

INTERNATIONAL TELECOMMUNICATION UNION



TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU



# SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

Directory

Information technology – Open Systems Interconnection – The Directory: Abstract service definition

**Technical Corrigendum 2** 

ITU-T Recommendation X.511 (1997) – Corrigendum 2

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For further details, please refer to the list of ITU-T Recommendations.

#### INTERNATIONAL STANDARD ISO/IEC 9594-3 ITU-T RECOMMENDATION X.511

#### Information technology – Open Systems Interconnection – The Directory: Abstract service definition

**TECHNICAL CORRIGENDUM 2** 

#### Source

Corrigendum 2 to ITU-T Recommendation X.511 (1997) was prepared by ITU-T Study Group 7 (2001-2004) and approved on 2 February 2001. An identical text is also published as Technical Corrigendum 2 to ISO/IEC 9594-3.

#### FOREWORD

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

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

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

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

#### NOTE

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

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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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#### Information technology – Open Systems Interconnection – The Directory: Abstract service definition

#### **TECHNICAL CORRIGENDUM 2**

NOTE - This Technical Corrigendum covers the result of the ballot resolutions of Draft Technical Corrigenda 3, 4, and 5.

#### 1) Defect reports covered by Draft Technical Corrigendum 3

(Covering resolutions to defect reports 231 and 232)

#### 1.1) This corrects the defects reported in defect report 9594/231

This Technical Corrigendum makes modifications to Technical Corrigendum 1 (Draft Technical Corrigendum 2).

Instead of the ASN.1 suggested in Corrigendum 1, use the following data type:

SimpleCredentials ::=	SEQUENCE {
name [0]	DistinguishedName,
validity [1]	SET {
time1	[0] CHOICE {
utc	UTCTime,
gt	GeneralizedTime } OPTIONAL,
time2	[1] CHOICE {
utc	UTCTime,
gt	GeneralizedTime } OPTIONAL,
random1	[2] BIT STRING OPTIONAL,
random2	[3] BIT STRING OPTIONAL },
password [2]	CHOICE {
unprotected	OCTET STRING,
protected	SIGNATURE {OCTET STRING} } OPTIONAL}

Change the Note suggested for 7.10 to normative text.

#### **1.2)** This corrects the defects reported in defect report 9594/232

General:

*Change all occurrences of* **joint-iso-ccitt** *to* **joint-iso-itu-t**.

In 7.2 "Information types defined elsewhere":

Replace OPTIONALLY-SIGNED with OPTIONALLY-PROTECTED and OPTIONALLY-PROTECTED-SEQ.

#### ISO/IEC 9594-3:1998/Cor.2:2002 (E)

In Annex A:

Add basicAccessControl and enhancedSecurity to the import from UsefulDefinitions.

Add a new import:

#### AttributeTypeAndValue FROM BasicAccessControl basicAccessControl

Add ENCRYPTED to the import from AuthenticationFramework.

*Move the semicolon from the end of the import from* **Remote-Operations-Generic-ROS-PDUs** *to the end of import from* **SpkmGssTokens**.

In the import from SpkmGssTokens, change SPKM-REP-IT to SPKM-REP-TI.

#### 2) Defect reports covered by Draft Technical Corrigendum 4

(Covering resolutions to defect report 247)

#### 2.1) This corrects the defects reported in defect report 9594/247

In the Introduction, change from:

Annex B, which is an integral part of this Recommendation | International Standard,

to:

Annex B, which is not an integral part of this Recommendation | International Standard,

In 7.4, add the following construct and explanatory Note after CommonResults:

#### CommonResultsSeq ::= SEQUENCE {

		··- (	
securityParameters	[30]	SecurityParameters	OPTIONAL,
performer	[29]	DistinguishedName	OPTIONAL,
aliasDereferenced	[28]	BOOLEAN	DEFAULT FALSE }

NOTE – **CommonResults** and **CommonResultsSeq** consist of the same components. The former is used when included in set types by the **COMPONENT OF** type, while the latter is used similarly in sequenced types.

*In the* AbandonResult, AddEntryResult, RemoveEntryResult, ModifyEntryResult *and* ModifyDNResult *change* CommonResults *to* CommonResultsSeq.

#### 3) Defect reports covered by Draft Technical Corrigendum 5

(Covering resolutions to defect reports 224, 228, 242 and 263)

#### 3.1) This corrects the defects reported in defect report 9594/224

In 7.8.1, change "undefined" to "UNDEFINED" in all places to indicate parity with "TRUE" and "FALSE" for the three-valued logic defined in this subclause.

In 7.8.2, add to the end of the 3rd paragraph:

When these conditions are not met, the FilterItem shall evaluate to the logical value UNDEFINED.

Delete Note 1 and change Note 2 (which is now Note 1) to:

NOTE 1 – Access control restrictions may affect the evaluation of the **FilterItem** and may cause the **FilterItem** to evaluate to UNDEFINED.

Insert the following new paragraph after the new Note 1:

An assertion which is defined by these conditions additionally evaluates to UNDEFINED if it relates to an attribute value and the attribute type is not present in an attribute against which the assertion is being tested. An assertion which is defined by these conditions and relates to the presence of an attribute type evaluates to FALSE.

#### 3.2) This corrects the defects reported in defect report 9594/228

Delete any occurrence of:

#### DIRQOP.&...-QOP{@dirqop}

## In 9.3, change OPTIONALLY-PROTECTED to OPTIONALLY-PROTECTED-SEQ in both AbandonArgument and AbandonResult.

In 11.1.1, change PROTECTED to OPTIONALLY-PROTECTED-SEQ in AddEntryResult.

- In 11.2.1, change PROTECTED to OPTIONALLY-PROTECTED-SEQ in RemoveEntryResult.
- In 11.3.1, change OPTIONALLY-PROTECTED to OPTIONALLY-PROTECTED-SEQ in ModifyEntryResult.
- In 11.4.1, change OPTIONALLY-PROTECTED to OPTIONALLY-PROTECTED-SEQ in ModifyDNResult.

In Annex A, make the changes as indicated above.

In Annex A, add OPTIONALLY-PROTECTED-SEQ to and delete DIRQOP from the import from EnhancedSecurity.

#### **3.3)** This corrects the defects reported in defect report 9594/242

Add size limit SIZE (1..MAX) to all optional SET OF and SEQUENCE OF constructs.

#### 3.4) This corrects the defects reported in defect report 9594/263

Change the last sentence of the second paragraph of 7.1 to:

Each of the subclauses 7.3 through 7.10 identifies and defines an information type.

*Replace Note 1 in 8.1.2 with the following paragraph.* 

**GeneralizedTime** shall be used for **time1** and **time2** if the negotiated version is **v2** or greater. The use of **GeneralizedTime** when **v1** has been negotiated 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. **UTCTime** shall not be used for representing dates beyond 2049.

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- Series O Specifications of measuring equipment
- Series P Telephone transmission quality, telephone installations, local line networks
- Series Q Switching and signalling
- Series R Telegraph transmission
- Series S Telegraph services terminal equipment
- Series T Terminals for telematic services
- Series U Telegraph switching
- Series V Data communication over the telephone network
- Series X Data networks and open system communications
- Series Y Global information infrastructure and Internet protocol aspects
- Series Z Languages and general software aspects for telecommunication systems