

JTC 1

# INTERNATIONAL STANDARD

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## Information technology — Open Systems Interconnection — Procedures for the operation of OSI Registration Authorities —

### Part 3:

Registration of object identifier component  
values for joint ISO-CCITT use

*Systemes de traitement de l'information — Interconnexion de systemes  
ouverts — Procédures pour des organismes d'enregistrement  
particuliers —*

*Partie 3: Enregistrement des identificateurs d'objets pour utilisation  
conjointement par l'ISO et le CCITT*



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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. 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 9834-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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## Introduction

ISO 8824 (Specification of Abstract Syntax Notation One (ASN.1)) provides mechanisms for assigning unambiguous names (called object identifiers) to bodies of information (called information objects).

The form of an object identifier is a sequence of object identifier components assigned in one register and identifying either the authority maintaining another register or an information object. The set of all object identifiers can be represented in a tree structure with nodes corresponding to authorities that maintain registers and the arcs corresponding to register entries.

An object identifier component (and hence the labels on the arcs of the tree and the identification of register entries) is an integer value, together with an (optional) component name. (The character set for component names is given in clause 6 below). Component names and the integer value are unambiguous (only) within a single register.

The root node is ISO 8824. This has three entries in its register:

<u>Name</u>	<u>Integer value</u>
ccitt	0
iso	1
joint-iso-ccitt	2

The registers identified by "ccitt" and by "iso" are also contained in ISO 8824, but further discussion is beyond the scope of this part of this International Standard.

The register identified by "joint-iso-ccitt" is maintained by the "International Registration Authority for assignment of object identifier component values for joint ISO-CCITT use"<sup>1</sup>, whose operations are specified by this part of ISO/IEC 9834.

This part of ISO/IEC 9834 is concerned with a Registration Authority which performs a purely administrative role. None of the clauses of ISO/IEC 9834-1 is referenced by this part of ISO/IEC 9834.

<sup>1</sup> The Registration Authority for the assignment of object identifier component values for joint ISO-CCITT use is the American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018, USA.

# Information technology - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities - Part 3: Registration of object identifier component values for joint ISO-CCITT use

## 1 Scope

This part of ISO/IEC 9834 specifies the procedures for operating the International Registration Authority for assignment of object identifier component values for joint ISO-CCITT use.

## 2 Normative References

The following International Standard/CCITT Recommendation contains provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9834. 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 9834 are encouraged to investigate the possibility of applying the most recent edition of the standard/Recommendation listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The CCITT Secretariat maintains a list of the currently valid CCITT Recommendations.

ISO 8824: 1987 *Information processing systems - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1)*.

CCITT X.208 (1988) *Specification of Abstract Syntax Notation One (ASN.1)*.

## 3 Definitions

For the purpose of this part of ISO/IEC 9834, the following terms are used and are defined in ISO 8824/CCITT X.208:

- a) information object;
- b) object identifier.

## 4 Abbreviations

ASN.1	Abstract Syntax Notation One
CCITT	International Telegraph and Telephone Consultative Committee
IEC	International Electrotechnical Commission

ISO	International Organization for Standardization
JTC 1	Joint Technical Committee 1
Q	Question

## 5 General information

5.1 The Registration Authority performs a purely administrative role in recording decisions made by the appropriate ISO/IEC Subcommittee or ISO Technical Committee and by the appropriate CCITT Study Group on the addition of an entry to the register<sup>1</sup>.

5.2 Register entries in the registers identified by these entries shall be recorded in the joint text of ISO International Standards and CCITT Recommendations.

## 6 Elements of information of register entries

The elements of information of a register entry shall be:

- a) an object identifier component value, identified by an integer value and a name drawn from the character set specified for an "identifier" in ISO 8824/CCITT X.208 (together comprising an instance of the "NameandNumberForm" for "ObjIdComponent"), each of which shall be unique within a register; and
- b) an area of joint ISO-CCITT work in which the value is to be applied, specified by the ISO work item number and number of the International Standard in which the object identifier component value is specified, and the CCITT Study Group, Study Period, and Question, and the number of the CCITT Recommendation in which the object identifier component value is specified, and a brief title; and
- c) status of the entry indicating whether the entry is "active" or "deleted"; and
- d) a "Responsible Officer" nominated by ISO and a "Responsible Officer" nominated by CCITT, who will jointly agree assignment of object identifier component values within the area of work.

The entry shall be identified by the object identifier component value.

<sup>1</sup> The volume of activity is not expected to exceed ten registrations per year.

NOTE - ISO 8824/CCITT X.208 (clause 8.3) specifies that an "identifier" shall consist of an arbitrary number (one or more) of letters, digits and hyphens and that the initial character shall be a lower case letter and that the last character shall not be a hyphen and that a hyphen shall not be immediately followed by a hyphen.

## 7 Procedures

### 7.1 Maintenance of the register

A register is to be maintained, recording for each entry the information required by clause 6.

### 7.2 Recording of entries

The register is to have new entries added as the result of simple resolutions by the appropriate ISO/IEC Subcommittee or ISO Technical Committee, ratified by decisions of the appropriate CCITT Study Group, or as the result of decisions by the appropriate CCITT Study Group, ratified by simple resolutions by the appropriate ISO/IEC Subcommittee or ISO Technical Committee.

NOTE - An entry may involve Work Items or Questions for other Subcommittees or Study Groups if requested by those other bodies.

The identifier of the object identifier component value shall be requested by the Responsible Officers of ISO and CCITT. If the identifier is already assigned within the register, or otherwise deemed inappropriate by the Registration Authority, the request shall be rejected by the Registration Authority. Otherwise the identifier shall be assigned.

The NumberForm of the object identifier component value shall be assigned by the International Registration Authority. The NumberForm assigned shall be increased sequentially by the positive integer one, i.e. +1, above the last assigned NumberForm of the object identifier component value in the register.

### 7.3 Deletion of entries

The status entry shall be updated upon activation or deletion of an entry. Entries shall be marked as deleted (but still retained) as the result of simple resolutions by the appropriate

ISO/IEC Subcommittee or ISO Technical Committee, ratified by decisions of the appropriate CCITT Study Group, or as the result of decisions by the appropriate CCITT Study Group, ratified by simple resolutions by the appropriate ISO/IEC Subcommittee or ISO Technical Committee, when no further assignments of object identifiers are expected in the area of work. The object identifier value shall never be reused.

### 7.4 Change of entries

Entries shall not be changed except to replace the ISO "Responsible Officer" or project number, or the CCITT "Responsible Officer" or Question identification.

The former changes shall require a simple resolution of the ISO Subcommittee or Technical Committee involved in the work, notified in writing to the International Registration Authority.

The latter changes shall require a decision of the CCITT Study Group involved in the work, notified in writing to the International Registration Authority.

### 7.5 Resolving disputes

It may come to pass that a dispute in the operation of the register may arise. For example, an identifier may be requested which has already been assigned in the register. Disputes shall be resolved in the following manner:

7.5.1 The international registrar shall inform the ISO Responsible Officer and the CCITT Responsible Officer that a dispute has occurred and requires resolution.

7.5.2 The Responsible Officers shall attempt to expedite the resolution of the dispute.

7.5.3 If the Responsible Officers are unable to resolve the dispute, the Convenor of the concerned ISO/IEC Working Group and the Chair of the concerned CCITT Working Party shall attempt to expedite the resolution of the dispute.

7.5.4 In the event that the Convenor and the Chair are unable to resolve the dispute, a joint ISO-CCITT object identifier shall not be assigned by the International Registration Authority of object identifiers for joint ISO-CCITT use.