International Telecommunication Union

ITU-T
TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.511
Corrigendum 4
(04/2012)

SERIES X: DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

Directory

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

Technical Corrigendum 4

Recommendation ITU-T X.511 (2005) – Technical Corrigendum 4

ITU-T X-SERIES RECOMMENDATIONS

DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

PUBLIC DATA NETWORKS	
Services and facilities	X.1–X.19
Interfaces	X.20–X.49
Transmission, signalling and switching	X.50–X.89
Network aspects	X.90–X.149
Maintenance	X.150–X.179
Administrative arrangements	X.180–X.199
OPEN SYSTEMS INTERCONNECTION	
Model and notation	X.200–X.209
Service definitions	X.210–X.219
Connection-mode protocol specifications	X.220–X.229
Connectionless-mode protocol specifications	X.230–X.239
PICS proformas	X.240–X.259
Protocol Identification	X.260–X.269
Security Protocols	X.270–X.279
Layer Managed Objects	X.280–X.289
Conformance testing	X.290–X.299
INTERWORKING BETWEEN NETWORKS	
General	X.300–X.349
Satellite data transmission systems	X.350–X.369
IP-based networks	X.370–X.379
MESSAGE HANDLING SYSTEMS	X.400–X.499
DIRECTORY	**X.500–X.599**
OSI NETWORKING AND SYSTEM ASPECTS	
Networking	X.600–X.629
Efficiency	X.630–X.639
Quality of service	X.640–X.649
Naming, Addressing and Registration	X.650–X.679
Abstract Syntax Notation One (ASN.1)	X.680–X.699
OSI MANAGEMENT	
Systems management framework and architecture	X.700–X.709
Management communication service and protocol	X.710–X.719
Structure of management information	X.720–X.729
Management functions and ODMA functions	X.730–X.799
SECURITY	X.800–X.849
OSI APPLICATIONS	
Commitment, concurrency and recovery	X.850–X.859
Transaction processing	X.860–X.879
Remote operations	X.880–X.889
Generic applications of ASN.1	X.890–X.899
OPEN DISTRIBUTED PROCESSING	X.900–X.999
INFORMATION AND NETWORK SECURITY	X.1000–X.1099
SECURE APPLICATIONS AND SERVICES	X.1100–X.1199
CYBERSPACE SECURITY	X.1200–X.1299
SECURE APPLICATIONS AND SERVICES	X.1300–X.1399
CYBERSECURITY INFORMATION EXCHANGE	X.1500–X.1599

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

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

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

Technical Corrigendum 4

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T X.511	1988-11-25	
2.0	ITU-T X.511	1993-11-16	7
3.0	ITU-T X.511	1997-08-09	7
3.1	ITU-T X.511 (1997) Technical Cor. 1	2000-03-31	7
3.2	ITU-T X.511 (1997) Amd. 1	2000-03-31	7
3.3	ITU-T X.511 (1997) Technical Cor. 2	2001-02-02	7
3.4	ITU-T X.511 (1997) Technical Cor. 3	2005-05-14	17
4.0	ITU-T X.511	2001-02-02	7
4.1	ITU-T X.511 (2001) Technical Cor. 1	2005-05-14	17
4.2	ITU-T X.511 (2001) Technical Cor. 2	2005-11-29	17
4.3	ITU-T X.511 (2001) Cor. 3	2008-05-29	17
5.0	ITU-T X.511	2005-08-29	17
5.1	ITU-T X.511 (2005) Cor. 1	2008-05-29	17
5.2	ITU-T X.511 (2005) Cor. 2	2008-11-13	17
5.3	ITU-T X.511 (2005) Cor. 3	2011-02-13	17
5.4	ITU-T X.511 (2005) Cor. 4	2012-04-13	17
6.0	ITU-T X.511	2008-11-13	17
6.1	ITU-T X.511 (2008) Cor. 1	2011-02-13	17
6.2	ITU-T X.511 (2008) Cor. 2	2012-04-13	17

FOREWORD

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

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

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

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

NOTE

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

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure, e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

INTERNATIONAL STANDARD

RECOMMENDATION ITU-T

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

Technical Corrigendum 4

(covering resolution to defect reports 363, 364 and 367)

1)   Correction of the defects reported in defect report 363

Update the second paragraph of clause 7.6.1 of X.511 as shown:

A `contextSelection` is said to govern ~~an~~ one or more attribute type~~s~~ if any of the following conditions occur:

– the `ContextSelection` specifies `allContexts` (in which case all attribute values of all attribute types are selected);

– the `ContextSelection` data type has a `selectedContexts` component which includes a set of `TypeAndContextAssertion` data types where the ~~whose~~ type component specifies an attribute type including its subtypes that is governed by the `contextAssertions` component ~~the same as or a supertype of the attribute type~~; or

– the `ContextSelection` data type has a `selectedContexts` which component includes a `TypeAndContextAssertion` data types where the ~~whose~~ type ~~is~~ component specifies the object identifiers `id-oa-allAttributeTypes`.

2)   Correction of the defects reported in defect report 364

In clause 12.7 and Annex A update `securityError` as shown:

```
securityError ERROR ::= {
  PARAMETER      OPTIONALLY-PROTECTED { SET {
    problem    [0]  SecurityProblem,
    spkmInfo   [1]  SPKM-ERROR OPTIONAL,
    COMPONENTS OF   CommonResults } }
  CODE            id-errcode-securityError }
```

3)   Correction of the defects reported in defect report 367

In clause 7.10 and in Annex A, delete the `attributeCertificationPath` component of the security parameters and mark the tag as not reusable.

Also in clause 7.10, delete the text associated with the `attributeCertificationPath` component.

Delete the last two sentences of the first paragraph of clause 8.1.1.

In clause 8.1.1 and in Annex A, delete the `attributeCertificationPath` component and mark the tag as not reusable.

In clause 8.1.2, replace the fourth paragraph with:

For the `strong` alternative, the specification for the parameters of `StrongCredential` are:

– the `certificate-path` component, if present, shall hold a certification path as specified by the CertificationPath data type as defined in clause 7.6 of ITU-T Rec. X.509 | ISO/IEC 9594-8;

– the `bind-token` component shall be signed and shall have the subcomponents as specified below; and

– the `name` component shall hold the distinguished name of the requestor.

This enables the bound DSA to authenticate the identity of the requestor establishing the application-association. The corresponding information in the result allows the requestor to authenticate the bound DSA.

If the **spkm** alternative is taken in, information relating to identity is conveyed. This enables the identity of either entity to be authenticated.

Delete the fifth paragraph of clause 8.1.2.

SERIES OF ITU-T RECOMMENDATIONS

Series A   Organization of the work of ITU-T

Series D   General tariff principles

Series E   Overall network operation, telephone service, service operation and human factors

Series F   Non-telephone telecommunication services

Series G   Transmission systems and media, digital systems and networks

Series H   Audiovisual and multimedia systems

Series I   Integrated services digital network

Series J   Cable networks and transmission of television, sound programme and other multimedia signals

Series K   Protection against interference

Series L   Construction, installation and protection of cables and other elements of outside plant

Series M   Telecommunication management, including TMN and network maintenance

Series N   Maintenance: international sound programme and television transmission circuits

Series O   Specifications of measuring equipment

Series P   Terminals and subjective and objective assessment methods

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, open system communications and security

Series Y   Global information infrastructure, Internet protocol aspects and next-generation networks

Series Z   Languages and general software aspects for telecommunication systems