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**Information technology — Open systems  
interconnection —**

**Part 2:  
Procedures for the object identifier  
resolution system operational agency**

*Technologies de l'information — Interconnection de systèmes  
ouverts (OSI) —*

*Partie 2: Procédures pour l'agence opérationnelle du système de  
résolution de l'identificateur d'objet*



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# Contents

Page

Foreword .....	iv
Introduction.....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>3.1 Terms defined in Rec. ITU-T X.660   ISO/IEC 9834-1 .....</b>	<b>1</b>
<b>3.2 Terms defined in Rec. ITU-T X.672   ISO/IEC 29168-1 .....</b>	<b>2</b>
<b>4 Abbreviated terms .....</b>	<b>2</b>
<b>5 Appointment of the operational agency.....</b>	<b>2</b>
<b>5.1 Formal appointment .....</b>	<b>2</b>
<b>5.2 Nominating bodies .....</b>	<b>2</b>
<b>5.3 Criteria for nominations and statements from nominees .....</b>	<b>3</b>
<b>5.4 Selection and approval of an operational agency .....</b>	<b>3</b>
<b>5.5 Term of appointment .....</b>	<b>4</b>
<b>5.6 Transfer of .oid-res.org .....</b>	<b>4</b>
<b>6 OID nodes to be supported by the operational agency.....</b>	<b>4</b>
<b>7 Operational agency support.....</b>	<b>6</b>
<b>7.1 Support for the OID nodes supported by the operational agency .....</b>	<b>6</b>
<b>7.2 ORS-support for lower-level nodes .....</b>	<b>6</b>
<b>7.3 Procedures for requesting support for lower-level nodes.....</b>	<b>7</b>
<b>8 Charging issues.....</b>	<b>7</b>

## 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 29168-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

ISO/IEC 29168 consists of the following parts, under the general title *Information technology — Open systems interconnection*:

- *Part 1: Object identifier resolution system*
- *Part 2: Procedures for the object identifier resolution system operational agency*

## Introduction

An introduction to the object identifier (OID) resolution system is provided in Rec. ITU-T X.672 | ISO/IEC 29168-1.

This part of ISO/IEC 29168 specifies the mechanisms and criteria to be applied for the selection and approval of the object identifier resolution system (ORS) operational agency. It also covers the procedures that the ORS operational agency is required to follow when managing the ORS.

The DNS zone files for .oid-res.org are required to provide ORS support for the root of the International Object Identifier tree.

These procedures include the appointment (or re-appointment) of the ORS operational agency (the operational agency).

The procedures require the operational agency to provide DNS zone file support for .oid-res.org, as well as for a specified set (see Clause 6) of top-level OID nodes [including DNSSEC (NSEC3) support for those zone files].

The operational agency is also required to support specified procedures (some, but not all, on a commercial basis) that enable the provision of ORS support for OID nodes beneath those that it is required to fully support (see Table 1).

Clause 5 specifies the approval mechanisms for the appointment of the operational agency and any necessary subsequent changes.

Clause 6 specifies the OID nodes to be supported by the operational agency.

Clause 7 specifies the nature of operational agency support.

Clause 8 addresses charging issues for services provided by the operational agency.

# Information technology — Open systems interconnection —

## Part 2: Procedures for the object identifier resolution system operational agency

### 1 Scope

**1.1** This part of ISO/IEC 29168 specifies the mechanisms and criteria to be applied for the selection and approval of the object identifier resolution system (ORS) operational agency, and includes procedures that the operational agency is required to follow.

**1.2** It also addresses any future modification of the procedures, and the procedures for any change of the operational agency.

**1.3** It lists the object identifier (OID) nodes for which the operational agency is required to provide ORS support.

**1.4** It gives the required level of support for these nodes.

**1.5** It gives the procedures by which lower-level nodes can apply for ORS support (class A, class B, or class C), and the role of the operational agency in providing these levels of support.

**1.6** It determines the basis for charges that might be levied for these levels of support.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Rec. ITU-T X.660 series | ISO/IEC 9834 (all parts), *Information technology — Open Systems Interconnection — Procedures for the operation of OSI Registration Authorities*

Rec. ITU-T X.672 | ISO/IEC 29168-1, *Information technology — Open systems interconnection — Part 1: Object identifier resolution system*