

# INTERNATIONAL STANDARD

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## Information technology — Open Systems Interconnection — Connectionless ACSE protocol specification

*Technologies de l'information — Interconnexion de systèmes ouverts — Spécification  
de protocole ACSE 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 10035 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 is one of a set of International standards produced to facilitate the interconnection of information processing systems. It is related to other International Standards in the set as defined by the Reference Model for Open Systems Interconnection (ISO 7498). The reference model subdivides the areas 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.

This International Standard specifies the protocol for the A-UNIT-DATA service for the Association Control Service Element (ACSE). The A-UNIT-DATA service provides for information transfer between application-entities utilizing the connectionless presentation service. This service is intended to be applicable to a wide range of application process communication requirements.

This International Standard includes an annex that describes the protocol machine of ACSE in terms of a state table. This protocol machine is referred to as the Association Control Protocol Machine (ACPM).

The protocol defined in this International Standard uses the connectionless presentation-service (ISO 8822/Amd.1).

# Information technology - Open Systems Interconnection - Connectionless ACSE protocol specification

## 1 Scope

This International Standard specifies

- a) procedures for the transfer of information, between application-entities; and
- b) the abstract syntax for the representation of the A-UNIT-DATA ACSE APDU.

The A-UNIT-DATA procedure is defined in terms of

- a) The interactions between peer ACSE protocol machines by the use of connectionless presentation-service; and
- b) the interaction between an ACSE protocol machine and its service-user.

These procedures are applicable to instances of communication between systems which wish to communicate in an open systems interconnection environment in a connectionless mode.

This International Standard also specifies conformance requirements for systems implementing this procedure. It does not contain tests which can be used to demonstrate 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 8326/Add.3: <sup>-1)</sup>, *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 8649: 1988, *Information processing systems - Open Systems Interconnection - Service definition for the Association Control Service Element*.

ISO 8649/Amd.2: <sup>-1)</sup>, *Information processing systems - Open Systems Interconnection - Service definition for the Association Control Service Element - Amendment 2: Connectionless-mode ACSE service*.

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

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

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

1) To be published.