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SERIES X: DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

OSI networking and system aspects – Naming, Addressing and Registration

Procedures for the registration of arcs under the Alerting object identifier arc

Recommendation ITU-T X.674

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Recommendation ITU-T X.674

Procedures for the registration of arcs under the Alerting object identifier arc

Summary

Recommendation ITU-T X.674 provides for the registration of object identifier (OID) arcs which enable identification of different kinds of alerts and alerting agencies. This Recommendation specifies the information and justification to be provided when requesting an OID for alerting purposes, and the procedures for the operation of the Registration Authority.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T X.674	2011-02-13	17

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). 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, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

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Procedures for the registration of arcs under the Alerting object identifier arc

1 Scope

This Recommendation specifies the procedures for the registration of arcs to identify (all kinds of) alerts and alerting agencies under the Alerting object identifier arc **`{joint-iso-itu-t(2) alerting(49)}`**.

2 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.

[ITU-T X.660] Recommendation ITU-T 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 X.680] Recommendation ITU-T X.680 (2008) | ISO/IEC 8824-1:2008, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation*.

[ISO/IEC 10646] ISO/IEC 10646:2003, *Information technology – Universal Multiple-Octet Coded Character Set (UCS).*

NOTE – Recommendation ITU-T T.55 recommends the use of [ISO/IEC 10646] for the representation of the languages of the world.

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

3.1.1 object identifier [ITU-T X.660]: An ordered list of primary integer values from the root of the international object identifier tree to a node, which unambiguously identifies that node.

3.1.2 primary integer value [ITU-T X.660]: A primary value of type integer used to unambiguously identify an arc of the international object identifier tree.

3.1.3 registration [ITU-T X.660]: The assignment of an unambiguous name to an object in a way which makes the assignment available to interested parties.

3.1.4 Registration Authority [ITU-T X.660]: An entity such as an organization, a standard or an automated facility that performs registration of one or more types of objects.

3.1.5 registration procedures [ITU-T X.660]: The specified procedures for performing registration and amending (or deleting) existing registrations.

3.1.6 secondary identifier [ITU-T X.660]: A secondary value restricted to the characters forming an (ASN.1) identifier (see [ITU-T X.680]), assigned either in an ITU-T Recommendation, an International Standard or by some other Registration Authority to an arc of the OID tree.

NOTE – An arc of the international object identifier tree can have zero or more secondary identifiers.

3.1.7 secondary value [ITU-T X.660]: A value of some type associated with an arc that provides additional identification useful for human readers, but that does not in general unambiguously identify that arc, and is not normally included in computer communications.

3.1.8 Unicode character [ITU-T X.660]: A character from the Unicode character set.

3.1.9 Unicode character set [ITU-T X.660]: The set of coded characters specified in [ISO/IEC 10646].

3.2 Terms defined in this Recommendation

This Recommendation defines the following terms:

3.2.1 administrative role (of the Registration Authority) (derived from [ITU-T X.660]): Assigning and making available unambiguous names according to this Recommendation.

3.2.2 alert: A warning or alarm message concerning an impending danger or problem.

3.2.3 alerting agency: A national, regional or international entity responsible for the management of alerts.

3.2.4 alert category: A classification of alerts according to the general nature of the related topic.

NOTE – Examples could be health, the World Health Organization (WHO), weather, the World Meteorological Organization (WMO), food, the Food and Agriculture Organization (FAO), etc.

3.2.5 OID internationalized resource identifier (derived from [ITU-T X.660]): An ordered list of Unicode labels from the root of the international object identifier tree that unambiguously identifies the node in that tree.

3.2.6 primary value (derived from [ITU-T X.660]): A value of a specified type assigned to an arc of the International OID tree that can provide an unambiguous identification of that arc within the set of arcs from its superior node.

3.2.7 relevant Question(s): The ITU-T Question(s) responsible for the maintenance of this Recommendation.

3.2.8 technical role (of the Registration Authority) (derived from [ITU-T X.660]): Verifying that an application for registration of an OID arc is in accordance with this Recommendation.

3.2.9 Unicode label (derived from [ITU-T X.660]): A primary value that consists of an unbounded sequence of Unicode characters that does not contain the `SPACE` character (see clause 7.2.5 of [ITU-T X.660] for other restrictions) used to unambiguously identify an arc of the OID tree.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

OID	Object Identifier
OID-IRI	OID Internationalized Resource Identifier
RA	Registration Authority
UN	United Nations

5 Conventions

None.

6 General

6.1 This Recommendation defines procedures for registration of arcs under the Alerting OID arc `{joint-iso-itu-t(2) alerting(49)}`.

6.2 According to the requirements and rules of [ITU-T X.660], ITU-T Study Group 17 (responsible for maintaining this Recommendation) is the RA for allocation of arcs under the Alerting OID arc (by the progression of amendments to this Recommendation). The RA is operated by the relevant Question(s).

6.3 As the RA for the Alerting OID arc, this Recommendation records the primary integer value, secondary identifiers and Unicode labels assigned to each subsequent arc identifying an alert category (see Annex A).

6.4 Each RA being assigned a subsequent arc by this Recommendation is then responsible for the allocation of further subsequent arcs in accordance with [ITU-T X.660].

7 Responsibilities of the relevant Question(s) operating the RA

7.1 The relevant Question(s) play both the technical role and the administrative role of the RA in accordance with the provisions of this Recommendation.

7.2 With regard to the initial assignment of primary values, the responsibilities of the relevant Question(s) are as follows:

a) to receive applications for the allocation of an arc (the required content of the application is specified in clause 9.1);

b) for each assigned arc, to produce an amendment to this Recommendation in order to add to Annex A a record of the assigned primary value, any secondary values and the specification of an alert category that is being registered.

7.3 If the application is accepted according to the criteria of clause 8, the arc is allocated and a registration announcement is sent to the applicant as specified in clauses 9.2 and 9.3.

7.4 If the application is not accepted, the application is rejected by sending a notice of rejection as specified in clauses 9.3 and 9.4. The appeals process is specified in clause 10.

8 Criteria for acceptance

8.1 An application is accepted if, in the technical judgment of the relevant Question(s), the requested OID will identify an alert category to be used on a worldwide basis.

8.2 It is a requirement that the alert category be identified in a publicly available specification produced by a standardization body recognized by ITU-T, ISO or IEC, by a UN agency or by an internationally recognized consortium.

NOTE – This excludes specifications produced by a single company or organization.

8.3 The application shall identify the time-scale within which the relevant alert category is to be applied within applications or services. The application is rejected if the time-scale exceeds 12 months, and can be voided if it is not in use within that time-scale.

NOTE – The primary integer value of a voided application shall not be reused within the next five years.

8.4 The applications or services for which the allocation is requested shall be applications or services which require interchange between multiple vendors in an open environment.

8.5 An application for registration, containing the information specified in clause 9.1 is sent to the relevant Question(s). The application is submitted by the standardization body (recognized by ITU-T, ISO or IEC), by the UN agency or by the internationally recognized consortium (see clause 8.2).

9 Detailed procedures for the operation of the RA

9.1 Registration application

The application shall include at least the following information:

a) name of the organization submitting the application;

b) name, postal mail address, e-mail address, and optionally telephone and fax numbers for the contact point within the requesting organization;

c) full identification of the person submitting the application (including his or her role in the organization);

d) a reference to an openly accessible specification (see clause 8.2) of the alert category for which an arc is being requested;

e) (optionally) any desired secondary identifier(s); and

f) (optionally) any desired Unicode label(s).

9.2 Registration announcement

The relevant Question(s) shall send a registration announcement to an applicant when the amendment adding the new arc to this Recommendation (see clause 7.2, numeral b)) has been approved. The registration announcement includes at least the following information:

a) the name of the organization submitting the application and the reference number of the application;

b) the name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization;

c) full identification of the person submitting the application (including his or her role in the organization);

d) the primary value assigned;

e) any confirmed secondary identifier(s); and

f) any confirmed Unicode label(s).

9.3 Timescale for processing applications

9.3.1 The technical evaluation by the relevant Question(s) is expected to be completed within eight weeks of receipt of the application by the RA. If the application is acceptable, the relevant Question(s) produce a draft amendment (or a revision) to this Recommendation (see clause 7.2, numeral b)) and publish it as a temporary document for consideration at the next plenary meeting of the ITU-T study group responsible for the maintenance of this Recommendation.

9.3.2 Once the amendment (or a revision) to this Recommendation has been approved, the allocation and the results of the application are sent to the applicant (see clause 9.2) and will be part of the amended Annex A.

9.4 Notice of rejection

The relevant Question(s) shall send a notice of rejection to an applicant when the assignment of a new arc has been rejected. The notice of rejection shall include at least the following information:

a) the name of the organization submitting the application and the reference number of the application;

b) the name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization;

c) full identification of the person submitting the application (including his or her role in the organization);

d) the desired secondary identifier(s);

e) the desired Unicode label(s); and

f) the reason for rejection.

9.5 Change of registration information

The alert category identified by an allocated OID shall not change significantly from the alert category identified in the original application, but supporting information, such as the information provided in clause 9.1, numeral b), may change from time to time. The relevant Question(s) shall be notified of all such changes, and shall update the register (see Annex A) if the changes are substantive enough, maintaining an audit trail of earlier information.

10 Appeals process

10.1 In response to a notice of rejection, the applicant can submit to the relevant Question(s) a supplement to its original application that responds to the reason(s) for rejection.

10.2 Any subsequent appeal shall be resolved by the ITU-T study group responsible for the maintenance of this Recommendation.

Annex A

Register of arcs allocated under the Alerting OID arc

(This annex forms an integral part of this Recommendation)

Allocation of arcs for other alert categories will be done by the addition of further tables in this register by way of publishing an amendment to this Recommendation.

The RA shall make best efforts to provide a publicly available web page detailing entries in the register, with email addresses protected against robot harvesting.

NOTE – It is recommended to also update the OID repository at http://www.oid-info.com/get/2.49.

Name of the organization to which the alert category is assigned	World Meteorological Organization (WMO)
Specification of the alert category being identified	In collaboration with the WMO Public Weather Services Programme, entries in the WMO Register of Alerting Authorities shall be maintained by the editors designated by the Permanent Representatives (PRs) to the WMO of national WMO Members. In addition, OIDs can be used to identify alerting messages. The WMO Register of Alerting Authorities is available at http://www.wmo.int/alertingorg.
Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization	Ms Haleh Kootval Chief, WMO Public Weather Services Programme 7 bis, avenue de la Paix Case postale 2300 CH-1211 Genève 2 Switzerland Tel.: +41 22 730 8333 Fax: +41 22 730 8021 E-mail: HKootval@wmo.int Webpage: http://www.wmo.int/pws
Reference to an openly accessible specification of the alert category	"*Administrative procedure for registering WMO alerting identifiers*" (Document WMO/TD No. 1556)
Assigned primary integer value	`0`
Confirmed secondary identifier(s)	`wmo`
Confirmed Unicode label	WMO
Date of allocation	13 February 2011
Resulting OID	`{joint-iso-itu-t(2) alerting(49) wmo(0)}`
Resulting ASN.1 OID-IRI	`/Alerting/WMO`

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