

**Implementation of
EN ISO/IEC 8072:1996**

Information technology — Open Systems Interconnection — Transport service definition

The European Standard EN ISO/IEC 8072:1995 has the status of a British Standard

ICS 35.100.40

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Information Systems Technology Standards Policy Committee (IST/-) to Technical Committee IST/6, upon which the following bodies were represented:

- British Computer Society
- British Telecommunications plc
- CCTA (The Government Centre for Information Systems)
- Digital Equipment Co. Ltd.
- IBM United Kingdom Ltd.
- Information Systems Committee of the Universities Funding Council
- Institution of Electrical Engineers
- International Computers Limited
- Logica UK Ltd.
- Ministry of Defence
- Rank Xerox Ltd.
- Swift Project Consortium

This British Standard, having been prepared under the direction of the Information Systems Technology Standards Policy Committee was published under the authority of the Standards Board and comes into effect on 15 February 1995

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The following BSI references relate to the work on this standard:
Committee reference IST/6
Draft for comment 92/68384 DC

ISBN 0 580 23701 X

Amendments issued since publication

Amd. No.	Date	Comments
9091	June 1996	Indicated by a sideline in the margin

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National foreword

This British Standard has been prepared by Technical Committee IST/6 and is the English language version of EN ISO/IEC 8072:1995, *Information technology — Open Systems Interconnection — Transport service definition*, published by the European Committee for Standardization (CEN). It is identical with ISO/IEC 8072:1994 published jointly by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

BS EN ISO/IEC 8072:1996 supersedes BS 7218:1990, which is withdrawn.

This British Standard is published under the direction of the Information Systems Technology Standards Policy Committee whose Technical Committee IST/6 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO/IEC title page, page 2, the ISO/IEC title page, pages ii to iv, pages 1 to 24 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

ICS 35.100.40

Descriptors: See ISO document

English version

Information technology — Open Systems Interconnection — Transport service definition

(ISO/IEC 8072:1994)

Technologies de l'information — Interconnexion
de systèmes ouverts (OSI) — Définition du
service de transport
(ISO/IEC 8072:1994)

This European Standard was approved by CEN on 1995-08-31. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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Comité Européen de Normalisation
Europäisches Komitee für Normung

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Ref: EN ISO/IEC 8072:1995 E
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Foreword

This European Standard has been taken over by CEN Technical Board from the work of ISO/IEC/JTC 1 “Information Technology” of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 1996, and conflicting national standards shall be withdrawn at the latest by April 1996.

According to CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

INTERNATIONAL STANDARD

ISO/IEC 8072

Second edition
1994-08-01

Information technology — Open Systems Interconnection — Transport service definition

*Technologies de l'information — Interconnexion de systèmes ouverts
(OSI) — Définition du service de transport*



Reference number
ISO/IEC 8072:1994(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.

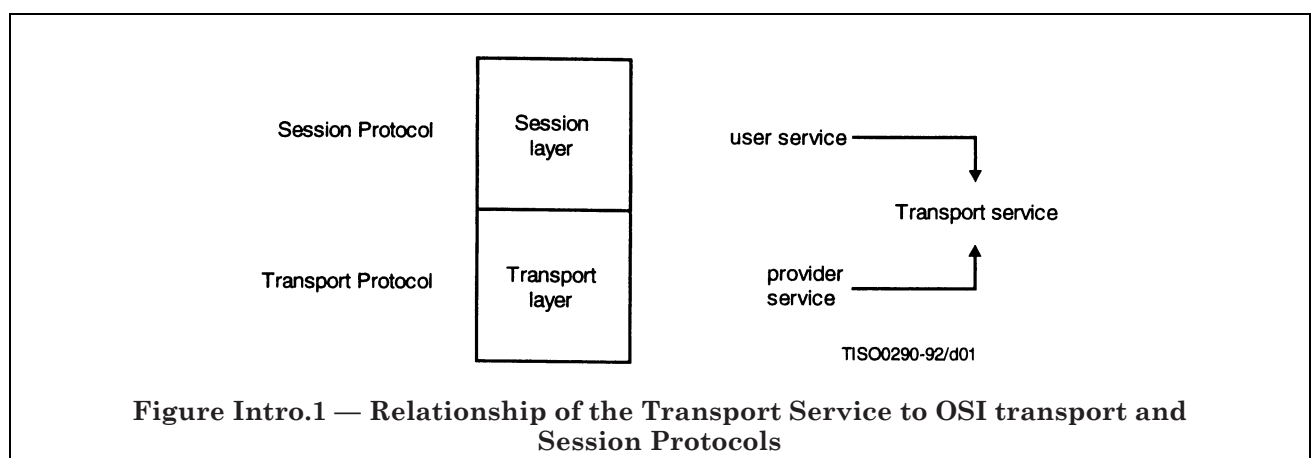
International Standard ISO/IEC 8072 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*, in collaboration with ITU-T. The identical text is published as ITU-T Recommendation X.214.

This second edition cancels and replaces the first edition (ISO 8072:1986), which has been technically revised and consolidates Addendum 1:1986 and Technical Corrigendum 1:1991.

Introduction

This Recommendation | International Standard is one of a set of Recommendations | International Standards produced to facilitate the interconnection of computer systems. It is related to other Recommendations | International Standards in the set as defined by the Reference Model of Open Systems Interconnection (OSI). The OSI Reference Model (CCITT Rec. X.200 | ISO 7498) subdivides the area of standardization for interconnection into a series of layers of specification, each of manageable size.

This Recommendation | International Standard defines the Service provided by the Transport Layer to the Session Layer at the boundary between the Transport and Session Layers of the Reference Model. It provides for the designers of Session Protocols a definition of the Transport Service existing to support the Session Protocol and for designers of Transport Protocols a definition of the services to be made available through the action of the Transport Protocol over the underlying service. This relationship is illustrated in Figure Intro.1.



Throughout the set of OSI Recommendations | International Standards, the term “Service” refers to the abstract capability provided by one layer of the OSI Reference Model to the layer above it. Thus, the Transport Service defined in this Recommendation | International Standard is a conceptual architectural Service, independent of administrative divisions.

NOTE It is important to distinguish the specialized use of the term “Service” within the set of OSI Recommendations | International Standards from its use elsewhere to describe the provision of a service by an organisation (such as the provision of a service, as defined in other Recommendations, by an Administration).

Section 1. General

1 Scope

This Recommendation | International Standard defines in an abstract way the externally visible service provided by the OSI Transport Layer in terms of:

- a) the primitive actions and events of the service;
- b) the parameter data associated with each primitive action and event;
- c) the relationship between, and the valid sequences of, these actions and events.

The service defined in this Recommendation | International Standard is that which is provided by all OSI Transport Protocols (in conjunction with the Network Service) and which may be used by any OSI Session Protocol.

This Recommendation | International Standard does not specify individual implementations or products, nor does it constrain the implementation of entities and interfaces within a system. Conformance of equipment to this Recommendation | International Standard is achieved by conformance to the protocols specified to fulfil the Transport Service defined in this Recommendation | International Standard.