

Implementation of ISO/IEC 9595:1991

**Information
technology —
Open Systems
Interconnection —
Common management
information service
definition**

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The preparation of this British Standard was entrusted by the Information Systems Technology Standards Policy Committee (IST/-) to Technical Committee IST/21, upon which the following bodies were represented:

- Association for Payment Clearing Services
- British Computer Society
- British Gas plc
- British Telecommunications plc
- Computing Services Association
- Department of Trade and Industry (Alvey — Advanced Network Systems Architecture)
- Department of Trade and Industry (Information Technology Division)
- Department of Trade and Industry (National Physical Laboratory)
- EEA (The Association of Electronics, Telecommunications and Business Equipment Industries)
- HM Treasury (Central Computer and Telecommunications Agency)
- Institute of Chartered Secretaries and Administrators
- Institution of Electrical Engineers
- Inter-universities Computing Committee
- Joint Network Team
- Ministry of Defence
- National Health Services
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- University of London Computer Centre

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National foreword

This British Standard reproduces verbatim ISO/IEC 9595:1991 including Technical Corrigenda 1, 2 and 3 and Amendment 4 and implements it as the UK national standard. It supersedes BS ISO/IEC 9595:1990 which is withdrawn.

This British Standard is published under the direction of the Information Systems Technology Standards Policy Committee whose Technical Committee IST/21 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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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO/IEC title page, pages ii to iv, pages 1 to 21 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.

INTERNATIONAL STANDARD

ISO/IEC 9595

Second edition
1991-04-01

AMENDMENT 4
1992-07-01

Information technology — Open Systems Interconnection — Common management information service definition

AMENDMENT 4: Access control

*Technologies de l'information — Interconnexion de systèmes ouverts — Définition
du service commun d'information de gestion*

AMENDEMENT 4: Commande d'accès



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Descriptors: Data processing, information interchange, network interconnection, open systems interconnection, communication procedure, control procedures, application layer, management.

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.

Amendment 4 to International Standard ISO/IEC 9595:1991 was prepared by joint Technical Committee ISO/IEC JTC 1, *Information technology*.

1 Scope

This International Standard defines an Application Service Element (the Common Management Information Service Element), which may be used by an application process in a centralized or decentralized management environment to exchange information and commands for the purpose of systems management, as defined by the OSI Management Framework in ISO/IEC 7498-4. This International Standard is positioned in the application layer of ISO 7498 and is defined according to the model provided by ISO/IEC 9545.

This International Standard defines

- a set of service primitives that constitute the application service element;
- the parameters that are passed in each service primitive;
- any necessary information for the semantic description of each service primitive.

This International Standard does not define

- the nature of any implementation intended to provide the defined service;
- the semantics associated with the information or commands that are exchanged by means of the service;
- the manner in which management is accomplished by the user of the service;
- the nature of any interactions which result in the use of the service.

No requirement is made for conformance to this International Standard.

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/IEC 7498-4:1989, *Information processing systems — Open System Interconnection — Basic Reference Model — Part 4: Management Framework*.

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

ISO 8649:1987, *Information processing systems — Open Systems Interconnection — Service definition for the Association Control Service Element*.

ISO/IEC 9545:1989, *Information processing systems — Open Systems Interconnection — Application Layer Structure (ALS)*.

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1

basic reference model definitions

this International Standard makes use of the following terms defined in ISO 7498

- a) application-service-element;
- b) open system;
- c) systems-management.

3.2

management framework definitions

this International Standard makes use of the following terms defined in ISO/IEC 7498-4

- a) managed object;
- b) management information;
- c) systems management application-entity.

3.3

ACSE definitions

this International Standard makes use of the following terms defined in ISO 8649

- a) application-association;
- b) application context;
- c) association;
- d) association-initiator.

3.4

service conventions definitions

this International Standard makes use of the following terms defined in ISO/TR 8509

- a) confirm (primitive);
- b) confirmed-service;
- c) indication (primitive);
- d) non-confirmed-service;
- e) request (primitive);
- f) response (primitive).

3.5 Additional definitions

3.5.1

attribute

a property of a managed object. An attribute has a value