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Information technology — Open Systems Interconnection — Connectionless presentation protocol specification

*Technologies de l'information — Interconnexion de systèmes ouverts — Spécification
de protocole de présentation en mode sans connexion*



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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.

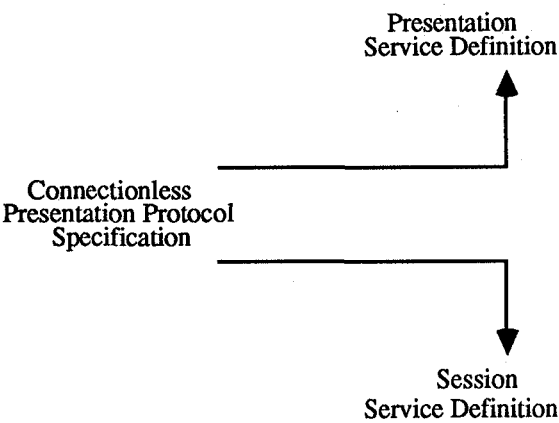
International Standard ISO/IEC 9576 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

Annex A forms an integral part of this International Standard.

Introduction

This International Standard (ISO 9576) is one of a set of International Standards produced to facilitate the interconnection of information processing systems. The set of standards covers the services and protocols required to achieve such interconnection.

This International Standard is positioned with respect to other related standards by the layers defined in the Reference Model for Open System Interconnection (ISO 7498). In particular, it is a protocol of the Presentation Layer. It is most closely related to the Presentation Service Definition (ISO 8822) and the addendum to the Presentation Service Definition covering connectionless-mode transmission (ISO 8822/Amd.1), the Session Service Definition (ISO 8326), and the addendum to the Session Service Definition covering connectionless-mode transmission (ISO 8326/Amd.3). The interrelationships of these standards is depicted below:



The structure of this International Standard is similar to the structure of the connection-oriented Presentation Protocol specification in order to facilitate cross reference between the two standards.

Information technology - Open Systems Interconnection - Connectionless presentation protocol specification

1 Scope

This International Standard¹⁾ specifies

- a) procedures for the transfer of data and control information from one presentation-entity to a peer presentation-entity;
- b) the structure and encoding of the presentation-protocol-data-units used for the transfer of data and control information;

The procedures are defined in terms of:

- c) the interactions between peer presentation-entities through the exchange of presentation-protocol-data-units;
- d) the interactions between a presentation-entity and the presentation-service-user in the same system through the exchange of presentation-service primitives;
- e) the interactions between a presentation-entity and the session-service-provider through the exchange of session-service primitives.

These procedures are defined in the main text of this International Standard supplemented by state tables in the annex A.

These procedures are applicable to instances of communication between systems which support the Presentation Layer of the OSI Reference Model, and which wish to transfer presentation service data units using connectionless-mode presentation service primitives.

This International Standard also specifies conformance criteria for systems implementing these procedures. It does not contain tests which can be used to demonstrate this conformance.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed 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 7498/Add.1: 1987, *Information processing systems - Open Systems Interconnection - Basic Reference Model - Addendum 1: Connectionless-mode Transmission*.

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

ISO 8326: 1987, *Information processing systems - Open Systems Interconnection - Basic connection oriented session service definition*.

ISO 8326/Add.3: -²⁾, *Information processing systems - Open Systems Interconnection - Basic connection oriented session service definition - Addendum 3: Connectionless-mode session service*.

ISO/TR 8509: 1987, *Information processing systems - Open Systems Interconnection - Service conventions*.

ISO 8822: 1988, *Information processing systems - Open Systems Interconnection - Connection oriented presentation service definition*.

1) The implementation and use of this International Standard for Open Systems Interconnection requires the public assignment of values of ASN.1 type OBJECT IDENTIFIER to specifications of abstract syntaxes and transfer syntaxes. Public specification and naming of abstract syntaxes and transfer syntaxes can occur in ISO standards, or under the mechanisms identified in the Registration Authority procedures. A Registration Authority procedure specification is under development.

2) To be published.

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ISO 8822/Amd.1: -¹⁾, *Information processing systems - Open Systems Interconnection - Connection oriented presentation service definition - Amendment 1: Connectionless-mode presentation service.*

ISO 8823: 1988, *Information processing systems - Open Systems Interconnection - Connection oriented presentation protocol specification.*

ISO 8824: 1987, *Information processing systems - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1).*

ISO 8825: 1987, *Information processing systems - Open Systems Interconnection - Specification of Basic Encoding Rules For Abstract Syntax Notation One (ASN.1).*

1) To be published.