



Integrated Government Philippines Project

Filipino nation moving toward globally competitive ICT-empowered government



Information and Communications
Technology Office



Advanced Science
and Technology Institute

Object Identifier Registration Authority (OIDRA) Operations Procedure



Introduction

- For the purpose of open systems interconnection, the Philippines' Object Identifier Registration Authority (OIDRA) implements and administers a system for the registration and issuance of component values (Number Form), otherwise known as Object Identifiers (OIDs), for all organizations in the Philippines that wish to have their names publicly known and registered at a national level.
- The Department of Science and Technology– Information and Communications Technology Office (DOST-ICT Office) is designated as the OIDRA in the Philippines.

Introduction

Purpose

This OIDRA Operations Procedure is intended to serve as a guide for the designated OIDRA in the Philippines, the DOST-ICT Office, in processing OID applications and in the issuance of the result of application to the requesting organization.

Scope

This OIDRA Operations Procedure shall cover the steps that shall be followed by the Philippines' OIDRA in the processing of OID applications. This operations procedure conforms to the recommendations specified in ITU-T X.660 | ISO/IEC 9834-1.

Objectives

As an OID registration and issuing body, the OIDRA aims:

- To receive proposals to register entries and register deletions from applicant entities;
- To process proposals for entries and deletions;
- To allocate an unambiguous OID to a requesting entity;
- To convey the results, in a specified form, to the applicant entity when the processing of a proposal has been completed;
- To maintain an updated database or register and public review list of OID registered entities in the Philippines to ensure that no two organizations have been assigned the same OID;
- To conduct promotional activities to increase the awareness of OID system; and
- To conduct trainings on OID system.

Benefits to OID-Registered Organizations

- Certifying bodies shall be able to allocate OID for security elements, like public and private keys;
- Organizations shall be able to assign unique product identification numbers, such as numbers of software and hardware;
- Companies shall be able to issue unique location numbers to identify companies unambiguously as party identification; and
- Financial institutions shall be able to assign public and private keys for electronic payments.

Definition of OID

- Section 3.5.11 of the **Recommendation ITU-T X.660 | ISO/IEC 9834-1:2012** defines Object Identifier as “an ordered list of primary integer values from the root of the international object identifier tree to a node, which unambiguously identifies that node.”
- The OID Repository (oid-info.com) defines OID as “an extensively used identification mechanism jointly developed by ITU-T and ISO/IEC for naming any type of object, concept or “thing” with a globally unambiguous name which requires a persistent name (long life-time).”

What Does an OID Unambiguously Identify

Objects that OIDs can universally and uniquely identify include, but not limited to:

- Standards (ITU-T Recommendations, ISO International Standards, etc.);
- Countries, companies, projects;
- Encryption algorithms;
- ASN.1 modules, ASN.1 types;
- X.500/LDAP attributes;
- Rec. ITU-T X.509 certificates (OIDs are widely deployed in e-commerce);
- Certification policies;
- SNMP MIBs;
- ID schemes (incl. RFID, 2D bar codes, etc.)
- HL7 patient medical information; and
- Alerts and alerting agencies.

Structure of the OID

It shall follow the hierarchical structure below, based on ISO 8824:

- Arc 1: International Standards Authority
- Arc 2: National Member Body
- Arc 3: National Country Number
- Arc 4: Registration Authority
- Arc 5: Organization Registered

Structure of the OID

Take this Object Identifier (OID) as an example: **2.16.608.1.2.1.1**

Number	Description
2	Common standardization area of ISO/IEC (International Organization for Standardization/International Electrotechnical Commission) and ITU-T (International Telecommunications Union - Telecommunication Standardization Sector)
16	Joint (ITU-T and ISO/IEC) registration within a country
608	Number assigned to the Philippines
1	Number assigned to Information and Communications Technology Office-National Computer Center (ICTO-NCC)
2	Number assigned to the Philippine RootCA
1	Number assigned to Certificate Policy
1	Number assigned to specify the version of document

Operations Procedure: Processing Proposals for Register Entries from Applicant Entities

- **Receive proposals from entities** – The OIDRA shall receive proposals from entities applying for OID membership.
- **Process proposals** – The OIDRA shall search its register to check if the organization has not duplicated an existing OID, before allocating the requesting organization a unique numeric identifier
- **Record names** – The OIDRA shall record names for each register entry that is accepted, in accordance with the procedures specified in applicable ITU-T Recommendation and/or International Standard.

Operations Procedure: Processing Proposals for Register Entries from Applicant Entities

- **Transmit to the International Registration Authority**
 - Proposals received and reviewed by the OIDRA shall be transmitted to the International Registration Authority
 - the relevant ITU-T study group and/or ISO technical committee.
- **Promulgate the proposals for entries** – The requesting entity shall then be posted on the OIDRA's own public review list in a five-day period.
- **Notify the Requesting Entity** – As provided by the procedures specified in the applicable ITU-T Recommendation and/or International Standard, the OIDRA shall notify the requesting entity following the review period and absent challenges.

Operations Procedure: Processing Proposals for Deletion from the OIDRA Register

- **Receive proposals for deletion** – The OIDRA shall receive proposals from entities applying for deletion from the OIDRA register.
- **Process proposals for deletion** – The OIDRA shall process the proposals for deletion, according to the specified procedures in the applicable ITU-T Recommendation and/or International Standard.
- **Transmit the proposals for deletion to the International Registration Authority** – Proposals for deletion received by the OIDRA shall be transmitted to the International Registration Authority – the relevant ITU-T study group and/or ISO technical committee.

Operations Procedure: Processing Proposals for Deletion from the OIDRA Register

- **Promulgate the register deletions** – The OIDRA shall promulgate in its OID Repository or public review list the register deletions in a five-day period.
- **Convey the results to the Requesting Entity** – Following the promulgation of the register deletions, the OIDRA shall convey the results to the requesting entity through a specified form. It shall be specifically noted that the name of a deleted object shall not be reused by the entity.

OID Application Process for Applicant Entities

- The requesting entity shall fill-up the application form.
- The requesting entity shall attach additional requirements, in accordance with Section 9.2 of the Recommendation ITU-T X.660 | ISO/IEC 9834-1, including the following:
 - The justification of the need for the registration; and
 - A statement of the scope of objects to be registered.
- The requesting entity shall also attach the relevant documents specified in the document to the application form.
- After the five-day review period and absent challenges, the requesting entity shall receive a specified form from the OIDRA indicating the result of the application.

Criteria for Rejection of a Proposal

Section 9.2 (h) of the Recommendation ITU-T X.660 | ISO/IEC 9834-1 specifies the criteria for a rejection of a proposal, including:

- Incomplete or incomprehensible definition;
- Existence of an identical or similar entry in the register;
- The proposed entry is not one of the permitted entries;
- The proposed entry does not conform to an ITU-T Recommendation and/or International Standard listed in the References of the appropriate ITU-T Recommendation and/or International Standard; and
- The justification for inclusion in the register is not adequate.

Where to download a copy?

VISIT:

<http://i.gov.ph/object-identifier-registration-authority-oidra-operations-procedure/>

For inquiries, contact: inquiry@i.gov.ph