
**Information technology — Open Systems
Interconnection — Reliable Transfer:
Protocol Implementation Conformance
Statement (PICS) proforma**

*Technologies de l'information — Interconnexion de systèmes ouverts
(OSI) — Transfer fiable: Formulaire de déclaration de conformité de 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 9066-3 was prepared by ITU-T (as CCITT Rec. X.248) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC. The identical text is published as ITU-T Recommendation X.248.

ISO/IEC 9066 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — Reliable Transfer*:

- *Part 1: Model and service definition*
- *Part 2: Protocol specification*
- *Part 3: Protocol Implementation Conformance Statement (PICS) proforma*

Annex A forms an integral part of this part of ISO/IEC 9066.

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.

The Reliable Transfer Service Element (RTSE) is an application-service-element commonly used by a number of applications. RTSE provides for the reliable transfer of Application Protocol Data Units (APDUs) between open systems. It provides an application-independent mechanism to recover from communication and end-system failure minimizing the amount of retransmission.

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 reliable transfer protocol as defined in CCITT Rec. X.228 (1988) | ISO/IEC 9066-2:1989.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – RELIABLE TRANSFER: PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS) PROFORMA

1 Scope

This Recommendation | International Standard provides the Protocol Implementation Conformance Statement (PICS) proforma for the Reliable Transfer protocol specified in CCITT Rec. X.228 (1988) | ISO/IEC 9066-2:1989. 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 CCITT Rec. X.228 | ISO/IEC 9066-2 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 listed 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*.

2.2 Paired Recommendations | International Standards equivalent in technical content

- ITU-T Recommendation X.218 (1993), *Reliable transfer: Model and service definition*.
ISO/IEC 9066-1:1989, *Information processing systems – Text communication – Reliable Transfer – Part 1: Model and service definition*.
- CCITT Recommendation X.228 (1988), *Reliable transfer: Protocol specification*.
ISO/IEC 9066-2:1989, *Information processing systems – Text communication – Reliable Transfer – Part 2: Protocol specification*.
- 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*.
- CCITT Recommendation X.419 (1992), *Message handling systems – Protocol specifications*.
ISO/IEC 10021-6:1990, *Information technology – Text communication – Message-Oriented Text Interchange Systems (MOTIS) – Part 6: Protocol specifications*.

2.3 Additional references

- CCITT Recommendation X.482 (1996), *Messaging handling systems – P1 Protocol PICS proforma*.
- CCITT Recommendation X.483 (1996), *Messaging handling systems – P3 Protocol PICS proforma*.
- CCITT Recommendation X.484 (1996), *Messaging handling systems – P7 Protocol PICS proforma*.

3 Definitions

This Recommendation | International Standard makes use of the following terms defined in ITU-T Rec. X.290 | ISO/IEC 9646-1:

- a) Implementation Conformance Statement;
- b) Implementation Conformance Statement proforma;
- c) Protocol Implementation Conformation Statement (PICS); and
- d) PICS proforma.

This Recommendation | International Standard makes use of the following terms defined in CCITT Rec. X.419 | ISO/IEC 10021-6:

- a) mts-transfer;
- b) mts-transfer-protocol;
- c) mts-transfer-protocol-1984;
- d) mts-reliable-access;
- e) mts-forced-reliable-access; and
- f) ms-reliable-access.

4 Abbreviations

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

ICS	Implementation Conformance Statement
PICS	Protocol Implementation Conformance Statement

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:

- a) describe an implementation which conforms to CCITT Rec. X.228 | ISO/IEC 9066-2;
- b) be a confirming PICS proforma, which has been completed in accordance with the instruction for completion given in A.2;
- c) include the information necessary to uniquely identify both the supplier and the implementation.