

AS/NZS 3646.5:1994
ISO/IEC 8571-5:1990

Australian/New Zealand Standard

**Information processing systems—
Open Systems Interconnection—
File transfer, access and
management**

**Part 5: Protocol implementation
conformance statement proforma**

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AS/NZS 3646.5:1994

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Information processing systems— Open Systems Interconnection— File transfer, access and management

Part 5: Protocol implementation conformance statement proforma

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PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee IT/1, on Information Systems—Interconnection. It is identical with, and has been reproduced from, ISO/IEC 8571-5:1990, *Information processing systems—Open Systems Interconnection—File Transfer, Access and Management, Part 5: Protocol Implementation Conformance Statement Proforma*.

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<i>Reference to International Standard or other Publication</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS	
7498	Information Processing Systems— Open Systems Interconnection—Basic Reference Model	2777	Information processing systems— Open Systems Interconnection—Basic reference model
		AS/NZS	
8571	Information Processing Systems— Open Systems Interconnection—File Transfer, Access and Management	3646	Information processing systems— Open Systems Interconnection—File transfer, access and management
8571-1	Part 1: General Introduction	3646.1	Part 1: General introduction
8571-2	Part 2: Virtual Filestore Definition	3646.2	Part 2: Virtual filestore definition
8571-3	Part 3: File Service Definition	3646.3	Part 3: File service definition
8571-4	Part 4: File protocol Specification	3646.4	Part 4: File protocol specification
		AS	
8822	Information Processing Systems— Open Systems Interconnection— Connection Oriented Presentation Service Definition	3615	Information processing systems—Open Systems Interconnection—Connection oriented presentation service definition
8823	Information Processing Systems— Open Systems Interconnection— Connection Oriented Presentation Protocol Specification	3616	Information processing systems— Open Systems Interconnection— Connection oriented presentation protocol specification

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ISO		AS/NZS	
9646	Information technology—Open Systems Interconnection—Conformance Testing Methodology and Framework	4103	Information technology—Open Systems Interconnection—Conformance testing methodology and framework
9646-1	Part 1: General Concepts	4103.1	Part 1: General concepts
9646-2	Part 2: Abstract Test Suite Specification	4103.2	Part 2: Abstract test suite specification
ISO/TR		AS	
8509	Information Processing Systems—Open Systems Interconnection—Service Conventions	3620	Information processing systems—Open Systems Interconnection—Service conventions

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Information processing systems—Open Systems Interconnection—File transfer, access and management

Part 5: Protocol implementation conformance statement proforma

1 Scope

This part of ISO 8571 defines a Protocol Implementation Conformance Statement (PICS) proforma for the detailed expression of the conformance requirements of ISO 8571. This PICS proforma is in compliance with the relevant requirements and in accordance with the relevant guidance for a PICS proforma given in ISO 9646-2. Detail of the use of this proforma is provided in this part of ISO 8571. Implementations claiming conformance to ISO 8571 shall complete the proforma as part of the conformance requirements. The level of detail required in the proforma exceeds that of the protocol specification by requiring details to uniquely identify the implementation and the supplier.

NOTE - PICS are related to base standards and only base standards. PICS structure might be expanded and refined for other documents using the base standards (eg ISPICS)

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8571. At the time of publication, the editions indicated were valid. All standards are subject to revision, and the parties to agreements based on this part of ISO 8571 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7498 : 1984, *Information Processing Systems - Open Systems Interconnection - Basic Reference Model*.

ISO/TR 8509 : 1987, *Information Processing Systems - Open Systems Interconnection - Service Conventions*.

ISO 8571-1 : 1988, *Information Processing Systems - Open Systems Interconnection - File transfer, Access and Management - Part 1: General Introduction*.

ISO 8571-2 : 1988, *Information Processing Systems - Open Systems Interconnection - File transfer, Access and Management - Part 2: Virtual Filestore Definition*.

ISO 8571-3 : 1988, *Information Processing Systems - Open Systems Interconnection - File transfer, Access and Management - Part 3: File Service Definition*.

ISO 8571-4 : 1988, *Information Processing Systems - Open Systems Interconnection - File transfer, Access and Management - Part 4: File protocol Specification*.

ISO 8822 : 1988, *Information Processing Systems - Open Systems Interconnection - Connection Oriented Presentation Service Definition*.

ISO 8823 : 1988, *Information Processing Systems - Open Systems Interconnection - Connection Oriented Presentation Protocol Specification*.

ISO 9646-1 : ¹⁾, *Information technology - Open Systems Interconnection - Conformance Testing Methodology and Framework - Part 1: General Concepts*.

ISO 9646-2 : ¹⁾, *Information technology - Open Systems Interconnection - Conformance Testing Methodology and Framework - Part 2: Abstract Test Suite Specification*.

1) To be published.

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3 Definitions

Terms used in this part of ISO 8571 are defined in ISO 8571-1. The following terms are defined in ISO 9646

- a) Protocol Implementation Conformance Statement (PICS)
- b) PICS proforma

4 Abbreviations

Abbreviations used in this part of ISO 8571 are defined in ISO 8571-1 and clause 8. The following abbreviation used in this part of ISO 8571 is defined in ISO 9646

- PICS

5 Conventions

This part of ISO 8571 uses the descriptive conventions in the OSI Service Conventions ISO/TR 8509. The PICS proforma annex has been designed to be a self-contained section of this part of ISO 8571, for use in testing and procurement.

6 Conformance

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

A PICS which conforms to this part of ISO 8571 shall

- a) describe an implementation which conforms to ISO 8571-4
- b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clauses A.8 and A.10 of annex A
- c) include the information necessary to uniquely identify both the supplier and the implementation

7 Description of the proforma

The proforma defined in annex A is divided into the following sections:

- a) Implementation detail (see 7.1)
- b) General ISO 8571 detail (see 7.2)

c) Syntax detail (see 7.3)

d) Virtual Filestore detail (see 7.4)

e) File Protocol detail (see 7.5)

f) Document Type detail (see 7.6)

Throughout each section, whenever a line contains a requirement for an implementation response, that line is numbered at the left hand side. For the significance of this numbering see clause 9.

7.1 Implementation detail

The implementation detail provides a number of items of information which allow a unique identification of an implementation and the supplier. These are implementor and supplier specific.

7.2 General ISO 8571 detail

The general detail covers general detail of ISO 8571. This includes information on which protocol version numbers, addenda and defect reports have been included in the implementation. Also specified in this section is a statement of which roles have been implemented from the ranges of initiator/responder and sender/receiver.

7.3 Syntax detail

The abstract syntaxes identified are those defined for the basic operation of the protocol and the implementation of the hierarchical file model. Support for abstract syntaxes defined as part of a document type is defined in section six (document type detail).

Conformance to the syntactic elements of the protocol which cannot be exercised because of overriding application semantic constraints is outside the scope of the individual PICS.

7.4 Virtual Filestore detail

The virtual filestore detail provides information on which virtual filestore model has been implemented and if the hierarchical model defined in ISO 8571-2 has been implemented. The section continues to identify the detail of the model. Definition of other filestore models is for future study and the detail in this section may or may not be relevant.

As the virtual filestore is always in the role of responder a certain asymmetry develops within the PICS with some features for the responder implementation being specified

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in this Virtual Filestore section while the initiator implementation detail is specified in the protocol section.

7.5 File Protocol detail

Comprising the major portion of the PICS, the file protocol detail section establishes which fields of which PDUs are implemented. It requires a statement of the value range supported and a reference to further detail for many of the fields.

7.6 Document Type detail

Document type detail is included in the PICS to reflect the detail in ISO 8571-2. It is not necessary, for conformance purposes, to implement any of the document types defined in ISO 8571-2. The style of the proforma in this section may be used to specify support of further document types.

8 Notations defined for the proforma

In order to reduce the size of the tables in the PICS proforma notations have been introduced. These have allowed the use of multi-column layout where the columns are headed 'D', 'I' or 'R' - The definition of each of these follows.

8.1 D - column

'D' - Defined in ISO 8571. This column indicates the level of support required for conformance to ISO 8571, it has three distinct sets of values, one for attribute support, one for PDU support and one for parameter support. These are detailed below:

For attributes

'f' - full support of the attribute is required, as defined in ISO 8571-2.

'p' - partial support of the attribute is permitted, as defined in ISO 8571-2.

For PDUs

'm' - mandatory support is required for this protocol data unit.

'c' - support for this protocol data unit is conditional upon the implementation of particular functional units. If the relevant functional unit is implemented the support level for the PDU is mandatory.

For parameters

'm' - mandatory support is required for this parameter for conformance to ISO 8571.

'o' - optional support is permitted for conformance to ISO 8571. Although if implemented it must conform to the specifications and restrictions contained in ISO 8571. These restrictions may affect the optionality of other parameters.

'—' - a of dash to indicate that the item is not applicable.

8.2 I - column

The 'I' column shall be completed by the supplier or implementor to indicate the level of implementation of each feature in the role of initiator. Where this column is pre printed with dashes, representing a non applicable entry, no entry shall be inserted in the 'I' column. Elsewhere entries shall be as defined in 8.4.

8.3 R - column

The 'R' column shall be completed by the supplier or implementor to indicate the level of implementation of each feature in the role of responder. Where this column is pre printed with dashes, representing a non applicable entry, no entry shall be inserted in the 'R' column. Elsewhere entries shall be as defined in 8.4.

Attribute support level columns in section four are specified as either 'R full' or 'R partial'. These shall be completed as defined in 8.4 to indicate whether the file attributes are fully or partially supported as defined in ISO 8571-2.

8.4 Column entries

The PICS proforma has been designed such that the only entries required in the 'I' and 'R' columns are:

Y - yes, the feature has been implemented

N - no, the feature has not been implemented

The 'RANGE OF VALUES' column requires the specification of the range of values implemented for the feature it is alongside, for each role, where relevant. This column has, in some instances, instead of space for a value, a forward reference to a clause providing for more detail.

9 PICS numbers

Each line, within a clause of the PICS proforma, which requires implementation detail to be entered is numbered at the left hand edge of the line. This numbering is included as a means of uniquely identifying all possible implementation detail within the PICS proforma. The need for such unique referencing has been identified by the testing bodies.

All responses shall be referenced by specifying the following sequence:

- a) the clause number
- b) a solidus character (/)

c) line number

d) line item identifier as defined in ISO 9646-2.

10 Completion of the PICS

The implementor shall complete all entries in the columns marked 'R' and 'I'. 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.

Annex A ¹⁾ (normative)

Protocol Implementation Conformance Statement(PICS) Proforma for OSI File Transfer, Access and Management (FTAM)

Section 1 : Implementation Details

A.1 Date of Statement

1 Date of Statement yy-mm-dd

A.2 Implementation detail

Specify the information necessary to uniquely identify the implementation and the systems 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 this PICS.
- d) the relationship between this PICS and the System Conformance Statement for the system (see note 1)
- e) Profiles to which conformance is claimed. (see note 2)

NOTES

1) The System Conformance Statement is defined in ISO 9646. It relates to a PICS covering more than one layer of the reference model.

2) The list of profile names is not necessarily a fully inclusive set of those covered by this implementation.

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1) Copyright release for PICS proformas

Users of this 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.

Section 2 : General ISO 8571 Detail

A.3 ISO 8571 Protocol versions implemented

1	FTAM protocol version number(s)
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A.4 ISO 8571 Addenda implemented

1	ISO 8571-1
2	ISO 8571-2
3	ISO 8571-3
4	ISO 8571-4
5	ISO 8571-5

A.5 Defect report numbers and amendments implemented

The numbers of any approved defect reports or amendments which have been implemented shall be stated below.

1	ISO 8571-1
2	ISO 8571-2
3	ISO 8571-3
4	ISO 8571-4
5	ISO 8571-5

A.6 Global statement of conformance

1 Does the implementation referred to by this PICS conform to ISO 8571? yes or no

A.7 Initiator / Responder capability

State which combination of roles are, and which are not, implemented and specified in this PICS.

	ROLES	D	I	R	
1	Sender	o			
2	Receiver	o			

A.8 Application Context Name details

List the names of the Application Context Names recognized or provided by this implementation.

1

Section 3 : Syntax Detail

A.9 Abstract syntaxes

	Object descriptor	Object identifier	D	I	R
1	FTAM PCI	{iso standard 8571 abstract-syntax (2) ftam-pci (1)}	m		
2	FTAM FADU	{iso standard 8571 abstract-syntax (2) ftam-fadu (2)}	o		
3		{joint-iso-ccitt association-control(2) abstract-syntax(1) apdus(0) version1(1)}	m		
4		{iso standard 8571 abstract-syntax(2) unstructured-text(3)}	o		
5		{iso standard 8571 abstract-syntax(2) unstructured-binary(4)}	o		

NOTE - ISO 8571 requires the presence of the transfer syntax derived from the "Basic Encoding of a single ASN.1 type "{joint-iso-ccitt asn1 (1) basic-encoding (1)} encoding rules for transfer of the "FTAM PCI" and the "FTAM FADU" abstract syntaxes. Implementation detail of this transfer syntax, and other transfer syntaxes supported, is specified in the PICS of ISO 8823.