

Implementation of
ISO/IEC 9594-6:1990

Information Technology — Open Systems Interconnection — The Directory —

Part 6: Selected attribute types

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National foreword

This British Standard reproduces verbatim ISO/IEC 9594-6:1990 and implements it as the UK national standard.

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;
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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 22, an inside back cover 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
9594-6

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Information technology — Open Systems Interconnection — The Directory —

Part 6: Selected attribute types

*Technologies de l'information — Interconnexion de systèmes ouverts — L'annuaire —
Partie 6: Types d'attributs sélectionnés*



Reference number
ISO/IEC 9594-6 : 1990 (E)

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Descriptors: Data processing, information interchange, network interconnection, open systems interconnection, directories.

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 9594-6 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ISO/IEC 9594 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — The Directory*:

- *Part 1: Overview of concepts, models and services;*
- *Part 2: Models;*
- *Part 3: Abstract service definition;*
- *Part 4: Procedures for distributed operation;*
- *Part 5: Protocol specifications;*
- *Part 6: Selected attribute types;*
- *Part 7: Selected object classes;*
- *Part 8: Authentication framework.*

Annex A forms an integral part of this part of ISO/IEC 9594. Annex B and Annex C are for information only.

Introduction

0.1 This part of ISO/IEC 9594, together with the other parts of ISO/IEC 9594, has been produced to facilitate the interconnection of information processing systems to provide directory services. The set of all such systems, together with the directory information which they hold, can be viewed as an integrated whole, called the *Directory*. The information held by the Directory, collectively known as the Directory Information Base (DIB), is typically used to facilitate communication between, with or about objects such as application entities, people, terminals and distribution lists.

0.2 The Directory plays a significant role in Open Systems Interconnection, whose aim is to allow, with a minimum of technical agreement outside of the interconnection standards themselves, the interconnection of information processing systems:

- from different manufacturers;
- under different managements;
- of different levels of complexity; and
- of different ages.

0.3 This part of ISO/IEC 9594 defines a number of attribute types which may be found useful across a range of applications of the Directory. One particular use for many of the attributes defined herein is in the formation of names, particularly for the classes of object defined in ISO/IEC 9594-7. This part also defines a number of standard attribute syntaxes.

0.4 Annex A, which is part of ISO/IEC 9594, provides the ASN.1 notation for the complete module which defines the attributes and attribute syntaxes.

0.5 Annex B, which is not part of ISO/IEC 9594, provides an alphabetical index of attribute types, for easy reference.

Section 1. GENERAL

1 Scope

1.1 This part of ISO/IEC 9594 defines a number of attribute types which may be found useful across a range of applications of the Directory.

1.2 Attribute types (and attribute syntaxes) fall into three categories, as described in **1.2.1** through **1.2.3**.

1.2.1 Some attribute types (syntaxes) are used by a wide variety of applications or are understood and/or used by the Directory itself.

NOTE It is recommended that an attribute type (syntax) defined in this document be used, in preference to the generation of a new one, whenever it is appropriate for the application.

1.2.2 Some attribute types (syntaxes) are internationally-standardized, but are application-specific. These are defined in the standards associated with the application concerned.

1.2.3 Any administrative authority can define its own attribute types (syntaxes) for any purpose. These are not internationally standardized, and are available to others beyond the administrative authority which created them only by bilateral agreement.

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 3166:1988, *Codes for the representation of names of countries*.

ISO/IEC 8824:1990, *Information Technology — Open Systems Interconnection — Specification of Abstract Syntax Notation One (ASN.1)*.

ISO/IEC 9594-2:1990, *Information Technology — Open Systems Interconnection — The Directory — Part 2: Models*.

ISO/IEC 9594-7:1990, *Information Technology — Open Systems Interconnection — The Directory — Part 7: Selected Object Classes*.

CCITT Recommendation E.123, *Notation for National and International Telephone numbers.*
CCITT Recommendation E.123, *Notation for National and International Telephone numbers.*
CCITT Recommendation E.164, *Numbering plan for the ISDN era.*
CCITT Recommendation F.1, *Operational provisions for the international public telegram service.*
CCITT Recommendation F.200, *Teletex service.*
CCITT Recommendation F.401, *Message handling services: Naming and addressing for public message handling services.*
CCITT Recommendation T.30, *Procedures for document facsimile transmission in the general switched telephone network.*
CCITT Recommendation T.61, *Character repertoire and coded character sets for the international teletex service.*
CCITT Recommendation T.62, *Control procedures for teletex and Group 4 facsimile services.*
CCITT Recommendation X.121, *International numbering plan for public data networks.*

3 Definitions

This part of ISO/IEC 9594 makes use of the following definitions from ISO/IEC 9594-2:

- a) attribute type;
- b) attribute syntax;
- c) object class.

4 Notation

Attribute types and attribute syntaxes are defined in this document by the use of special notation, defined as ASN.1 macros in ISO/IEC 9594-2. There are two such macros, **ATTRIBUTE** and **ATTRIBUTE-SYNTAX**. Two “generic” object identifiers (**attributeType** and **attributeSyntax**) are used in defining the object identifiers being allocated to attribute types and attribute syntaxes respectively. Their definitions can be found in Annex B of ISO/IEC 9594-2.

Examples of the use of the attribute types are described using an informal notation, where attribute type and value pairs are represented by an acronym for the attribute type, followed by an equals sign (“=”), followed by the example value for the attribute.

Section 2. SELECTED ATTRIBUTE TYPES

5 Definition of Selected Attribute Types

This part of ISO/IEC 9594 defines a number of attribute types which may be found useful across a range of applications of the Directory.

5.1 System Attribute Types

These attribute types are concerned with information about objects known to the Directory.

5.1.1 Object Class

The *Object Class* attribute type, which is known to the Directory, is specified, except for the allocation of an object identifier, in ISO/IEC 9594-2.

objectClass *ObjectClass* ::= {**attributeType** 0}

5.1.2 Aliased Object Name

This attribute type is defined, except for the allocation of an object identifier, in ISO/IEC 9594-2.

aliasedObjectName *AliasedObjectName*
::= {**attributeType** 1}