

INTERNATIONAL STANDARD

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8327-2

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

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



Reference number
ISO/IEC 8327-2:1996(E)

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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 8327-2 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.245.

ISO/IEC 8327 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — Connection-oriented Session 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 8327. Annexes B and C are for information only.

Introduction

This Recommendation | International Standard is one of a set of Recommendations | 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 minimum 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.225 | ISO/IEC 8327-1 specifies the Connection-Oriented Session Protocol.

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 Session Protocol as defined in ITU-T Rec. X.225 | ISO/IEC 8327-1.

INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – CONNECTION-ORIENTED SESSION 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 Session protocol specification ITU-T Rec. X.225 | ISO/IEC 8327-1. This PICS proforma is in compliance with the relevant requirements, and in accordance with the relevant guidance for a PICS proforma, 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.225 | ISO/IEC 8327-1 is required to complete a copy of the PICS proforma provided in Annex A, and is required to provide the information necessary to uniquely 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 agreement 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 Telecommunications 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.214 (1993) | ISO/IEC 8072:1994, *Information technology – Open Systems Interconnection – Transport service definition*.
- ITU-T Recommendation X.215 (1995) | ISO/IEC 8326:1996, *Information technology – Open Systems Interconnection – Session service definition*.
- ITU-T Recommendation X.225 (1995) | ISO/IEC 8327-1:1996, *Information technology – Open Systems Interconnection – Connection-oriented Session protocol – Protocol specification*.

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*.

- 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*.

3 Definitions

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

- 3.1 Terms defined in ITU-T Rec. X.225 | ISO/IEC 8327-1.
- 3.2 The following terms defined in ITU-T Rec. X.290 | ISO/IEC 9646-1:
- a) Protocol Implementation Conformance Statement (PICS);
 - b) PICS proforma.
- 3.3 Additional terms:
- Requestor: the SPM that initiates a particular action;
 - Acceptor: the SPM that accepts a particular action.

4 Abbreviations

- 4.1 Abbreviations are given in ITU-T Rec. X.225 | ISO/IEC 8327-1 and in clause 8.
- 4.2 This Recommendation | International Standard makes use of the following abbreviation given in ITU-T Rec. X.290 | ISO/IEC 9646-1:
- PICS.
- 4.3 For the purposes of this Recommendation | International Standard, the following abbreviations also apply:
- | | |
|------------|----------------|
| Sts | Status column |
| Spt | Support column |
| Sdr | Sender |
| Rcv | Receiver |

5 Conformance

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

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

- a) describe an implementation which conforms to ITU-T Rec. X.225 | ISO/IEC 8327-1;
- b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in A.2;
- c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A

Protocol Implementation Conformance Statement (PICS) Proforma for the Connection-Oriented Session Protocol¹⁾

(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 the table below.

Identification of corrigenda applied to this PICS proforma	ITU-T Rec. X.245 (1995) ISO/IEC 8327-2:1996 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 implementation of ITU-T Rec. X.225 | ISO/IEC 8327-1 with a consistent means of stating which capabilities have been implemented.

The proforma is in 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 clause 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 high level, the protocol and corrigenda that have been implemented.

Subclause A.5 contains the global statement of conformance.

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

NOTE – Throughout the PICS proforma, tables specifying Requestor and Acceptor roles are inserted as required for precise definition of the status of SPDUs and SPDU parameters, but these tables shall not be used for static conformance review nor for test case selection.

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', 'Support', 'Value', 'Mnemonic' and 'Length'. The definition of each are given below.

Additionally, the following definitions apply.

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

¹⁾ Copyright release for PICS proformas: 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.2.2.1.2 (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.

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 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 should be 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.2.2.3 Status column

This column indicates the level of support required for conformance to ITU-T Rec. X.225 | ISO/IEC 8327-1, the given values are taken from the Session Protocol Specification (see ITU-T Rec. X.225 | ISO/IEC 8327-1).

A.2.2.3.1 Definitions applying to the tables in clauses A.4 to A.6

The values are as follows:

- 'm' Mandatory support is required. The implementation shall support the functionalities described in ITU-T Rec. X.225 | ISO/IEC 8327-1 for the specified item.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.225 | ISO/IEC 8327-1. According to some specific reason, the implementation is not obliged to support the specified item. If implemented, it shall conform to the specifications and restrictions contained in ITU-T Rec. X.225 | ISO/IEC 8327-1. Therefore the constraints described for the mandatory support above also apply.
- 'o.n' Selectable options among a set of items (where *n* is the number which identifies the group of optionals which are linked together). The implementation shall support at least one of the given items. [For the selected item(s), the constraints described for the mandatory support above also apply.]
- 'cn' The item is conditional (where *n* is the number which identifies the condition which is applicable). The definitions for the conditional statements used in Annex A are written under the table where they are used, and indexed in Annex B.
- 'n/a' The item is not applicable.

A.2.2.3.2 Definitions applying to the tables in clause A.7 (Supported SPDUs)

The values are as follows:

Sender item:

- 'm' Mandatory support is required. The implementation shall be able:
 - to build the SPDU (i.e. to build correctly the heading and all the mandatory parameters within the SPDU) in the situations required by the Protocol Machine; and
 - to encode the SPDU into the TSDU, according to a valid encoding format.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.225 | ISO/IEC 8327-1. According to some specific reason, the implementation is not obliged to be able to build the SPDU. If implemented, it shall conform to the specifications and restrictions contained in ITU-T Rec. X.225 | ISO/IEC 8327-1. Therefore the constraints described for the mandatory support above also apply.
- 'o.n' Selectable options among a set of items (where *n* is the number which identifies the group of optionals which are linked together). The implementation shall support at least one of the given items. [For the selected item(s), the constraints described for the mandatory support above also apply.]
- 'cn' The item is conditional (where *n* is the number which identifies the condition which is applicable). The definitions for the conditional statements used in Annex A are written under the table where they are used, and indexed in Annex B. Resolution of the condition (e.g. depending on protocol version, protocol mechanism, etc.) yields to 'm', 'o' or 'n/a'.
- 'n/a' The item is not applicable.

Receiver item:

- 'm' Mandatory support is required. The implementation shall be able:
 - to syntactically identify the SPDU [i.e. to decode the heading and all of the parameters which are present (Type and Length in TLV coding scheme)]; and
 - to process it correctly.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.225 | ISO/IEC 8327-1. If implemented, it shall conform to the specifications and restrictions contained in ITU-T Rec. X.225 | ISO/IEC 8327-1. Therefore the constraints described for the mandatory support above also apply.
- 'o.n' Selectable options among a set of items (where *n* is the number which identifies the group of optionals which are linked together). The implementation shall support at least one of the given items. [For the selected item(s), the constraints described for the mandatory support above also apply.]
- 'cn' The item is conditional (where *n* is the number which identifies the condition which is applicable). The definitions for the conditional statements used in Annex A are written under the table where they are used, and indexed in Annex B. Resolution of the condition (e.g. depending on protocol version, protocol mechanism, etc.) yields to 'm', 'o' or 'n/a'.
- 'n/a' The item is not applicable.

A.2.2.3.3 Definitions applying to the tables in clause A.8 (Supported SPDU parameters)

NOTE – The status indicated for the parameters reflects static conformance requirements. The details about the use of these parameters in specific instances of communications (i.e. dynamic conformance) are to be found in the Session protocol standard (ITU-T Rec. X.225 | ISO/IEC 8327-1). It is reminded that a parameter with the Length equal to zero shall be considered as absent.

The values are as follows:

Sender item:

- 'm' Mandatory support is required. The implementation shall be able to build and to encode this parameter within the appropriate SPDU.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.225 | ISO/IEC 8327-1. According to some specific reason, the implementation is not obliged to be able to build the parameter. If implemented, it shall conform to the specifications and restrictions contained in ITU-T Rec. X.225 | ISO/IEC 8327-1. Therefore the constraints described for the mandatory support above also apply.

- 'cn' The item is conditional (where *n* is the number which identifies the condition which is applicable). The definitions for the conditional statements used in Annex A are written under the table where they are used, and indexed in Annex B. Resolution of the condition (e.g. depending on protocol version, protocol mechanism, etc.) yields to 'm', 'o' or 'n/a'.
- 'n/a' The item is not applicable.

Receiver item:

- 'm' Mandatory support is required. The implementation shall be able to syntactically and semantically identify the SPDU parameter and to process it correctly.
- 'o' Optional support is permitted for conformance to ITU-T Rec. X.225 | ISO/IEC 8327-1. If implemented, it shall conform to the specifications and restrictions contained in ITU-T Rec. X.225 | ISO/IEC 8327-1. Therefore the constraints described for the mandatory support above also apply.
- 'cn' The item is conditional (where *n* is the number which identifies the condition which is applicable). The definitions for the conditional statements used in Annex A are written under the table where they are used, and indexed in Annex B. Resolution of the condition (e.g. depending on protocol version, protocol mechanism, etc.) yields to 'm', 'o' or 'n/a'.
- 'n/a' The item is not applicable.

A.2.2.4 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:

If the Status column yields to 'm' or 'o', the following answers are valid:

- 'Y' Yes, the feature has been implemented.
- 'N' No, the feature has not been implemented.

If the Status column yields to 'n/a', the unique following answer is valid:

- '–' Not applicable.

A.2.2.5 Value column

The 'Value' column requires the specification of the range of values implemented for a feature, where relevant.

A.2.2.6 Mnemonic column

The 'Mnemonic' column is given to facilitate the interpretation of the conditional statements throughout the PICS proforma.

The mnemonics are designed so that the implementor should easily understand their contents. Their names are generated as follows:

- a) a character identifying the Session layer (S);
- b) an hyphen character;
- c) a sequence of character which is derived, where possible, from the abbreviations used in the Session protocol specification.

A full alphanumerical list of all the defined 'Mnemonics' is given in Annex C.

A.2.2.7 Length column

The 'Length' column is given for information only in A.8, in order to indicate a specific length requirement for a parameter. Otherwise, it is recommended not to fill in this column.

If values are given in the 'Support' columns (Sender and/or Receiver), they shall conform to the value(s) given in the 'Status' column.

The values are as follows:

- 'x' A specific number of octets is given in ITU-T Rec. X.225 | ISO/IEC 8327-1.
- '0-y' A range of number of octets is given in ITU-T Rec. X.225 | ISO/IEC 8327-1.
- 'see Ref.' For a specific reason (total length of the SPDU), an explicit range of number of octets can not be given in the PICS proforma. For more details, the implementor shall refer to ITU-T Rec. X.225 | ISO/IEC 8327-1.

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 clause 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. Recognising 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:

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

1	
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A.4 Protocol Identification**A.4.1 ITU-T Rec. X.225 | ISO/IEC 8327-1 protocol details**

	Identification of Protocol Specification	Support	Comment
–	ITU-T Rec. X.225 (1994) ISO/IEC 8327-1:1996		
1			
2			
3			

A.4.2 ITU-T Rec. X.225 | ISO/IEC 8327-1 protocol versions

Which version of the Session Protocol is described in this PICS?

		Status	Support	Mnemonic	Comment
1	Version 1	o.1		S-V1	
2	Version 2	o.1			
o.1: the implementation of one, and only one, version of the protocol shall be described in this proforma (see below).					

An implementation shall be described by completing a separate PICS proforma for each supported protocol version. PICS document for all versions of the protocol for which conformance is claimed should be attached to each other, and used together.

Which other versions of the Session Protocol does the implementation support?

		Status	Support	Comment
3	Version 1	o		
4	Version 2	o		

A.4.3 ITU-T Rec. X.225 | ISO/IEC 8327-1 technical corrigenda implemented

Identification of corrigenda applied to the implementation	ITU-T Rec. X.225 (1994) ISO/IEC 8327-1:1996 Corr: Corr: Corr: Corr: Corr:
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A.5 Global statement of conformance

1	Are all mandatory features implemented? (yes or no)
NOTE – If a positive response is not given to this box, then the implementation does not conform to ITU-T Rec. X.225 ISO/IEC 8327-1.	