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SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

OSI networking and system aspects – Naming, Addressing and Registration

Procedures for ITU-T registration of identified organizations

ITU-T Recommendation X.669

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ITU-T Recommendation X.669

Procedures for ITU-T registration of identified organizations

Summary

This Recommendation specifies registration procedures for allocating ASN.1 object identifier arcs beneath the **{itu-t(0) identified-organization(4)}** arc to members of ITU-T that have a requirement to use ASN.1 object identifiers.

Source

ITU-T Recommendation X.669 was approved on 22 August 2004 by ITU-T Study Group 17 (2001-2004) under the ITU-T Recommendation A.8 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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ITU-T Recommendation X.669

Procedures for ITU-T registration of identified organizations

1 Scope

This Recommendation:

a) specifies requirements for the operation of the Registration Authority that registers arcs immediately below the `{itu-t(0) identified-organization(4)}` arc; and

b) identifies the Registration Authority of this arc.

Once a new arc is registered under the `{itu-t(0) identified-organization(4)}` arc, the identified organization is delegated the authority to register names for arcs under that new arc.

2 Normative references

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

2.1 Identical Recommendations | International Standards

– ITU-T Recommendation X.660 (2004) | ISO/IEC 9834-1:2004, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: General procedures*.

– ITU-T Recommendation X.666 (2004) | ISO/IEC 9834-7:2004, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Joint ISO and ITU-T registration of international organizations*.

– ITU-T Recommendation X.680 (2002) | ISO/IEC 8824-1:2002, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation*.

3 Definitions

This Recommendation defines the following terms.

3.1 Registration terms

This Recommendation uses the following terms defined in ITU-T Rec. X.660 | ISO/IEC 9834-1:

a) administrative role;

b) primary integer value;

c) registration-hierarchical-name-tree (RH-name-tree);

d) secondary identifier.

3.2 ASN.1 terms

This Recommendation uses the following terms defined in ITU-T Rec. X.680 | ISO/IEC 8824-1:

a) "NumberForm";

b) object identifier.

4 Abbreviations

This Recommendation uses the following abbreviations:

ASN.1 Abstract Syntax Notation One

ROA Recognized Operating Agency

SIO Scientific or Industrial Organization

5 General

5.1 ITU-T Rec. X.660 | ISO/IEC 9834-1 defines general procedures for registration that are independent of the object involved. It allows for other Recommendations or International Standards to define procedures that are specific to objects of a particular type. This Recommendation specifies registration procedures for registration of various types of names for ITU-T use.

5.2 Arcs registered below the `{itu-t(0)}` arc are listed in ITU-T Rec. X.660 | ISO/IEC 9834-1, Annex A, and in ITU-T Rec. X.680 | ISO/IEC 8824-1, Annex D.

6 Registration of new arcs

6.1 The Registration Authority for the `{itu-t(0)}` arc is defined in ITU-T Rec. X.660 | ISO/IEC 9834-1.

6.2 ITU-T Rec. X.660 | ISO/IEC 9834-1 shall be used for the purpose of registration of new arcs below the `{itu-t(0)}` arc.

6.3 If a new arc is established in ITU-T Rec. X.660 | ISO/IEC 9834-1 below the `{itu-t(0)}` arc, the registration procedures to register values below the new arc will be added to that Recommendation.

6.4 Registration procedures for the following six arcs below the `{itu-t(0)}` arc are specified in ITU-T Rec. X.660 | ISO/IEC 9834-1, Annex A, and in ITU-T Rec. X.680 | ISO/IEC 8824-1, Annex D:

a) recommendation(0)

b) question(1)

c) administration(2)

d) network-operator(3)

e) identified-organization(4)

f) r-recommendation(5)

7 Registration procedures for identified organization names

7.1 Scope

7.1.1 This clause specifies registration procedures for the Registration Authority of identified organization names.

7.1.2 An identified organization name comprises a primary integer value and a secondary identifier.

NOTE – The primary integer value is unique within the naming domain. The secondary identifier is normally unique, but does not have to be (see 7.8).

7.1.3 The identified organization name is used to form object identifiers as specified in ITU-T Rec. X.680 | ISO/IEC 8824-1.

7.2 ITU-T and ISO requirements

7.2.1 Requirements of ITU-T Rec. X.680 | ISO/IEC 8824-1

7.2.1.1 Object identifiers are used in many applications to identify open systems objects.

7.2.1.2 ITU-T Rec. X.680 | ISO/IEC 8824-1 specifies the object identifier name type as an ordered list of object identifier components values. The primary integer value assigned by the Registration Authority is used for the "NumberForm", and the secondary identifier is used for the "identifier", both specified in ITU-T Rec. X.680 | ISO/IEC 8824-1.

7.2.1.3 The secondary identifier shall use only the character set comprising:

a) the letters **a** to **z**, lower case only;

b) the digits **0** to **9**; and

c) hyphen.

The primary integer value shall use only non-negative integer numbers.

7.2.2 Requirements of ITU-T Rec. X.660 | ISO/IEC 9834-1

ITU-T Rec. X.660 | ISO/IEC 9834-1 specifies the hierarchical structure within which objects are registered. In this structure, the Registration Authority that registers identified organization names is identified as follows:

{itu-t(0) identified-organization(4)}

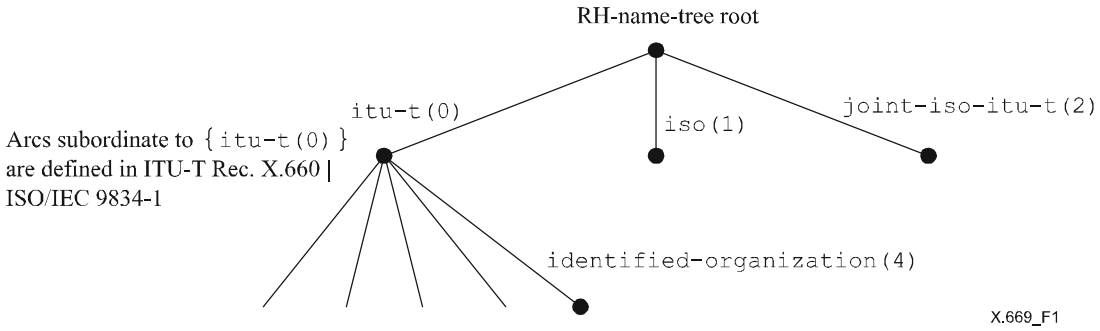

Figure 1/X.669 – Object

7.3 Register of identified organization names

7.3.1 Identified organization names are registered immediately below the following arc:

{itu-t(0) identified-organization(4)}

7.3.2 The applicant provides the secondary identifier to be registered as described in 7.2.1.

7.3.3 The content of the register may be published or made available on request.

7.4 Registration authority

The Registration Authority performs an administrative role as specified in ITU-T Rec. X.660 | ISO/IEC 9834-1.

7.5 Application submission

An application to register a new identified organization name can be submitted only by an ITU-T member. Only ITU-T members may register name values under the **{itu-t(0) identified-organization(4)}** arc.

NOTE – Members of ITU-T are Administrations (which are members by right of the ITU) plus ITU-T Sector Members (ROAs, SIOs, etc.).

7.6 Application information

The application to register a new primary integer value must include the following information:

- name of the ITU-T member submitting the application;
- name, postal address, telephone number/facsimile number or e-mail address for a contact point of the ITU-T member applying for registration;
- the secondary identifier that the applicant wishes to register.

7.7 Registrar's decision

The Registration Authority reviews the applications and:

1) approves the application; or
2) asks for more information from the applicant; or
3) rejects the application.

7.8 Value assignments

Unique primary integer values are assigned by the Registration Authority to each entry in the `{itu-t(0) identified-organization(4)}` naming domain. The assigned primary integer value shall be increased sequentially by the positive integer one, i.e., +1, above the last assigned value. The secondary identifier, submitted by the applicant, will be registered as requested.

NOTE – The secondary identifier is associated with the primary integer value but its value does not have to be unique. Only the primary integer value is used to unambiguously identify an object. However, if the requested secondary identifier already exists in the register, the applicant shall be advised of this so that the applicant may resubmit a new value for the secondary identifier or justify the choice for duplication.

7.9 Registered information maintenance

For each entry in the register, the Registration Authority maintains the information specified above for the application, and in addition the:

- identity and contact information of the owner of the name;
- name values assigned;
- date of issuing of the approval.

7.10 Registrar's responsibilities

The following are the responsibilities of the Registration Authority:

- receive, consider, and approve or reject applications;
- inform the applicant of the decision made regarding the applicant's application;
- delegate the authority to register names of arcs subordinate to the assigned arc;
- promulgate information on the new registered arc.

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