



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.501

Corrigendum 1
(03/2000)

SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATIONS

Directory

Information technology – Open Systems
Interconnection – The Directory: Models
Technical Corrigendum 1

ITU-T Recommendation X.501 – Corrigendum 1

(Formerly CCITT Recommendation)

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INTERNATIONAL STANDARD ISO/IEC 9594-2
ITU-T RECOMMENDATION X.501

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION –
THE DIRECTORY: MODELS

TECHNICAL CORRIGENDUM 1

Source

Corrigendum 1 to ITU-T Recommendation X.501 was prepared by ITU-T Study Group 7 (1997-2000) and approved on 31 March 2000. An identical text is also published as Technical Corrigendum 1 to ISO/IEC 9594-2.

FOREWORD

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

The World Telecommunication Standardization Conference (WTSC), 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 WTSC 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.

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

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INTERNATIONAL STANDARD
ITU-T RECOMMENDATION

**INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION –
 THE DIRECTORY: MODELS**

TECHNICAL CORRIGENDUM 1

1) Resolution to defect report 9594/173

Subclause 20.5 First Level DSAs

Change the text of bullet c) as follows:

- c) it holds subordinate references (of category master and/or shadow) and non-specific subordinate references (of category master and/or shadow) which account for all the naming contexts immediately subordinate to the root of the DIT which it does not itself hold.

2) Resolution to defect report 9594/179

Annex J, Table J.1

In the second column called "Entry Protected Item Permissions Required", add the following texts for the Read and the Search operations:

for the Read operation:

"ReturnDN for distinguished name"

for the Search Operation:

"returnDN for each returned distinguished name"

3) Resolution to defect report 9594/189

Subclause 26.3 Modify Operational Binding and Annex F

Add OPTIONAL to the ASN.1 of newAgreement as follows:

NewAgreement [7] **OPERATIONAL-BINDING.&Agreement**
 ({OpBindingSet}{@bindingType}) **OPTIONAL**,

4) Resolution to defect report 9594/205

Subclause 20.3.2 Knowledge Reference Types

Change the first bullet point after "A DSA may hold the following types of knowledge reference:" to read:

- superior references;

Subclause 20.3.2.1 Superior Reference

Change the title and second sentence to read:

22.3.2.1 Superior References

A superior reference consists of:

- the Access Point of a DSA.

Each non-first level DSA (see 20.5) shall maintain at least one superior reference.

Subclause 20.4.1 Superior Knowledge

Change the first sentence to read:

Each DSA that is not a first level DSA shall maintain at least one superior reference.

And add the following second sentence:

Additional superior references may be held for operational reasons as alternative paths to the root of the DIT.

Subclause 20.5 First Level DSAs

Change the second sentence to read:

"A DSA referenced by other DSAs may itself maintain one or more superior references."

Change the last sentence to read:

"They therefore may serve as a superior reference for non-first level DSAs."

Subclause 21.4.2 DSE Types

Change the text of bullet h) to read as follows:

- h) **supr**: A DSE that holds a specific knowledge attribute to represent the DSAs superior references.

Subclause 22.2.1.2 Superior Knowledge

*Change the first sentence to the plural and the **ATTRIBUTE WITH SYNTAX** to read as follows:*

The **superiorKnowledge** operational attribute type is used by a non-first level DSA to represent its superior references.

superiorKnowledge	ATTRIBUTE WITH SYNTAX	::=	{
		SET OF AccessPoint

Subclause 22.2.2.2 Superior Reference

Insert a new second sentence:

Since a **superiorKnowledge** attribute value may contain the access points of several DSAs, it may therefore represent several superior references.

5) Resolution to defect report 9594/211

Subclause 26.2

*Change the two occurrences of **UTCTime** to **Time**:*

*Insert the following after the ASN.1 definition of **Validity***

Time ::= CHOICE {
 utcTime **UTCTime,**
 generalizedTime **GeneralizedTime }**

Before a value of **Time** is used in any comparison operation and if the syntax of **Time** has been chosen as the **UTCTime** type, the value of the two-digit year field shall be rationalized into a four-digit year value as follows:

- If the 2-digit value is 00 through 49 inclusive, the value shall have 2000 added to it.
- If the 2-digit value is 50 through 99 inclusive, the value shall have 1900 added to it.

NOTE – The use of **GeneralizedTime** may prevent interworking with implementations unaware of the possibility of choosing either **UTCTime** or **GeneralizedTime**. It is the responsibility of those specifying the domains in which this Directory Specification will be used, e.g. profiling groups, as to when the **GeneralizedTime** may be used. In no case shall **UTCTime** be used for representing dates beyond 2049.

Subclause 26.4

Change UTCTime to Time:

Subclause 26.5

Change UTCTime to Time:

Also make the ASN.1 changes to Annex F.

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