Status	Support	Mnemonic
1	Requestor	0		S-GTC_requestor
2	Acceptor	O		S-GTC_acceptor

A.8 Supported PPDU parameters

A.8.1 Connect presentation (CP) PPDU

	Parameter		Sen	der	Receiver	
			Status	Support	Status	Support
1	Calling presentation selector		с9		Q12'	
2	Called presentation selector		с9		c12	
3	Mode selector		c 3		c4	
4	Presentation context definition list		с9	, S	c4	
5	Default context name		c9	₹ o,	c12	
6	Protocol version		c9 ?)	c4	
7	Presentation requirements		9111		c14	
8	User session requirements		W c10		c12	
9	User data	; 0	6 9		c4	
10	CPC Type	*0	c11		c12	

c3: if [P-CON_initiator] then m else n/a.
c4: if [P-CON_responder] then m else n/a.
c9: if [P-CON_initiator] then o else n/a.
c10: if [P-CON_initiator] then o else n/a.
c11: if [P-CON_initiator] then o else n/a.
c12: if [P-CON_responder] then o else n/a.
c13: if [P-CON_responder] then o else n/a.

if [P-CON_responder] then o else n/a.
if [not P-CON_responder] then n/a else if [P-FU(CM)] then m else o. c14:

Connect presentation accept (CPA) A.8.2

	Parameter	Se	Sender		ver
	1 diamotos	Status	Support	Status	Support
1	Responding presentation selector	c12		с9	
2	Mode selector	c4		с3	
3	Presentation context definition result list	c4		c15	
4	Protocol version	c12		c3	
5	Presentation requirements	c14		c16	1
6	User session requirements	c13		c17	
7	User data	c12		c3	
c3: c4: c9: c12: c13: c14: c15: c16: c17:	if [P-CON_initiator] then m else n/a. if [P-CON_responder] then m else n/a. if [P-CON_initiator] then o else n/a. if [P-CON_responder] then o else n/a. if [P-CON_responder and P-FU(CM)] then o else if [not P-CON_responder] then n/a else if [P-FU if [P-CON_initiator and A.8.1/4a] then m else n/a if [P-CON_initiator and A.8.1/7a] then o else n/a if [P-CON_initiator and A.8.1/8a] then o else n/a		o. Of ISOIIEC	38 P. J.	
A.8.3	Connect presentation reject (CPR) PPDU	Withe full POP			

- c4:
- c9:
- c12:
- if [P-CON_responder] then m else n/a.
 if [P-CON_responder] then o else n/a.
- if [not P-CON_responder] then n/a else if [P-FU(CM)] then m else o. if [P-CON_initiator and A.8.1/4a] then m else n/a. c14:
- c15:
- c16:
- if [P-CON_initiator and A.8.1/7a] then o else n/a. if [P-CON_initiator and A.8.1/8a] then o else n/a. c17:

Connect presentation reject (CPR) PPDU A.8.3

	Parameter	Ser	Sender		eiver
	ck.le	Status	Support	Status	Support
1	Responding presentation selector	c12		с9	
2	Presentation context definition result list	c4		cll	
3	Protocol version	c12		с9	
4	Default context result	c12		c18	
5	Provider reason	c12		с9	
6	User data	c12		с9	

- if [P-CON_responder] then m else n/a.
- if [P-CON_initiator] then o else n/a. c9:
- if [P-CON_initiator and A.8.1/4a] then o else n/a. c11:
- if [P-CON_responder] then o else n/a. c12:
- if [P-CON_initiator and A.8.1/5a] then o else n/a. c18:

ISO/IEC 8823-2:1997 (E)

A.8.4 Abnormal release user (ARU) PPDU

	Parameter	Sen	der	Receiver	
		Status	Support	Status	Support
1	Presentation context identifier list	0		0	
2	User data	o		0	

Abnormal release provider (ARP) PPDU A.8.5

	Parameter	Sen	der	Receiver	
		Status	Support	Status Support	
1	Provider reason	0		87.J.	
2	Event identifier	o		2018	

A.8.6 Alter context (AC) PPDU

Prerequisite: P-FU(CM)

	Parameter	Sei	Sender		eiver
		Status	Support	Status	Support
1	Presentation context addition list	c19		с8	
2	Presentation context deletion list	c19		c8	
3	User data	c19		c20	

if [P-ALTER-C_requestor] then o else n/a. if [P-ALTER-C_acceptor] then o else n/a. c19: c20:

Alter context acknowledge (ACA) PPDU A.8.7

Prerequisite: P-FU(CM)

	Parameter	Sen	nder	Rec	eiver
		Status	Support	Status	Support
1	Presentation context addition result list	c8		c21	
2	Presentation context deletion result list	c8		c22	
3	User data	c20		c19	

if [P-ALTER-C_acceptor] then m else n/a. if [P-ALTER-C_requestor] then o else n/a. if [P-ALTER-C_acceptor] then o else n/a. c8:

c19:

c20:

if [A.8.6/1a] then m else n/a. c21:

if [A.8.6/2a] then m else n/a. c22:

A.8.8 Presentation data (TD) PPDU

	Parameter	Se	nder	Receiver	
		Status	Support	Status	Support
1	User data	c5		c6	
c5: c6:	if [P-DATA_requestor] then m else n/a. if [P-DATA_acceptor] then m else n/a.				

A.8.9 Presentation typed data (TTD) PPDU

Prerequisite: S-FU(TD)

	Parameter	Sender		Receiver	
		Status	Support	Status	Support
1	User data	c23	NE NE	c24	
c23: c24:	if [S-TDATA_requestor] then m else n/a. if [S-TDATA_acceptor] then m else n/a.		" (20),		

A.8.10 Expedited data (TE) PPDU

Prerequisite: S-FU(EX)

		Parameter	Se	nder	Rec	eiver
		× 10	Status	Support	Status	Support
1	User data	Clic	c25		c26	
c25: c26:	if [S-XDATA_ if [S-XDATA_	requestor I then in else n/a. acceptor I then in else n/a.				

A.8.11 Capability data (TC) PPDU

Prerequisite: S-FU(CD)

	Parameter	Sender		Receiver	
		Status	Support	Status	Support
1	User data	c27		c28	
c27: c28:	if [S-CAP_requestor] then m else n/a. if [S-CAP_acceptor] then m else n/a.				

A.8.12 Capability data acknowledge (TCC) PPDU

Prerequisite: S-FU(CD)

	Parameter	Sender		Receiver	
		Status	Support	Status	Support
1	Uscr data	c28		c27	
c27: c28;	if [S-CAP_requestor] then m else n/a. if [S-CAP_acceptor] then m else n/a.				

A.8.13 Resynchronize (RS) PPDU

Prerequisite: S-FU(RESYNC)

	Parameter	Sender Rec			ceiver	
		Status	Support	Status	Support	
1	Presentation context identifier list	c48		c48		
2	User data	9		0		
c48:	if [P-FU(CR)] then o else n/a.	S. S			1	

A.8.14 Resynchronize acknowledge (RSA) PPDU

Prerequisite: S-FU(RESYNC)

	Parameter	Sender		Receiver	
	OSTA.	Status	Support	Status	Support
1	Presentation context identifier list	c48		c48	
2	User data	0		0	
c48:	if [P-FU(CR)] then o else n/a.				