INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.666
(08/97)

SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATION

OSI networking and system aspects – Naming, Addressing and Registration

Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Assignment of international names for use in specific contexts

ITU-T Recommendation X.666

(Previously CCITT Recommendation)

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INTERNATIONAL STANDARD 9834-7

ITU-T RECOMMENDATION X.666

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – PROCEDURES FOR THE OPERATION OF OSI REGISTRATION AUTHORITIES: ASSIGNMENT OF INTERNATIONAL NAMES FOR USE IN SPECIFIC CONTEXTS

Summary

This Recommendation | International Standard specifies procedures for Registration Authorities that are responsible for the assignment to international organizations of names that are globally unambiguous in the context of: O/R addresses, Directory names and Object identifiers.

Source

The ITU-T Recommendation X.666 was approved on the 9th of August 1997. The identical text is also published as ISO/IEC International Standard 9834-7.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The 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 Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The 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, the 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

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – PROCEDURES FOR THE OPERATION OF OSI REGISTRATION AUTHORITIES: ASSIGNMENT OF INTERNATIONAL NAMES FOR USE IN SPECIFIC CONTEXTS

1 Scope

This Recommendation | International Standard specifies procedures for Registration Authorities that are responsible for the assignment to organizations of names that are globally unambiguous in the context of:

a) O/R addresses, as defined in ITU-T Rec. X.402 | ISO/IEC 10021-2;

b) Directory names, as defined in ITU-T Rec. X.501 | ISO/IEC 9594-2;

c) object identifiers, as defined in ITU-T Rec. X.680 | ISO/IEC 8824-1.

2 References

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

2.1 Identical Recommendations | International Standards

– ITU-T Recommendation X.402 (1995) | ISO/IEC 10021-2:1996, *Information technology – Message Handling Systems (MHS) – Overall architecture*.

– ITU-T Recommendation X.500 (1993) | ISO/IEC 9594-1:1995, *Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services*.

– ITU-T Recommendation X.501 (1993) | ISO/IEC 9594-2:1995, *Information technology – Open Systems Interconnection – The Directory: Models*.

– ITU-T Recommendation X.520 (1993) | ISO/IEC 9594-6:1995, *Information technology – Open Systems Interconnection – The Directory: Selected attribute types*.

– CCITT Recommendation X.660 (1992) | ISO/IEC 9834-1:1993, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: General procedures*.

– ITU-T Recommendation X.680 (1994) | ISO/IEC 8824-1:1995, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation*.

3 Definitions

3.1 For the purposes of this Recommendation | International Standard, the following terms are incorporated by reference from ITU-T Rec. X.680 | ISO/IEC 8824-1:

a) NameAndNumberForm;

b) NumberForm;

    c)   numericString;

    d)   object identifier;

    e)   printableString;

    f)   teletexString;

    g)   universalString.

3.2   For the purposes of this Recommendation | International Standard, the following terms are incorporated by reference from ITU-T Rec. X.501 | ISO/IEC 9594-2:

    a)   Directory Information Tree;

    b)   Directory System Agent;

    c)   directory name;

    d)   relative distinguished name.

3.3   For the purposes of this Recommendation | International Standard, the following terms are incorporated by reference from ITU-T Rec. X.520 | ISO/IEC 9594-6:

    a)   Country Name;

    b)   Organization Name.

3.4   For the purposes of this Recommendation | International Standard, the following terms are incorporated by reference from CCITT Rec. X.660 | ISO/IEC 9834-1:

    a)   registration;

    b)   registration procedures;

    c)   sponsoring authority.

3.5   For the purposes of this Recommendation | International Standard, the following terms are incorporated by reference from ITU-T Rec. X.402 | ISO/IEC 10021-2:

    a)   administration-domain-name;

    b)   country-name;

    c)   management domain;

    d)   O/R address;

    e)   private-domain-name;

    f)   standard attribute.

3.6   The following terms are used in this Recommendation | International Standard, and are defined here:

3.6.1   **international name**: A name that is globally unambiguous in some context.

3.6.2   **international ADMD name**: An ADMD name which can be used in the formation of O/R addresses which contain a country name standard attribute value of XX, identifying the Registration Authority operating under the provisions of this Recommendation | International Standard.

3.6.3   **international PRMD name**: A PRMD name which can be used in the formation of O/R addresses which contain a country name standard attribute value of XX, identifying the Registration Authority operating under the provisions of this Recommendation | International Standard, and an ADMD name attribute value of a single space.

3.6.4   **international organization name**: An Organization Name value which can be used in an RDN that, without qualification by a Country Name RDN, is the directory name of the entry for the organization concerned.

3.6.5   **international object identifier component value**: An object identifier component value that is defined within the context of the "asn.1" arc under the "joint-iso-itu-t" arc of the object identifier tree.

4 Abbreviations

For the purposes of this Recommendation | International Standard, the following abbreviations apply:

ADMD	Administration Management Domain
ADMD name	Administration-domain-name
ASN.1	Abstract Syntax Notation One
CCITT	International Telegraph and Telephone Consultative Committee
DIT	Directory Information Tree
DSA	Directory System Agent
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
ITO	International Treaty Organization
ITU	International Telecommunication Union
ITU-T	International Telecommunication Union – Telecommunication Standardization Sector
JTC 1	Joint Technical Committee 1
MD	Management Domain
MHS	Message Handling System
MTS	Message Transfer System
PRMD	Private Management Domain
PRMD name	private-domain-name
Q	Question
RDN	Relative Distinguished Name

5 General

5.1   CCITT Rec. X.660 | ISO/IEC 9834-1 defines procedures that are generally applicable to the registration of objects. It allows for other Recommendations | International Standards to define procedures for registration of specific objects.

5.2   This Recommendation | International Standard defines procedures for registration that assigns international names to organizations, where the term international name denotes a name that is globally unambiguous within a specific context. This Recommendation | International Standard covers three kinds of international name:

   a)   international ADMD and PRMD names for use in O/R addresses as defined in ITU-T Rec. X.402 | ISO/IEC 10021-2;

   b)   international organization names for use in directory names as defined in ITU-T Rec. X.501 | ISO/IEC 9594-2;

   c)   international object identifier component values for organizations for use in object identifiers as defined in ITU-T Rec. X.680 | ISO 8824-1.

5.3   A separate Registration Authority is responsible for the assignment of each kind of international name and there is only one Registration Authority for each kind of international name. The same entity may act as more than one of the authorities.

5.4   An organization that requires the assignment of equivalent name values for different kinds of name must make appropriate registration requests to each of the separate registration authorities.

6 Operation of registration authorities

6.1 The general operation of registration authorities is defined in 7.2 of CCITT Rec. X.660 | ISO/IEC 9834-1. Specific procedures for each kind of international name are defined in the annexes to this Recommendation | International Standard as follows:

    a)   procedures for the assignment of international MD names are defined in Annex A;

    b)   procedures for the assignment of international organization names are defined in Annex B;

    c)   procedures for the assignment of international object identifier component values for organizations are defined in Annex C.

6.2 Subclause 7.2 of CCITT Rec. X.660 | ISO/IEC 9834-1 and the annexes to this Recommendation | International Standard define the principles governing the registration procedures to be applied. The Registration Authorities themselves define the mechanisms through which the principles are realized (e.g. through electronic operations), subject to the approval of ITU-T | ISO/IEC.

7 Appointment of registration authorities

It is within the mandate of ITU-T and ISO/IEC to organize registration as specified in this Recommendation | International Standard. In order to do this, ITU-T and ISO/IEC appoint, according to their internal requirements and rules, an organization to act as the Registration Authority for each kind of name covered by this Recommendation | International Standard.

8 Fees

8.1 An organization providing a Name Registration Authority function does so on a cost recovery basis. The fee structure is designed to recover the expenses of operating a Name Registration Authority, and to discourage frivolous and multiple requests.

8.2 The fee values are determined by the Name Registration Authority, subject to the approval of ITU-T | ISO/IEC. Fees can apply to:

    a)   registration;

    b)   inquiry request;

    c)   publication request;

    d)   request for update;

    e)   name retention.

Annex A

The assignment of international ADMD and PRMD names

(This annex forms an integral part of this Recommendation | International Standard)

A.1   Purpose

The purpose of this annex is to define procedures for the assignment of international ADMD and PRMD names to organizations for use in O/R addresses as defined in ITU-T Rec. X.402 | ISO/IEC 10021-2.

A.2   Requirements from ITU-T Rec. X.402 | ISO/IEC 10021-2

A.2.1   ADMD and PRMD names are used in several elements of MHS protocols specified in the ITU-T X.400-Series of Recommendations | ISO/IEC 10021. Two syntaxes are specified for ADMD and PRMD name values: numericString and printableString.

A.2.2   The procedures defined in this annex provide for the assignment, as international ADMD and PRMD names, of alphanumeric name values comprising characters from the printableString character set. In accordance with the requirements of ITU-T Rec. X.402 | ISO/IEC 10021-2, these names are limited in length to 16 characters.

A.2.3   Where an assigned name value consists solely of digits and spaces, then the equivalent numericString name is also regarded as assigned.

> NOTE – A printableString comprising solely digits and spaces is equivalent to a numericString.

A.2.4   In the handling of name values for registration purposes:

    a)   comparison is case insensitive;

    b)   multiple consecutive spaces are treated as a single space;

    c)   leading and trailing spaces are not treated as part of the name value;

    d)   name values of a single space or single zero are not registered.

A.3   Use of names

There is a single register of international MD names. Each entry in the register has an indication whether the associated name value is used as an ADMD name or a PRMD name.

> NOTE 1 – For ADMD and PRMD names to be used within message handling systems conforming to ITU-T Rec. X.402 | ISO/IEC 10021-2, it is necessary to specify procedures for identifying names and associated Registration Authorities within concrete protocols. Such procedures exist for ADMD and PRMD names registered within the context of a specific country name. Procedures for international ADMD and PRMD names, as defined in this Recommendation | International Standard, are under study.

> NOTE 2 – Recommendations specifying MTS behaviour for voluntary participation in an international MD name structure may place additional requirements on the use of international ADMD and PRMD names assigned according to the procedures defined in this annex.

A.3.1   Use of international ADMD names

A.3.1.1   An ADMD name assigned by the procedures defined in this annex can be used in the formation of O/R addresses which contain a country name standard attribute value of XX, identifying the Registration Authority operating under the provisions of this Recommendation | International Standard.

A.3.1.2   The assignment of an ADMD name to an organization also delegates to that organization the authority to assign standard attributes for O/R addresses within the context of that name, subject to the constraints defined in ITU-T Rec. X.402 | ISO/IEC 10021-2.

A.3.2   Use of international PRMD names

A.3.2.1   A PRMD name assigned by the procedures defined in this annex can be used in the formation of O/R addresses which contain a country name standard attribute value of XX, identifying the Registration Authority operating under the provisions of this Recommendation | International Standard, and an ADMD name attribute value of a single space.

A.3.2.2   The assignment of a PRMD name to an organization also delegates to that organization the authority to assign O/R address components within the context of that name subject to the constraints defined in ITU-T Rec. X.402 | ISO/IEC 10021-2.

A.4   Registration procedures

This subclause specifies the procedures to be followed in the assignment of international ADMD and PRMD names to organizations. The procedures are designed to assure openness and due process in the registration process.

A.4.1   Application for registration

A.4.1.1   An ITO submits an application directly to the Registration Authority. Other applications are submitted through a Sponsoring Authority. The content of the application is defined in A.6.1.

A.4.1.2   Upon successful completion of the procedures specified in this annex, the alphanumeric value supplied by the applicant as constrained by the rules in A.2, is registered as assigned.

A.4.1.3   When applicants require multiple names, they must submit a separate application for each name.

A.4.2   Review of applications

A.4.2.1   Procedure

A.4.2.1.1   Since an alphanumeric name may have meaning outside the registration process, in order for an application to be processed, it shall contain a signed statement asserting the applicant's right to the name. If the statement is missing, the application is rejected by sending a notice of rejection as specified in A.6.6, citing this subclause as the reason for the rejection.

> NOTE – In the context of registration the signed statement is collected for recording purposes only. The statement may be useful, for example, in the Sponsoring Authority challenge process; however, such use is outside the scope of this Recommendation | International Standard.

A.4.2.1.2   If the application does not contain the information specified in A.6.1, the application is rejected by sending a notice of rejection as specified in A.6.6, citing this subclause as the reason for rejection.

A.4.2.1.3   If a new application arrives for an alphanumeric name that has already been requested, but the previous request has not yet been confirmed, the following process is followed:

    a)   If the new application arrives before the confirmation process for the previous application has started, then both applications are rejected by sending a notice of rejection as specified in A.6.6, citing this subclause as the reason for rejection.

    b)   If the new application arrives after the confirmation process for the previous application has started, then the new application is put on hold until the confirmation process for the previous application is completed. The new applicant is immediately notified that a previous application for the name requested is in the confirmation process defined by this subclause. If the confirmation is successful, then the new application is rejected by sending a notice of rejection as specified in A.6.6, citing this subclause as the reason for rejection. If the confirmation is not successful, then the new application continues with the confirmation process.

A.4.2.1.4   If the application is accepted, it is put into the confirmation process specified in A.4.3.

A.4.2.2   Response time

A.4.2.2.1   To the extent practicable, review of an application under the procedures specified in A.4.2.1 is completed within 10-working days of the receipt of the application.

A.4.2.2.2   The Registration Authority may batch together several applications for registration when communicating the confirmation requests to Sponsoring Authorities. Nevertheless, the beginning of the confirmation process for any application is not delayed by more than 2 months from the date at which the application was submitted.

A.4.2.3   Unprocessable applications

An application is unprocessable if the requested name value does not comply with the requirements specified in A.2. The application is rejected by sending a notice of rejection as specified in A.6.6, citing this subclause as the reason for the rejection.

A.4.3 Confirmation process

A.4.3.1 The requested name value is compared with all other name values in the Register. If the name value is a duplicate, the request is rejected by sending a notice of rejection as specified in A.6.6, citing this subclause as the reason for the rejection. If the supplied value is not a duplicate, it is entered into the Review List. The Review List is published and a request for confirmation as specified in A.6.2 is sent to each Sponsoring Authority.

A.4.3.2 The review period is at least 6 months. The start and end dates of the review period are published. To the extent practicable, notice of the publication of the supplied name value and of the start of the review period are sent to the applicant within 20-working days.

A.4.3.3 Sponsoring organizations respond to the request for confirmation in the form specified in A.6.3. Abstention, or the absence of a reply from a sponsoring organization within the specified review period, is considered as a confirmation by that sponsoring authority that the name value can be used within the context for which it is responsible.

A.4.3.4 If there is unanimous confirmation of the assignment of the requested name value at the end of the review period (i.e. if no sponsoring organization objects), then the name value is removed from the Review List and entered in the Register and an announcement of registration as specified in A.6.5 is sent to the applicant. The announcement of registration is sent within 10-working days of the close of the review period.

A.4.3.5 If there is not unanimous confirmation of the assignment of the requested name value, then the name value is removed from the Review List and a notice of rejection as specified in A.6.6, is sent to the applicant, citing this clause as the reason for the rejection. The notice of rejection is sent within 10-working days of the close of the review period.

A.4.3.6 Neither the Registration Authority nor ITU-T | ISO/IEC play any role in the resolution of disputes over the use of names. Such disputes are assumed to be resolved by action outside the provisions of this Recommendation | International Standard followed by new applications to the Registration Authority.

A.5 Register

A.5.1 Maintenance

A.5.1.1 The Registration Authority maintains a Register of assigned name values, together with the information specified in A.6.10. The Registration Authority is responsible for defining the internal procedures necessary for the maintenance of the Register.

A.5.1.2 Of the information elements specified in A.6.10, the assigned name value, the initial submitting organization, the initial requesting organization name and address, the initial requester name and title, and the initial date of registration are not updated. All other information elements can be updated by the Registration Authority when requested to do so in the form specified in A.6.11 by an official of the organization to which the name has been assigned or, if an official of the organization does not exist, by the Sponsoring Authority for the assignment of the name value.

A.5.1.3 A Sponsoring Authority can request that an entry in the Register be marked as *invalid* for the context for use of the name value with which it is concerned. Such a request could result, for example, from a challenge process operated by the sponsoring authority or from the determination that intellectual property rights are being violated. Since the request is based on information not available at the time of the confirmation process, in general it is granted. However, the *invalid* mark will not be posted in the entry until at least one year after the request is accepted in order to allow sufficient time for users of the name value to accommodate the change.

A.5.1.4 When an *invalid* mark is put on a Register entry, then the name value for the entry cannot be used in the context for use of the name that has been specified by the corresponding Sponsoring Authority. As soon as the request to post an *invalid* mark is granted, the Registration Authority promulgates the information to all Sponsoring Authorities.

A.5.1.5 A Sponsoring Authority or an ITO can request the deletion of a Register entry for which it is responsible. When a Register entry is deleted, the name value in the entry is no longer usable. The Registration Authority promulgates the information to all Sponsoring Authorities and ITOs. The name from the deleted entry is not made eligible for reuse until at least one year after the request is accepted in order to allow sufficient time for there to be no confusion with the previous use of the name.

A.5.1.6 At specified intervals, the Registration Authority requests validation of entries in the register from the organizations concerned. If validation is not received, and there is confirmation either from the organization itself or from the Sponsoring Authority that the name is no longer in use, the entry is deleted.

NOTE – There may be cases in which reuse is not advisable (e.g. because of the use of security mechanisms). The decision is made on a case-by-case basis by the Registration Authority in consultation with the Sponsoring Authority or ITO.

A.5.2 Inquiry

A.5.2.1 An inquiry service is available from the Registration Authority. The service allows potential applicants for the assignment of international ADMD or PRMD names to determine if a name value has already been assigned.

A.5.2.2 To make an inquiry, an organization submits an Inquiry request as specified in A.6.7.

A.5.2.3 The Registration Authority responds to an inquiry request in an inquiry response as specified in A.6.8. To the extent practicable, the response is returned within 10-working days of the request.

A.5.3 Publication

A.5.3.1 A publication service is available from the Registration Authority. The service provides copies of subsets of the Register entries. The Register entry information is not made available for those organizations that have not authorized the release of information.

A.5.3.2 A request for information is made in the form of a publication request as specified in A.6.9.

A.5.3.3 The Registration Authority returns the requested information in a publication response as specified in A.6.9 in an appropriate form (i.e. hard copy or electronic). The time required for the response will vary depending upon the complexity of the selection criteria and the amount of data to be extracted.

A.6 Content of forms

This subclause specifies the information required in the forms used by the Registration Authority to conduct the registration process.

A.6.1 Registration application

The application shall include the following information:

1) Name of Sponsoring Authority or ITO submitting the application.

2) Name of requesting organization (null in the case of an ITO).

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Name and title of the requestor.

5) Proposed alphanumeric name value.

6) Intended use of the name value (ADMD name or PRMD name).

7) Statement of the right to the name value.

8) Statement of whether or not the information can be published.

A.6.2 Request for confirmation

The request for confirmation sent by the Registration Authority to all Sponsoring Authorities shall include the following information:

1) Start date of the review period.

2) End date of the review period (response due date).

3) The requested name value.

4) Intended use of the name value (ADMD name or PRMD name).

5) The identity of the ITO, or of the sponsoring authority and requesting organization.

6) A copy of this Recommendation | International Standard.

A.6.3   Response to a request for confirmation

The response to a request for confirmation sent by Sponsoring Authority shall include the following information:

1) Confirmation or denial that the requested name value can be used in the context for use of the name value of concern to the sponsoring authority.

2) Optionally, comments and supporting information (e.g. explaining a denial).

A.6.4   Notification

The Registration Authority sends a notification to an applicant when the requested name value is entered into the confirmation process. The notification shall include the following information:

1) Start date of the review period.

2) End date of the review period (Sponsoring Authority due response date).

3) The requested ADMD or PRMD name value.

A.6.5   Registration announcement

The Registration Authority sends a registration announcement to an applicant when the assignment of a name value has been confirmed and entered in the Register. The registration announcement shall include the following information:

1) Name of the ITO or Sponsoring Authority submitting the application.

2) Name of the requesting organization (null in the case of an ITO).

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Name and title of the requestor.

5) Confirmed alphanumeric name value.

6) Approved use of the name value (ADMD name or PRMD name).

A.6.6   Notice of rejection

The Registration Authority sends a notice of rejection to an applicant when the assignment of a name value has been rejected. The notice of rejection shall include the following information:

1) Name of the ITO or Sponsoring Authority submitting the application.

2) Name of the requesting organization (null in the case of an ITO).

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Name and title of the requestor.

5) Requested alphanumeric name value.

6) Reason for rejection – identified by citing the relevant subclause of this annex.

A.6.7   Inquiry request

The inquiry request service is provided to allow potential applicants to determine if a name value has already been assigned. An inquiry request shall include the following information:

1) Requesting organization name.

2) Requesting organization address.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Queried name value.

A.6.8   Inquiry response

An inquiry response shall include the following information:

1) Requesting organization name.

2) Requesting organization address.

3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4)   Queried name value.

5)   Status of queried name value:

   a)   not assigned;

   b)   assigned and, if any, marked as *invalid* or *inactive*;

   c)   under review.

A.6.9   Publication request and response

A publication request service is provided to allow information to be obtained on entries in the Register. A publication request and response shall include the following information:

1)   Requesting organization name.

2)   Requesting organization address.

3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4)   The selection criteria to be used to select entries from which information will be extracted.

For entries matching the selection criteria, the publication response shall include the following information:

1)   Name value.

2)   Registrant information (if authorized): Organization name and address, point of contact, and intended usage (ADMD name or PRMD name).

A.6.10   Register entry

A Register entry shall include the following information:

1)   Name of the ITO or sponsoring authority submitting the application – *Will not change*.

2)   Name of the initial registered organization (null in the case of an ITO) – *Will not change*.

3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the initial registered organization – *Will not change*.

4)   Name and title of the initial requestor – *Will not change*.

5)   Date of initial registration – *Will not change*.

6)   Name of current ITO or Sponsoring Authority.

7)   Name of current registered organization.

8)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the current registered organization.

9)   Name and title of the current requestor.

10)   Date of last update to the entry.

11)   Information publishable (yes or no).

12)   Assigned name value.

13)   Approved use of the name value (ADMD name or PRMD name).

A.6.11   Request for update

A request for update to the Register shall include the following information:

1)   Name of current ITO or sponsoring authority.

2)   Name of current registered organization.

3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the current registered organization.

4)   Name and title of the current requestor.

5)   Requested changes to the Register entry.

6)   Date on which the changes will be effective.

Annex B

The assignment of international organization names for use in Directory services

(This annex forms an integral part of this Recommendation | International Standard)

B.1   Purpose

The purpose of this annex is to define procedures for the assignment of international organization names for use in directory names as defined in ITU-T Rec. X.520 | ISO/IEC 9594-6.

B.2   Requirements from ITU-T Rec. X.520 | ISO/IEC 9594-6

B.2.1   Organization Names are used in several elements of Directory protocols specified in the ITU-T X.500-Series of Recommendations | ISO/IEC 9594. Several syntaxes are specified for Organization Name value in ITU-T Rec. X.520 | ISO/IEC 9594-6.

B.2.2   The procedures defined in this annex provide for the assignment, as international organization names, of alphanumeric name values comprising characters from the printableString character set. In accordance with the requirements of ITU-T Rec. X.520 | ISO/IEC 9594-6, these names are limited in length to 64 characters.

B.2.3   In the handling of name values for registration purposes:

    a)   comparison is case insensitive;

    b)   multiple consecutive spaces are treated as a single space;

    c)   leading and trailing spaces are not treated as part of the name value;

    d)   name values of a single space or single zero are not registered.

B.3   Use of international organization names

B.3.1   An Organization Name value assigned by the procedures defined in this annex can be used in an RDN that, without qualification by a Country Name RDN, forms the directory name for the organization concerned.

> NOTE – If the Organization Name is used directly under the root of the DIT, then the DSA holding the corresponding Directory entry must itself be a first level DSA that maintains knowledge of how to reach every other first level DSA in global Directory.

B.3.2   The assignment of an Organization Name to an organization also delegates to that organization the authority to assign RDN values within the context of that name subject to the constraints defined in ITU-T Rec. X.520 | ISO/IEC 9594-6.

B.4   Registration procedures

This subclause specifies the procedures to be followed in the assignment of international organization names to organizations. The procedures are designed to assure openness and due process in the registration process.

B.4.1   Application for registration

B.4.1.1   An ITO submits an application directly to the Registration Authority. Other applications are submitted through a Sponsoring Authority. The content of the application is defined in B.6.1.

B.4.1.2   Upon successful completion of the procedures specified in this annex, the alphanumeric value supplied by the applicant as constrained by the rules in B.2 is registered as assigned.

B.4.1.3   When applicants require multiple names, they must submit a separate application for each name.

B.4.2   Review of applications

B.4.2.1 Procedure

B.4.2.1.1   Since an alphanumeric name may have meaning outside the registration process, in order for an application to be processed, it shall contain a signed statement asserting the applicant's right to the name. If the statement is missing, the application is rejected by sending a notice of rejection as specified in B.6.6, citing this subclause as the reason for the rejection.

NOTE – In the context of registration, the signed statement is collected for recording purposes only. The statement may be useful, for example, in the Sponsoring Authority challenge process; however, such use is outside the scope of this Recommendation | International Standard.

B.4.2.1.2   If the application does not contain the information specified in B.6.1, the application is rejected by sending a notice of rejection as specified in B.6.6, citing this subclause as the reason for rejection.

B.4.2.1.3   If a new application arrives for an alphanumeric name that has already been requested, but the previous request has not yet been confirmed, the following process is followed:

   a)   If the new application arrives before the confirmation process for the previous application has started, then both applications are rejected by sending a notice of rejection as specified in B.6.6, citing this subclause as the reason for rejection.

   b)   If the new application arrives after the confirmation process for the previous application has started, then the new application is put on hold until the confirmation process for the previous application is completed. If the confirmation is successful, then the new application is rejected by sending a notice of rejection as specified in B.6.6, citing this subclause as the reason for rejection. If the confirmation is not successful, then the new application continues with the confirmation process.

B.4.2.1.4   If the application is accepted, it is put into the confirmation process specified in B.4.3.

B.4.2.2   Response time

B.4.2.2.1   To the extent practicable, review of an application under the procedures specified in B.4.2.1 is completed within 10-working days of the receipt of the application.

B.4.2.2.2   The Registration Authority may batch together several applications for registration when communicating the confirmation requests to Sponsoring Authorities. Nevertheless, the beginning of the confirmation process for any application is not delayed by more than 2 months from the date at which the application was submitted.

B.4.2.3   Unprocessable applications

An application is unprocessable if the requested name value does not comply with the requirements specified in B.2. The application is rejected by sending a notice of rejection as specified in B.6.6, citing this subclause as the reason for the rejection.

B.4.3   Confirmation process

B.4.3.1   The requested name value is compared with all other name values in the Register. If the name value is a duplicate, the request is rejected by sending a notice of rejection as specified in B.6.6, citing this subclause as the reason for the rejection. If the supplied value is not a duplicate, it is entered into the Review List. The Review List is published and a request for confirmation as specified in B.6.2 is sent to each sponsoring authority.

B.4.3.2   The review period is at least 6 months. The start and end dates of the review period are published. To the extent practicable, notice of the publication of the supplied name value and of the start of the review period are sent to the applicant within 20-working days.

B.4.3.3   Sponsoring organizations respond to the request for confirmation in the form specified in B.6.3. Abstention, or the absence of a reply from a sponsoring organization within the specified review period, is considered as a confirmation by that Sponsoring Authority that the name value can be used within the context for which it is responsible.

B.4.3.4   If there is unanimous confirmation of the assignment of the requested name value at the end of the review period, then the name value is removed from the Review List and entered in the Register and a registration announcement, as specified in B.6.5, is sent to the applicant. The announcement of registration is sent within 10-working days of the close of the review period.

B.4.3.5   If there is not unanimous confirmation of the assignment of the requested name value, then the name value is removed from the Review List and a notice of rejection, as specified in B.6.6, is sent to the applicant, citing this subclause as the reason for the rejection. The notice of rejection is sent within 10-working days of the close of the review period.

B.4.3.6   Neither the Registration Authority nor ITU-T | ISO/IEC play any role in the resolution of disputes over the use of names. Such disputes are assumed to be resolved by action outside the provisions of this Recommendation | International Standard followed by new applications to the Registration Authority.

B.5   Register

B.5.1   Maintenance

B.5.1.1   The Registration Authority maintains a Register of assigned name values, together with the information specified in B.6.10. The Registration Authority is responsible for defining the internal procedures necessary for the maintenance of the Register.

B.5.1.2   Of the information elements specified in B.6.10, the assigned name value, the initial submitting organization, the initial requesting organization name and address, the initial requestor name and title, and the initial date of registration are not updated. All other information elements can be updated by the Registration Authority when requested to do so in the form specified in B.6.11 by an official of the organization to which the name has been assigned or, if an official of the organization does not exist, by the Sponsoring Authority for the assignment of the name value.

B.5.1.3   A Sponsoring Authority can request that an entry in the Register be marked as *invalid* for the context for use of the name value with which it is concerned. Such a request could result, for example, from a challenge process operated by the Sponsoring Authority or from the determination that intellectual property rights are being violated. Since the request is based on information not available at the time of the confirmation process, in general it is granted. However, the *invalid* mark will not be posted in the entry until at least one year after the request is accepted in order to allow sufficient time for users of the name value to accommodate the change.

B.5.1.4   When an *invalid* mark is put on a Register entry, then the name value for the entry cannot be used in the context for use of the name that has been specified by the corresponding Sponsoring Authority. As soon as the request to post an *invalid* mark is granted, the Registration Authority promulgates the information to all sponsoring authorities.

B.5.1.5   A Sponsoring Authority or an ITO can request the deletion of a Register entry for which it is responsible. When a Register entry is deleted, the name value in the entry is no longer usable. The Registration Authority promulgates the information to all Sponsoring Authorities and ITOs. The name from the deleted entry is not made eligible for reuse until at least one year after the request is accepted in order to allow sufficient time for there to be no confusion with the previous use of the name.

B.5.1.6   At specified intervals, the Registration Authority requests validation of entries in the register from the organizations concerned. If validation is not received, and there is confirmation either from the organization itself or from the Sponsoring Authority that the name is no longer in use, the entry is deleted.

> NOTE – There may be cases in which reuse is not advisable (e.g. because of the use of security mechanisms). The decision is made on a case-by-case basis by the Registration Authority in consultation with the Sponsoring Authority or ITO.

B.5.2   Inquiry

B.5.2.1   An inquiry service is available from the Registration Authority. The service allows potential applicants for the assignment of international organization names to determine if a name value has already been assigned.

B.5.2.2   To make an inquiry, an organization submits an Inquiry request as specified in B.6.7.

B.5.2.3   The Registration Authority responds to an inquiry request in an inquiry response as specified in B.6.8. To the extent practicable, the response is returned within 10-working days of the request.

B.5.3   Publication

B.5.3.1   A publication service is available from the Registration Authority. The service provides copies of subsets of the Register entries. The Register entry information is not made available for those organizations that have not authorized the release of information.

B.5.3.2   A request for information is made in the form of a publication request as specified in B.6.9.

B.5.3.3   The Registration Authority returns the requested information in a publication response as specified in B.6.9 in an appropriate form (i.e. hard copy or electronic). The time required for the response will vary depending upon the complexity of the selection criteria and the amount of data to be extracted.

B.6   Content of forms

This subclause specifies the information required in the forms used by the Registration Authority to conduct the registration process.

B.6.1   Registration application

The application shall include the following information:

1)   Name of Sponsoring Authority or ITO submitting the application.

2)   Name of requesting organization (null in the case of an ITO).

3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4)   Name and title of the requestor.

5)   Proposed alphanumeric name value.

6)   Statement of the right to the name value.

7)   Statement of whether or not the information can be published.

B.6.2   Request for confirmation

The request for confirmation sent by the Registration Authority to all Sponsoring Authorities shall include the following information:

1)   Start date of the review period.

2)   End date of the review period (response due date).

3)   The requested Organization Name value.

4)   The identity of the ITO, or of the Sponsoring Authority and requesting organization.

5)   A copy of this Recommendation | International Standard.

B.6.3   Response to a request for confirmation

The response to a request for confirmation sent by Sponsoring Authority shall include the following information:

1)   Confirmation or denial that the requested name value can be used in the context for use of the name value of concern to the Sponsoring Authority.

2)   Optionally, comments and supporting information (e.g. explaining a denial).

B.6.4   Notification

The Registration Authority sends a notification to an applicant when the requested name value is entered into the confirmation process. The notification shall include the following information:

1)   Start date of the review period.

2)   End date of the review period (Sponsoring Authority due response date).

3)   The requested Organization Name value.

B.6.5   Registration announcement

The Registration Authority sends a registration announcement to an applicant when the assignment of a name value has been confirmed and entered in the Register. The registration announcement shall include the following information:

1)   Name of the ITO or Sponsoring Authority submitting the application.

2)   Name of the requesting organization (null in the case of an ITO).

3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4)   Name and title of the requestor.

5)   Confirmed alphanumeric name value.

B.6.6   Notice of rejection

The Registration Authority sends a notice of rejection to an applicant when the assignment of a name value has been rejected. The notice of rejection shall include the following information:

1)   Name of the ITO or Sponsoring Authority submitting the application.

2)   Name of the requesting organization (null in the case of an ITO).

   3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

   4)   Name and title of the requestor.

   5)   Requested alphanumeric name value.

   6)   Reason for rejection – identified by citing the relevant subclause of this annex.

B.6.7   Inquiry request

The inquiry request service is provided to allow potential applicants to determine if a name value has already been assigned. An inquiry request shall include the following information:

   1)   Requesting organization name.

   2)   Requesting organization address.

   3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

   4)   Queried name value.

B.6.8   Inquiry response

An inquiry response shall include the following information:

   1)   Requesting organization name.

   2)   Requesting organization address.

   3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

   4)   Queried name value.

   5)   Status of queried name value:

      a)   not assigned;

      b)   assigned and, if any, marked as *invalid* or *inactive*;

      c)   under review.

B.6.9   Publication request and response

A publication request service is provided to allow information to be obtained on entries in the Register. A publication request and response shall include the following information:

   1)   Requesting organization name.

   2)   Requesting organization address.

   3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

   4)   The selection criteria to be used to select entries from which information will be extracted.

For entries matching the selection criteria, the publication response shall include the following information:

   1)   Name value.

   2)   Registrant information (if authorized): Organization name and address and point of contact.

B.6.10   Register entry

A Register entry shall include the following information:

   1)   Name of the ITO or sponsoring authority submitting the application – *Will not change*.

   2)   Name of the initial registered organization (null in the case of an ITO) – *Will not change*.

   3)   Name, postal/electronic mail address and telephone/facsimile number for the contact point within the initial registered organization – *Will not change*.

   4)   Name and title of the initial requestor – *Will not change*.

5) Date of initial registration – *Will not change*.

6) Name of current ITO or sponsoring authority.

7) Name of current registered organization.

8) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the current registered organization.

9) Name and title of the current requestor.

10) Date of last update to the entry.

11) Information publishable (yes or no).

12) Assigned name value.

B.6.11   Request for update

A request for update to the Register shall include the following information:

1) Name of current ITO or sponsoring authority.

2) Name of current registered organization.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the current registered organization.

4) Name and title of the current requestor.

5) Requested changes to the Register entry.

6) Date on which the changes will be effective.

Annex C

The assignment of international object identifier component values to organizations

(This annex forms an integral part of this Recommendation | International Standard)

C.1   Purpose

The purpose of this annex is to define procedures for the assignment of international object identifier component values for organizations for use in object identifiers, as defined in ITU-T Rec. X.680 | ISO/IEC 8824-1.

C.2   Requirements from ITU-T Rec. X.680 | ISO/IEC 8824-1

The procedures defined in this annex provide for the assignment, as international object identifier component values, of NameAndNumberForm values as specified in ITU-T Rec. X.680 | ISO/IEC 8824-1. The identifier component of the NameAndNumberForm value is proposed by the applicant: it is an alphanumeric name value comprising characters from the printableString character set. The NumberForm value is assigned by the Registration Authority.

C.3   Use of international object identifier components

C.3.1   An object identifier component value assigned by the procedures defined in this annex is concatenated with the object identifier value:

> {joint-iso-itu-t(2) international-organizations(23) oid-component(n)}

to form an object identifier for organization names, where n is a value to be assigned by the Registration Authority for international organization names.

C.3.2   The assignment of an object identifier to an organization also delegates to that organization the authority to assign object identifier component values within the context of resultant object identifier for that organization, subject to the constraints defined in ITU-T Rec. X.680 | ISO/IEC 8824-1.

C.4   Registration procedures

This subclause specifies the procedures to be followed in the assignment of international object identifier component values to organizations. The procedures are designed to assure openness and due process in the registration process.

C.4.1   Application for registration

C.4.1.1   An ITO submits an application directly to the Registration Authority. Other applications are submitted through a Sponsoring Authority. The content of the application is defined in C.6.1.

C.4.1.2   Upon successful completion of the procedures specified in this annex, the identifier value supplied by the applicant as constrained by the rules in C.2 is registered as assigned together with the NumberForm value assigned by the Registration Authority.

C.4.1.3   When applicants require multiple object identifier component values, they must submit a separate application for each.

C.4.2   Review of applications

C.4.2.1   Procedure

C.4.2.1.1   Since the identifier value in a NameAndNumberForm value may have meaning outside the registration process, in order for an application to be processed it shall contain a signed statement asserting the applicant's right to the identifier value. If the statement is missing, the application shall be rejected by sending a notice of rejection as specified in C.6.6, citing this subclause as the reason for the rejection.

> NOTE – In the context of registration the signed statement is collected for recording purposes only. The statement may be useful, for example, in the Sponsoring Authority challenge process; however, such use is outside the scope of this Recommendation | International Standard.

C.4.2.1.2   If the application does not contain the information specified in C.6.1, the application shall be rejected by sending a notice of rejection as specified in C.6.6, citing this subclause as the reason for rejection.

C.4.2.1.3   If a new application arrives for an identifier value that has already been requested, but the previous request has not yet been confirmed, the following process is followed:

    a) If the new application arrives before the confirmation process for the previous application has started, then both applications are rejected by sending a notice of rejection as specified in C.6.6, citing this subclause as the reason for rejection.

    b) If the new application arrives after the confirmation process for the previous application has started, then the new application is put on hold until the confirmation process for the previous application is completed. If the confirmation is successful, then the new application is rejected by sending a notice of rejection as specified in C.6.6, citing this subclause as the reason for rejection. If the confirmation is not successful, then the new application continues with the confirmation process.

C.4.2.1.4   If the application is accepted, it is put into the confirmation process specified in C.4.3.

C.4.2.2   Response time

C.4.2.2.1   To the extent practicable, review of an application under the procedures specified in C.4.2.1 is completed within 10-working days of the receipt of the application.

C.4.2.2.2   The Registration Authority may batch together several applications for registration when communicating the confirmation requests to Sponsoring Authorities. Nevertheless, the beginning of the confirmation process for any application is not delayed by more than 2 months from the date at which the application was submitted.

C.4.2.3   Unprocessable applications

An application is unprocessable if the requested identifier value does not comply with the requirements specified in C.2. The application is rejected by sending a notice of rejection as specified in C.6.6, citing this subclause as the reason for the rejection.

C.4.3   Confirmation process

C.4.3.1   The requested identifier value is compared with all other identifier values in the Register. If the identifier value is a duplicate, the request is rejected by sending a notice of rejection as specified in C.6.6, citing this subclause as the reason for the rejection. If the supplied value is not a duplicate, it is entered into the Review List. The Review List is published and a request for confirmation as specified in C.6.2, is sent to each Sponsoring Authority.

C.4.3.2   The review period is at least 6 months. The start and end dates of the review period are published. To the extent practicable, notice of the publication of the supplied identifier value and of the start of the review period, are sent to the applicant within 20-working days.

C.4.3.3   Sponsoring organizations respond to the request for confirmation in the form specified in C.6.3. Abstention, or the absence of a reply from a sponsoring organization within the specified review period, is considered as a confirmation by that Sponsoring Authority that the identifier value can be used within the context for which it is responsible.

C.4.3.4   If there is unanimous confirmation of the assignment of the requested Name Form value at the end of the review period, then the identifier value is removed from the Review List and entered in the Register together with the NumberForm value assigned by the Registration Authority. An announcement of registration as specified in C.6.5, is sent to the applicant. The announcement of registration is sent within 10-working days of the close of the review period.

C.4.3.5   The NumberForm value assigned is the next value in the sequence for the Register. The starting point for the sequence is not specified by this annex.

C.4.3.6   If there is not unanimous confirmation of the assignment of the requested identifier value, then the identifier value is removed from the Review List and a notice of rejection as specified in C.6.6, is sent to the applicant citing this subclause as the reason for the rejection. The notice of rejection is sent within 10-working days of the close of the review period.

C.4.3.7   Neither the Registration Authority nor ITU-T | ISO/IEC play any role in the resolution of disputes over the use of identifier values. Such disputes are assumed to be resolved by action outside the provisions of this Recommendation | International Standard followed by new applications to the Registration Authority.

C.5 Register

C.5.1 Maintenance

C.5.1.1 The Registration Authority maintains a Register of assigned pairs of identifier and NumberForm values, together with the information specified in C.6.10. The Registration Authority is responsible for defining the internal procedures necessary for the maintenance of the Register.

C.5.1.2 Of the information elements specified in C.6.10, the assigned pair of identifier and NumberForm values, the initial submitting organization, the initial requesting organization name and address, the initial requester name and title, and the initial date of registration are not updated. All other information elements can be updated by the Registration Authority when requested to do so in the form specified in C.6.11 by an official of the organization to which the pair of identifier and NumberForm values has been assigned or, if an official of the organization does not exist, by the Sponsoring Authority for the assignment of the pair of identifier and NumberForm values.

C.5.1.3 A Sponsoring Authority can request that the identifier value in an entry in the Register be marked as *invalid* for the context for use of the identifier value with which it is concerned. Such a request could result, for example, from a challenge process operated by the Sponsoring Authority or from the determination that intellectual property rights are being violated. Since the request is based on information not available at the time of the confirmation process, in general it is granted. However, the *invalid* mark will not be posted in the entry until at least one year after the request is accepted in order to allow sufficient time for users of the name value to accommodate the change.

C.5.1.4 When an *invalid* mark is put on a Register entry, then the identifier value for the entry cannot be used in the context for use of the identifier value that has been specified by the corresponding Sponsoring Authority. As soon as the request to post an *invalid* mark is granted, the Registration Authority promulgates the information to all Sponsoring Authorities.

C.5.1.5 A Sponsoring Authority or an ITO can request the deletion of a Register entry for which it is responsible. When a Register entry is deleted, the identifier value in the entry is no longer usable. The Registration Authority promulgates the information to all Sponsoring Authorities and ITOs. The NumberForm value from the deleted entry is not reassigned. The identifier value from the deleted entry is not made eligible for reuse until at least one year after the request is accepted in order to allow sufficient time for there to be no confusion with the previous use of the value.

C.5.1.6 At specified intervals the Registration Authority requests validation of entries in the Register from the organizations concerned. If validation is not received, and there is confirmation either from the organization itself or from the Sponsoring Authority that assigned pair of identifier and NumberForm values is no longer in use, the entry is deleted.

> NOTE – There may be cases in which reuse is not advisable (e.g. because of the use of security mechanisms). The decision is made on a case-by-case basis by the Registration Authority in consultation with the Sponsoring Authority or ITO.

C.5.2 Inquiry

C.5.2.1 An inquiry service is available from the Registration Authority. The service allows potential applicants for the assignment of international object identifier component values to determine if a identifier value has already been assigned.

C.5.2.2 To make an inquiry, an organization submits an Inquiry request as specified in C.6.7.

C.5.2.3 The Registration Authority responds to an inquiry request in an inquiry response as specified in C.6.8. To the extent practicable, the response is returned within 10-working days of the request.

C.5.3 Publication

C.5.3.1 A publication service is available from the Registration Authority. The service provides copies of subsets of the Register entries. The Register entry information is not made available for those organizations that have not authorized the release of information.

C.5.3.2 A request for information is made in the form of a publication request as specified in C.6.9.

C.5.3.3 The Registration Authority returns the requested information in a publication response as specified in C.6.9 in an appropriate form (i.e. hard copy or electronic). The time required for the response will vary depending upon the complexity of the selection criteria and the amount of data to be extracted.

C.6 Content of forms

This subclause specifies the information required in the forms used by the Registration Authority to conduct the registration process.

C.6.1 Registration application

The application shall include the following information:

1) Name of Sponsoring Authority or ITO submitting the application.

2) Name of requesting organization (null in the case of an ITO).

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Name and title of the requestor.

5) Proposed identifier value.

6) Statement of the right to the identifier value.

7) Statement of whether or not the information can be published.

C.6.2 Request for confirmation

The request for confirmation sent by the Registration Authority to all Sponsoring Authorities shall include the following information:

1) Start date of the review period.

2) End date of the review period (response due date).

3) The requested identifier value.

4) The identity of the ITO, or of the Sponsoring Authority and requesting organization.

5) A copy of this Recommendation | International Standard.

C.6.3 Response to a request for confirmation

The response to a request for confirmation sent by a Sponsoring Authority shall include the following information:

1) Confirmation or denial that the requested identifier value can be used in the context for use of the identifier of concern to the Sponsoring Authority.

2) Optionally, comments and supporting information (e.g. explaining a denial).

C.6.4 Notification

The Registration Authority sends a notification to an applicant when the requested identifier value is entered into the confirmation process. The notification shall include the following information:

1) Start date of the review period.

2) End date of the review period (Sponsoring Authority due response date).

3) The requested identifier value.

C.6.5 Registration announcement

The Registration Authority sends a registration announcement to an applicant when the assignment of an identifier value has been confirmed and entered in the Register. The registration announcement shall include the following information:

1) Name of the ITO or Sponsoring Authority submitting the application.

2) Name of the requesting organization (null in the case of an ITO).

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Name and title of the requestor.

5) Confirmed identifier value.

6) Assigned NumberForm value.

C.6.6 Notice of rejection

The Registration Authority sends a notice of rejection to an applicant when the assignment of an identifier value has been rejected. The notice of rejection shall include the following information:

1) Name of the ITO or Sponsoring Authority submitting the application.

2) Name of the requesting organization (null in the case of an ITO).

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Name and title of the requestor.

5) Requested identifier value.

6) Reason for rejection – identified by citing the relevant subclause of this annex.

C.6.7 Inquiry request

The inquiry request service is provided to allow potential applicants to determine if an identifier value has already been assigned. An inquiry request shall include the following information:

1) Requesting organization name.

2) Requesting organization address.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Queried identifier value.

C.6.8 Inquiry response

An inquiry response shall include the following information:

1) Requesting organization name.

2) Requesting organization address.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) Queried identifier value.

5) Status of queried identifier value:

    a) not assigned;

    b) assigned and, if any, marked as *invalid* or *inactive*;

    c) under review.

C.6.9 Publication request and response

A publication request service is provided to allow information to be obtained on entries in the Register. A publication request and response shall include the following information:

1) Requesting organization name.

2) Requesting organization address.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the requesting organization.

4) The selection criteria to be used to select entries from which information will be extracted.

For entries matching the selection criteria the publication response shall include the following information:

1) identifier value.

2) NumberForm.

3) Registrant information (if authorized): Organization name and address and point of contact.

C.6.10   Register entry

A Register entry shall include the following information:

1) Name of the ITO or Sponsoring Authority submitting the application – *Will not change*.

2) Name of the initial registered organization (null in the case of an ITO) – *Will not change*.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the initial registered organization – *Will not change*.

4) Name and title of the initial requestor – *Will not change*.

5) Date of initial registration – *Will not change*.

6) Name of current ITO or Sponsoring Authority.

7) Name of current registered organization.

8) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the current registered organization.

9) Name and title of the current requestor.

10) Date of last update to the entry.

11) Information publishable (yes or no).

12) Assigned identifier value.

13) Assigned NumberForm value.

C.6.11   Request for update

A request for update to the Register shall include the following information:

1) Name of current ITO or Sponsoring Authority.

2) Name of current registered organization.

3) Name, postal/electronic mail address and telephone/facsimile number for the contact point within the current registered organization.

4) Name and title of the current requestor.

5) Requested changes to the Register entry.

6) Date on which the changes will be effective.

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