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Standard**

**ISO/IEC 29168-2**

**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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## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives) or [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs)).

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

This second edition cancels and replaces the first edition (ISO/IEC 29168-2:2011), which has been technically revised.

The main changes are as follows:

- a secondary operational agency has been introduced as a complement to the primary operational agency, along with rules for its appointment;
- requirements for the nominees for the primary operational agency have been added;
- requirements for accessing an up-to-date OID root zone file have been added.

A list of all parts in the ISO/IEC 29168 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

## Introduction

An introduction to the object identifier (OID) resolution system is provided in ISO/IEC 29168-1.

This document 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 domain name system (DNS) zone files for .oid-res.org must 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 domain name system security extension (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 fully required to 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

This document 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. It also addresses any future modification of the procedures and the procedures for any change of the operational agency.

This document:

- lists the object identifier (OID) nodes for which the operational agency is required to provide ORS support and gives the required level of support for these nodes;
- 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;
- determines the basis for charges that can be levied for these levels of support.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO/IEC 9834-1, *Information technology — Procedures for the operation of object identifier registration authorities — Part 1: General procedures and top arcs of the international object identifier tree*

ISO/IEC 9834-3, *Information technology — Open Systems Interconnection — Procedures for the operation of OSI Registration Authorities — Part 3: Registration of Object Identifier arcs beneath the top-level arc jointly administered by ISO and ITU-T*

ISO/IEC 29168-1:2023, *Information technology — Open systems interconnection — Part 1: Object identifier resolution system*