

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)

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

Technical Corrigendum 1

ITU-T Recommendation X.691 (2002) – Technical
Corrigendum 1

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

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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.

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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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.

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