
**Information technology — Open Systems
Interconnection — Procedures for the
operation of OSI Registration Authorities:
Registration of application processes and
application entities**

*Technologies de l'information — Interconnexion de systèmes ouverts
(OSI) — Procédures pour le fonctionnement des autorités
d'enregistrement OSI: Enregistrement des processus d'application (AP)
et des entités d'application (AE)*

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CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	1
2.1 Identical Recommendations International Standards	1
2.2 Additional references	1
3 Definitions	1
3.1 OSI Reference Model terms	2
3.2 Naming and addressing terms	2
3.3 Application Layer Structure terms	2
3.4 Registration-hierarchical-name-tree and object identifier tree terms	2
3.5 Directory terms	2
3.6 ASN.1 terms	2
4 Abbreviations	2
5 General considerations	3
5.1 Introduction	3
5.2 Requirements for registration authorities	3
6 Registration procedures	4
6.1 AP registration procedures	4
6.2 AE registration procedures	4
7 Minimum information requirements	4
8 Technical role	5
9 Maintenance procedures	5

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 9834-6 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 Rec. X.665.

This second edition cancels and replaces the first edition (ISO/IEC 9834-6:1993), which has been technically revised.

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ISO/IEC 9834 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — Procedures for the operation of OSI Registration Authorities*:

- *Part 1: General procedures and top arcs of the ASN.1 Object Identifier tree*
- *Part 2: Registration procedures for OSI document types*
- *Part 3: Registration of Object Identifier arcs beneath the top-level arc jointly administered by ISO and ITU-T*
- *Part 4: Register of VTE Profiles*
- *Part 5: Register of VT Control Object Definitions*
- *Part 6: Registration of application processes and application entities*
- *Part 7: Joint ISO and ITU-T Registration of International Organizations*
- *Part 8: Generation and registration of Universally Unique Identifiers (UUIDs) and their use as ASN.1 Object Identifier components*

Introduction

This Recommendation | International Standard identifies an administrative role for Registration Authorities for application-process-titles and application-entity qualifiers, based on the procedures for the operation of OSI registration authorities contained in ITU-T Rec. X.660 | ISO/IEC 9834-1. No technical role is defined.

ITU-T Rec. X.650 | ISO/IEC 7498-3, 13.1, specifies the need to assign globally unambiguous names to application-processes and application-entities. The syntactic forms of these titles are specified in ITU-T Rec. X.227 | ISO/IEC 8650.

ITU-T Study Group 17 and ISO/IEC JTC 1/SC 6 are jointly responsible for the syntactic definition of application-processes and application-entities.

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**INTERNATIONAL STANDARD
ITU-T RECOMMENDATION**

**Information technology – Open Systems Interconnection – Procedures for
the operation of OSI Registration Authorities: Registration
of application processes and application entities**

1 Scope

This Recommendation | International Standard specifies the procedures applicable to the registration of application-processes and application-entities.

No requirement for an international registration authority has been identified; therefore these procedures apply to registration at any point in the ASN.1 object identifier tree.

This Recommendation | International Standard does not cover the registration of application-process types or application-entity types. No requirement for such registration has been identified.

2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

2.1 Identical Recommendations | International Standards

- ITU-T Recommendation X.200 (1994) | ISO/IEC 7498-1:1994, *Information technology – Open Systems Interconnection – Basic Reference Model: The basic model.*
- ITU-T Recommendation X.207 (1993) | ISO/IEC 9545:1994, *Information technology – Open Systems Interconnection – Application layer structure.*
- ITU-T Recommendation X.227 (1995) | ISO/IEC 8650-1:1996, *Information technology – Open Systems Interconnection – Connection-oriented protocol for the Association Control Service Element: Protocol specification.*
- ITU-T Recommendation X.501 (2001) | ISO/IEC 9594-2:2001, *Information technology – Open Systems Interconnection – The Directory: Models.*
- ITU-T Recommendation X.650 (1996) | ISO/IEC 7498-3:1997, *Information technology – Open Systems Interconnection – Basic Reference Model: Naming and addressing.*
- ITU-T Recommendation X.660 (2004) | ISO/IEC 9834-1:2004, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: General procedures.*
- ITU-T Recommendation X.680 (2002) | ISO/IEC 8824-1:2002, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation.*

2.2 Additional references

- ISO/IEC 6523-1:1998, *Information technology – Structure for the identification of organizations and organization parts – Part 1: Identification of organization identification schemes.*
- ISO/IEC 6523-2:1998, *Information technology – Structure for the identification of organizations and organization parts – Part 2: Registration of organization identification schemes.*

3 Definitions

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

3.1 OSI Reference Model terms

This Recommendation | International Standard uses the following terms defined in ITU-T Rec. X.200 | ISO/IEC 7498-1:

- a) application-entity;
- b) application-entity-type;
- c) application-process;
- d) Open Systems Interconnection environment.

3.2 Naming and addressing terms

This Recommendation | International Standard uses the following terms defined in ITU-T Rec. X.650 | ISO/IEC 7498-3:

- a) application-entity-title;
- b) application-process-title.

3.3 Application Layer Structure terms

This Recommendation | International Standard uses the following terms defined in ISO/IEC 9545:

- a) application-entity-qualifier;
- b) application-process-type.

3.4 Registration-hierarchical-name-tree and object identifier tree terms

This Recommendation | International Standard uses the following terms defined in ITU-T Rec. X.660 | ISO/IEC 9834-1:

- a) International Registration Authority;
- b) primary integer value;
- c) registration;
- d) Registration Authority;
- e) registration-hierarchical-name (RH-name);
- f) registration-hierarchical-name-tree (RH-name-tree);
- g) sponsoring authority.

3.5 Directory terms

This Recommendation | International Standard uses the following terms defined in ITU-T Rec. X.501 | ISO/IEC 9594-2:

- a) distinguished-name;
- b) relative-distinguished-name.

3.6 ASN.1 terms

This Recommendation | International Standard uses the following term defined in ITU-T Rec. X.680 | ISO/IEC 8824-1:

- object identifier.

4 Abbreviations

For the purposes of this Recommendation | International Standard, the following abbreviations apply:

AE	Application-entity
AE-qualifier	Application-entity-qualifier
AE-title	Application-entity-title
AP	Application-process

AP-title	Application-process-title
ICD	International Code Designator (as defined in ISO/IEC 6523-1)
OSIE	Open Systems Interconnection Environment
RH-name	Registration Hierarchical name

5 General considerations

5.1 Introduction

5.1.1 ITU-T Rec. X.660 | ISO/IEC 9834-1 defines general procedures for registration that are independent of the object involved. It allows for other Recommendations | International Standards to define procedures that are specific to particular types of objects. This Recommendation | International Standard is concerned with the registration procedures for APs and AEs. All of the clauses of ITU-T Rec. X.660 | ISO/IEC 9834-1 apply to the specification of this Recommendation | International Standard with the exception of clause 7 (International Registration Authorities). ITU-T Rec. X.660 | ISO/IEC 9834-1, clause 7, does not apply because this Recommendation | International Standard does not address registration at the international level.

5.1.2 An AP is identified by an AP-title. An AP-title is a name that is unambiguous throughout the OSIE. The registration of an AP involves the assignment of an AP-title. The procedures defined herein enable the assignment of AP-titles that are unambiguous throughout the OSIE. An AP-title is an ASN.1 object identifier or a Directory Relative Distinguished Name.

5.1.3 Within an AP, an AE is identified by an AE-qualifier. An AE-qualifier is unambiguous within the scope of its AP. The registration of an AE involves the assignment of an AE-qualifier. The procedures defined herein enable the assignment of AE-qualifiers that are unambiguous within the scope of a particular AP. An AP-title is an ASN.1 object identifier or a Directory Relative Distinguished Name.

NOTE – Within the OSIE an AE is identified by an AE-title. An AE-title consists of an AP-title and an AE-qualifier. The registration of an AE does not involve the assignment of its AE-title. Annex A describes how an AE-title is formed from its constituent parts.

5.1.4 This Recommendation | International Standard contains no explicit provisions for the generation of AE-titles (see Annex A). However, an AE-title may be generated by the combination of an AP-title and an AE-qualifier, provided that these components have been assigned in accordance with the rules defined herein. An AE-title generated according to these rules is an instance of an RH-name.

5.1.5 The rules defined in this Recommendation | International Standard apply to registration authorities for (and within) countries and internationally recognized organizations (the latter are organizations which have been assigned an ICD). These rules describe an administrative role for such registration authorities.

NOTE 1 – No requirement has been identified either for a registration authority at the international level or for registration within International Standards.

NOTE 2 – The abstract syntaxes of AP-titles, AE-qualifiers and AE-titles are defined in ITU-T Rec. X.227 | ISO/IEC 8650-1. It defines two syntactic forms for each type of name: an object identifier form and a directory name form. The provisions of this Recommendation | International Standard are aligned with the definitions contained in ITU-T Rec. X.227 | ISO/IEC 8650-1.

5.2 Requirements for registration authorities

NOTE – This subclause describes general requirements applying to registration authorities that are responsible for the registration of either or both AP-titles and AE-qualifiers.

5.2.1 A registration authority which performs the registration of either or both AP-titles and AE-qualifiers in accordance with the procedures in this Recommendation | International Standard shall be either:

- a member of a set of registration authorities that assign object identifiers in accordance with the provisions of ITU-T Rec. X.660 | ISO/IEC 9834-1 Annex A, and also a member of a set of registration authorities that assign directory names in accordance with the provisions of ITU-T Rec. X.660 | ISO/IEC 9834-1, Annex B; or
- a member of a set of registration authorities that assign both object identifiers and directory names in accordance with the provisions of ITU-T Rec. X.660 | ISO/IEC 9834-1, Annex C.

5.2.2 A registration authority for the registration of an AP may also be responsible for the registration of AE-qualifiers of the AP; however, the latter responsibility may be delegated to subordinate registration authorities.