

---

---

**Information technology — Open Systems  
Interconnection — Procedures for the  
operation of OSI Registration Authorities:  
Registration of Object Identifier arcs  
beneath the top-level arc jointly  
administered by ISO and ITU-T**

*Technologies de l'information — Interconnexion de systèmes ouverts  
(OSI) — Procédures opérationnelles pour les organismes  
d'enregistrement de l'OSI: Enregistrement des arcs d'identificateur  
d'objet au-dessous de l'arc de niveau supérieur administré  
conjointement par l'ISO et l'UIT-T*

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published by ISO in 2009

Published in Switzerland

## CONTENTS

	<i>Page</i>
1 Scope .....	1
2 Normative references .....	1
2.1 Identical Recommendations   International Standards .....	1
3 Definitions .....	1
3.1 ASN.1 terms .....	1
3.2 International Object Identifier tree terms.....	1
3.3 Additional definitions .....	2
4 Abbreviations .....	2
5 General information .....	2
6 Elements of information of a register entry .....	2
7 Procedures .....	3
7.1 Maintenance of the register .....	3
7.2 Recording of entries.....	3
7.3 Deletion of entries .....	3
7.4 Change of entries .....	4
7.5 Resolving disputes .....	4
Annex A – Proforma for registration.....	5
A.1 Key to register entries .....	5
A.2 An example of a possible registration entry for joint ISO and ITU-T work .....	5
A.3 An example of a possible registration entry for an international organization X .....	5

## 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 9834-3:2009 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.662 (08/2008).

This fourth edition cancels and replaces the third edition (ISO/IEC 9834-3:2005), which has been technically revised.

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 International 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*
- *Part 9: Registration of object identifier arcs for applications and services using tag-based identification*

## Introduction

ITU-T Rec. X.660 | ISO/IEC 9834-1 defines procedures for registration to meet requirements for assignment of unambiguous names to objects. These registration procedures are generally applicable to registration independent of the type of object involved. In particular, ITU-T Rec. X.660 | ISO/IEC 9834-1 defines the International Object Identifier tree, which is a tree whose nodes correspond to objects that are registered and whose non-leaf nodes may be Registration Authorities. ITU-T Rec. X.660 | ISO/IEC 9834-1 also defines procedures for the delegation of authority for the assignment of names in order to ensure that names are unambiguous. The International Object Identifier tree supports the ASN.1 object identifier and OID internationalized resource identifier types.

The root of the International Object Identifier tree is ITU-T Rec. X.660 | ISO/IEC 9834-1. There are three root arcs from this root:

<i>Primary integer value</i>	<i>Resulting integer-valued Unicode label</i>	<i>(Non-integer) Unicode label</i>	<i>Secondary identifier</i>
0	"0"	"ITU-T"	itu-t
1	"1"	"ISO"	iso
2	"2"	"Joint-ISO-ITU-T"	joint-iso-itu-t

The Registration Authority for the nodes identified by the top-level arcs with primary integer values 0 and 1 (Unicode labels "ITU-T" and "ISO") are provided by ITU-T Rec. X.660 | ISO/IEC 9834-1, Annex A. Further discussion is beyond the scope of this Recommendation | International Standard.

The operation of the Registration Authority for the node identified by the joint arc (see 3.3) is specified in this Recommendation | International Standard. The corresponding register is called the "Register of arcs beneath the top arc with primary integer value 2".

**INTERNATIONAL STANDARD  
ITU-T RECOMMENDATION****Information technology – Open Systems Interconnection – Procedures for  
the operation of OSI Registration Authorities: Registration of object  
identifier arcs beneath the top-level arc jointly administered  
by ISO and ITU-T****1 Scope**

This Recommendation | International Standard specifies the procedures for adding or modifying entries in the "Register of arcs beneath the top level arc with primary integer value 2" and for the publication of such entries.

**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.660 (2008) | ISO/IEC 9834-1:2008, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: General procedures and top arcs of the International Object Identifier tree.*
- ITU-T Recommendation X.680 (2008) | ISO/IEC 8824-1:2008, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation.*