

# ITU-T

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

## X.694

**Corrigendum 1**  
(11/2005)

SERIES X: DATA NETWORKS, OPEN SYSTEM  
COMMUNICATIONS AND SECURITY

OSI networking and system aspects – Abstract Syntax  
Notation One (ASN.1)

---

Information technology – ASN.1 encoding rules:  
Mapping W3C XML schema definitions into ASN.1

**Technical Corrigendum 1**

ITU-T Recommendation X.694 (2004) – Technical  
Corrigendum 1

ITU-T X-SERIES RECOMMENDATIONS  
DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

<b>PUBLIC DATA NETWORKS</b>	
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
<b>OPEN SYSTEMS INTERCONNECTION</b>	
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
<b>INTERWORKING BETWEEN NETWORKS</b>	
General	X.300–X.349
Satellite data transmission systems	X.350–X.369
IP-based networks	X.370–X.379
<b>MESSAGE HANDLING SYSTEMS</b>	X.400–X.499
<b>DIRECTORY</b>	X.500–X.599
<b>OSI NETWORKING AND SYSTEM ASPECTS</b>	
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
<b>Abstract Syntax Notation One (ASN.1)</b>	<b>X.680–X.699</b>
<b>OSI MANAGEMENT</b>	
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
<b>SECURITY</b>	X.800–X.849
<b>OSI APPLICATIONS</b>	
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
<b>OPEN DISTRIBUTED PROCESSING</b>	X.900–X.999
<b>TELECOMMUNICATION SECURITY</b>	X.1000–

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

**Information technology – ASN.1 encoding rules:  
Mapping W3C XML schema definitions into ASN.1**

**Technical Corrigendum 1**

**Summary**

This technical corrigendum corrects three defects found in the ASN.1 module defined in Annex A. It renames two ASN.1 types in order to avoid their possible confusion with an ASN.1 reserved word. It adds a version arc to the OID of that ASN.1 module to facilitate the handling of other versions of the specification. It also corrects errors in the application of XER encoding instructions in the ASN.1 module specified in ITU-T Rec. X.694 | ISO/IEC 8825-5. This technical corrigendum does not change the "bits-on-the-line".

**Source**

Corrigendum 1 to ITU-T Recommendation X.694 (2004) was approved on 29 November 2005 by ITU-T Study Group 17 (2005-2008) under the ITU-T Recommendation A.8 procedure. An identical text is also published as Technical Corrigendum 1 to ISO/IEC 8825-5.

## 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.

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, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

© ITU 2006

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

**INTERNATIONAL STANDARD  
ITU-T RECOMMENDATION**

**Information technology – ASN.1 encoding rules:  
Mapping W3C XML schema definitions into ASN.1**

**Technical Corrigendum 1**

**1) Annexes A and B**

*In Annexes A and B, replace the occurrences of:*

**{joint-iso-itu-t asn1(1) specification(0) modules(0) xsd-module(2)}**

*with:*

**{joint-iso-itu-t asn1(1) specification(0) modules(0) xsd-module(2) version1(1)}**

**2) Annex A**

*a) Replace all 17 occurrences of:*

**DATE-TIME**

*with:*

**DateTimeType**

*b) Replace all three occurrences of:*

**DURATION**

*with:*

**DurationType**

*c) In subclause A.3, replace:*

**ANY-ATTRIBUTES AnyType.any-attributes  
ANY-ELEMENT AnyType.any-elements.\*  
UNTAGGED AnyType.any-elements**

*with:*

**ANY-ATTRIBUTES AnyType.attr  
ANY-ELEMENT AnyType.elem-list.\*  
UNTAGGED AnyType.elem-list**

**3) Annex C**

*In subclause C.2, replace:*

**{joint-iso-itu-t asn1(1) specification(0) modules(0) xsd-module(1)}**

*with:*

**{joint-iso-itu-t asn1(1) specification(0) modules(0) xsd-module(2) version1(1)}**





## 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	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
<b>Series X</b>	<b>Data networks, open system communications and security</b>
Series Y	Global information infrastructure, Internet protocol aspects and next-generation networks
Series Z	Languages and general software aspects for telecommunication systems