

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**X.691**

**Corrigendum 1**  
(05/2005)

SERIES X: DATA NETWORKS, OPEN SYSTEM  
COMMUNICATIONS AND SECURITY

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

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Information technology – ASN.1 encoding rules:  
Specification of Packed Encoding Rules (PER)

**Technical Corrigendum 1**

ITU-T Recommendation X.691 (2002) – 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:  
Specification of packed encoding rules (PER)**

**Technical Corrigendum 1**

**Summary**

This technical corrigendum to ITU-T Rec. X.691 | ISO/IEC 8825-2 clarifies how the "useful types" are to be encoded in PER.

**Source**

Corrigendum 1 to ITU-T Recommendation X.691 (2002) was approved on 14 May 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 8825-2.

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## CONTENTS

	<i>Page</i>
1) Subclause 10.1.4 .....	1
2) Subclause 27.5.7 .....	1
3) Subclause 27.6.3 .....	1



INTERNATIONAL STANDARD  
ITU-T RECOMMENDATION

Information technology – ASN.1 encoding rules:  
Specification of packed encoding rules (PER)

Technical Corrigendum 1

Conventions used in this corrigendum: Original, unchanged, text is in normal font. Deleted text is struck-through, thus: ~~deleted text~~. Inserted text is underlined, thus: inserted text.

1) Subclause 10.1.4

Add the following note to 10.1.4 (retaining the existing note as NOTE 1):

NOTE 2 – Zero-length octet-aligned bit-fields can never be present in the field-list (see 10.9.3.3).

2) Subclause 27.5.7

Replace 27.5.7 with the following:

**27.5.7** If "aub" does not equal "alb" or is greater than or equal to 64K, then 10.9 shall be invoked to add the bit-field preceded by a length determinant with "n" as a count of the characters in the character string with a lower bound for the length determinant of "alb" and an upper bound of "aub". The bit-field shall ~~then~~ be added as a field (octet-aligned in the ALIGNED variant) if "aub" times "b" is greater than or equal to 16, but shall otherwise be added as a bit-field that is not octet-aligned. This completes the procedures of this subclause.

3) Subclause 27.6.3

Replace 27.6.3 with the following:

**27.6.3** Subclause 10.9 shall be invoked to add ~~an unconstrained length determinant with "n" as a count in octets and the field of "n" octets shall be added~~ as a bit-field (octet-aligned in the ALIGNED variant), preceded by an unconstrained length determinant with "n" as a count in octets, completing the procedures of this subclause.





## 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