

Australian Standard®

**Information technology — Open
Systems Interconnection — Common
management information protocol
specification**

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PREFACE

This Standard was prepared by the Standards Australia Committee on Information Technology—Interconnection. It is identical with and has been reproduced from ISO/IEC 9596:1990, *Information technology—Open Systems Interconnection—Common management information protocol specification*.

The Standard is one of a series of Open Systems Interconnection (OSI) Standards which are currently under development. Since OSI Standards are developmental, there may be some minor difficulties encountered in their implementation. For this reason, Standards Australia will be providing, through the OSI Help Desk, a service to coordinate and disseminate information concerning difficulties which are identified in using this Standard.

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For the purpose of this Australian Standard, the ISO/IEC text should be modified as follows:

(i) *Terminology* The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.

(ii) *References* The references to International Standards should be replaced by references to Australian Standards as follows:

Reference to International Standard	Australian Standard
ISO	AS
7498 Information processing systems—Open Systems Interconnection—Basic Reference Model	2777 Information processing systems—Open Systems Interconnection—Basic reference model
7498-4 Part 4: Management Framework	2777.4 Part 4: Management framework
8326 Information processing systems—Open Systems Interconnection—Basic connection oriented session service definition	3201 Information processing systems—Open Systems Interconnection—Basic connection oriented session service definition
8649 Information processing systems—Open Systems Interconnection—Service definition for the Association Control Service Element	3683 Information processing systems—Open Systems Interconnection—Service definition for the Association Control Service Element
8650 Information processing systems—Open Systems Interconnection—Protocol specification for the Association Control Service Element	3684 Information processing systems—Open Systems Interconnection—Protocol specification for the Association Control Service Element
8822 Information processing systems—Open Systems Interconnection—Connection oriented presentation service definition	3675 Information processing systems—Open Systems Interconnection—Connection oriented presentation service definition
8823 Information processing systems—Open Systems Interconnection—Connection oriented presentation protocol specification	3161 Information processing systems—Open Systems Interconnection—Connection oriented presentation protocol specification
8824 Information processing systems—Open Systems Interconnection—Specification of Abstract Syntax Notation One (ASN.1)	3625 Information processing systems—Open Systems Interconnection—Specification of Abstract Syntax Notation One (ASN.1)
8825 Information processing systems—Open Systems Interconnection—Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)	3626 Information processing systems—Open Systems Interconnection—Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)
ISO/IEC	
9072 Information processing systems—Text Communication—Remote Operations	3893 Information processing systems—Text communication—Remote operations
9072-1 Part 1: Model, Notation and Service Definition	3893.1 Part 1: Model, notation and service definition
9072-2 Part 2: Protocol Specification	3893.2 Part 2: Protocol specification
9595 Information technology—Open Systems Interconnection—Common Management Information Service Definition	3965 Information technology—Open Systems Interconnection—Common management information service definition

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Information technology—Open Systems Interconnection—Common management information protocol specification

1 Scope

This International Standard specifies a protocol which is used by application layer entities to exchange management information.

This International Standard specifies

- procedures for the transmission of management information between application entities;
- the abstract syntax of the Common Management Information Protocol and the associated encoding rules to be applied;
- procedures for the correct interpretation of protocol control information;
- the conformance requirements to be met by implementation of this International Standard.

This International Standard does not specify

- the structure or meaning of the management information that is transmitted by means of CMIP;
- the manner in which management is accomplished as a result of CMIP exchanges;
- the interactions which result in the use of CMIP.

2 Normative references

The following International 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 1498-4 : 1989, *Information processing systems - Open Systems Interconnection - Basic Reference Model - Part 4: Management Framework*.

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

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

ISO 8650 : 1987, *Information processing systems - Open Systems Interconnection - Protocol specification for the Association Control Service Element*.

ISO 8822 : 1987, *Information processing systems - Open Systems Interconnection - Connection oriented presentation service definition*.

ISO 8823 : 1987, *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)*.

ISO/IEC 9072-1 : 1989, *Information processing systems - Text Communication - Remote Operations - Part 1: Model, Notation and Service Definition*.

ISO/IEC 9072-2 : 1989, *Information processing systems - Text Communication - Remote Operations - Part 2: Protocol Specification*.

ISO/IEC 9595 : 1989, *Information technology - Open Systems Interconnection - Common Management Information Service Definition*.

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) application-process;
- c) real open system;
- d) 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) management information base;
- d) systems management application-entity.