AS 4019.1—1992
ISO/IEC 9594-1:1990

Australian Standard®

Information technology—Open Systems Interconnection—The Directory

Part 1: Overview of concepts, models and services

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PREFACE

This Standard was prepared by the Standards Australia Committee on Information Systems — Interconnection. It is identical with and has been reproduced from ISO/IEC 9594-1:1990, *Information technology — Open Systems Interconnection — The Directory* — Part 1: *Overview of concepts, models and services.*

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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(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 or other Publication		*Australian Standard*	
ISO		AS	
7498	Information Processing Systems — Open Systems Interconnection — Basic Reference Model	2777	Information processing systems — Open Systems Interconnection — Basic reference model
ISO/IEC			
8824	Information Technology — Open Systems Interconnection — Specification of Abstract Syntax Notation One (ASN.1)	3625	Information technology — Open Systems Interconnection — Specification of Abstract Syntax Notation One (ASN.1)
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 Specifications	3893.2	Part 2: Protocol specifications
9594	Information Technology — Open Systems Interconnection — The Directory	4019	Information technology — Open Systems Interconnection — The Directory
9594-2	Part 2: Models	4019.2	Part 2: Models
9594-3	Part 3: Abstract Service Definition	4019.3	Part 3: Abstract service definition
9594-4	Part 4: Procedures for Distributed Operation	4019.4	Part 4: Procedures for distributed operation
9594-5	Part 5: Protocol Specifications	4019.5	Part 5: Protocol specifications
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Part 1:
Overview of concepts, models and services

1 Scope

1.1 The Directory provides the directory capabilities required by OSI applications, OSI management processes, other OSI layer entities, and telecommunications services. Among the capabilities which it provides are those of 'user-friendly naming', whereby objects can be referred to by names which are suitable for citing by human users (though not all objects need have user-friendly names); and 'name-to-address mapping' which allows the binding between objects and their locations to be dynamic. The latter capability allows OSI networks, for example, to be 'self-configuring' in the sense that addition, removal and the changes of object location do not affect OSI network operation.

1.2 The Directory is not intended to be a general-purpose database system, although it may be built on such systems. It is assumed, for instance, that, as is typical with communications directories, there is a considerably higher frequency of 'queries' than of updates. The rate of updates is expected to be governed by the dynamics of people and organizations, rather than, for example, the dynamics of networks. There is also no need for instantaneous global commitment of updates: transient conditions where both old and new versions of the same information are available, are quite acceptable.

1.3 It is a characteristic of the Directory that, except as a consequence of differing access rights or unpropagated updates, the results of directory queries will not be dependent on the identity or location of the enquirer. This characteristic renders the Directory unsuitable for some telecommunications applications, for example some types of routing.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9594. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 9594 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 8824:1990	*Information Technology — Open Systems Interconnection — Specification of 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 Specifications.*
ISO/IEC 9594-2:1990,	*Information Technology — Open Systems Interconnection — The Directory — Part 2: Models.*
ISO/IEC 9594-3:1990,	*Information Technology — Open Systems Interconnection — The Directory — Part 3: Abstract Service Definition.*
ISO/IEC 9594-4:1990,	*Information Technology — Open Systems Interconnection — The Directory — Part 4: Procedures for Distributed Operation.*
ISO/IEC 9594-5:1990,	*Information Technology — Open Systems Interconnection — The Directory — Part 5: Protocol Specifications.*
ISO/IEC 9594-6:1990,	*Information Technology — Open Systems Interconnection — The Directory — Part 6: Selected Attribute Types.*
ISO/IEC 9594-7:1990,	*Information Technology — Open Systems Interconnection — The Directory — Part 7: Selected Object Classes.*