



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**X.671**

(08/2004)

SERIES X: DATA NETWORKS AND OPEN SYSTEM  
COMMUNICATIONS

OSI networking and system aspects – Naming,  
Addressing and Registration

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**Procedures for a Registration Authority  
operating on behalf of countries to register  
organization names subordinate to country  
names in the X.660 RH-name-tree**

ITU-T Recommendation X.671

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## **ITU-T Recommendation X.671**

### **Procedures for a Registration Authority operating on behalf of countries to register organization names subordinate to country names in the X.660 RH-name-tree**

#### **Summary**

This Recommendation specifies registration procedures for a Registration Authority that operates on behalf of countries to register organization names subordinate to country names.

#### **Source**

ITU-T Recommendation X.671 was approved on 22 August 2004 by ITU-T Study Group 17 (2001-2004) under the ITU-T Recommendation A.8 procedure.

## FOREWORD

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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.

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# ITU-T Recommendation X.671

## Procedures for a Registration Authority operating on behalf of countries to register organization names subordinate to country names in the X.660 RH-name-tree

### 1 Scope

This Recommendation specifies requirements for the operation of the Registration Authority that registers organization names on behalf of countries.

The registration requirements specified in this Recommendation correspond to any arcs in the registration-hierarchical-name-tree below which national registration authorities may exist.

These registration procedures may be useful for countries that do not have a Registration Authority in place and are willing to let another Registration Authority discharge this role on their behalf.

### 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.500 (2001) | ISO/IEC 9594-1:2001, *Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services.*
- ITU-T Recommendation X.501 (2001) | ISO/IEC 9594-2:2001, *Information technology – Open Systems Interconnection – The Directory: Models.*
- 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.*

#### 2.2 Paired Recommendations | International Standards equivalent in technical content

- ITU-T Recommendation F.400/X.400 (1999), *Message handling system and service overview.*  
ISO/IEC 10021-1:2003, *Information technology – Message Handling Systems (MHS) – Part 1: System and service overview.*

### **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) Registration Authority;
- c) registration-hierarchical-name-tree (RH-name-tree).

#### **3.2 International name terms**

This Recommendation uses the following term defined in ITU-T Rec. X.666 | ISO/IEC 9834-7:

- international organization.

#### **3.3 ASN.1 terms**

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

- object identifier.

#### **3.4 Directory terms**

This Recommendation uses the following term defined in ITU-T Rec. X.501 | ISO/IEC 9594-2:

- directory name.

#### **3.5 Message Handling Systems terms**

This Recommendation uses the following terms defined in ITU-T Rec. F.400/X.400 and ISO/IEC 10021-1:

- a) Administration Management Domain (ADMD);
- b) Private Management Domain (PRMD).

### **4 Abbreviations**

This Recommendation uses the following abbreviations:

|       |                                  |
|-------|----------------------------------|
| ADMD  | Administration Management Domain |
| ASN.1 | Abstract Syntax Notation One     |
| EDI   | Electronic Data Interchange      |
| MD    | Management Domain (PRMD or ADMD) |
| PRMD  | Private Management Domain        |

### **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.

**5.2** This Recommendation specifies registration procedures for registration of organization names on behalf of countries. Names registered with the Registration Authority, and according to these registration procedures, can only be used within the context of a country name.



**5.3** This Recommendation specifies registration procedures to assign unambiguous organization name values as required for specific naming systems or for general purpose naming.

**5.4** The following are examples of types of organization names for which the provided procedures could be useful: Administration Management Domain (ADMD) names and Private Management Domain (PRMD) names for O/R addresses (X.400 addresses), trading partner names for EDI applications, ASN.1 object identifiers, and organization names for relative distinguished names (X.500 names).

**5.5** This Recommendation specifies registration procedures to register alphanumeric and numeric values for organization names used subordinate to a country name.

## **6 Registration Authority**

**6.1** A country designates a Registration Authority to act on its behalf in performing the registration of names for a particular type, in which case the Registration Authority will act as the national Registration Authority for that type of name in that country, e.g., for organization names, Directory names, or O/R addresses.

**6.2** When such a delegation of authority is made, the names assigned by the Registration Authority, for the specified name type, can be used in the context of that country, i.e., subordinate to that country name for the specified name type.

## **7 Registration procedures**

**7.1** The process by which the Registration Authority performs registration is agreed between the Registration Authority and the country that delegated the authority to the Registration Authority.

**7.2** The Registration Authority shall develop the details of the registration procedures with the country concerned based on the general registration procedures specified in ITU-T Rec. X.660 | ISO/IEC 9834-1.

NOTE – ITU-T Rec. X.666 | ISO/IEC 9834-7 shows how ITU-T Rec. X.660 | ISO/IEC 9834-1 is used to develop registration procedures for international organization names.

**7.3** Applications shall be submitted directly to the Registration Authority.

**7.4** This Recommendation does not limit the format of names or the type of applications that can be registered with the Registration Authority. The Registration Authority may perform registration for any arc in the registration-hierarchical-name-tree (RH-name-tree) that is subordinate to a country arc.





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