



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.691

Amendment 1
(06/99)

SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATIONS

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

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

Amendment 1: Relative object identifiers

ITU-T Recommendation X.691 – Amendment 1

(Previously CCITT Recommendation)

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INTERNATIONAL STANDARD 8825-2

ITU-T RECOMMENDATION X.691

**INFORMATION TECHNOLOGY – ASN.1 ENCODING RULES:
SPECIFICATION OF PACKED ENCODING RULES (PER)**

**AMENDMENT 1
Relative object identifiers**

Summary

Amendment 1 to ITU-T Rec. X.691 | ISO/IEC 8825-2 specifies how the relative object identifier type is to be encoded in PER.

Source

Amendment 1 to the ITU-T Recommendation X.691 was approved on the 18th of June 1999. The identical text is also published as ISO/IEC International Standard 8825-2.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The 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 Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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 term *recognized operating agency (ROA)* includes any individual, company, corporation or governmental organization that operates a public correspondence service. The terms *Administration*, *ROA* and *public correspondence* are defined in the *Constitution of the ITU (Geneva, 1992)*.

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As of the date of approval of this Recommendation, the 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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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

**INFORMATION TECHNOLOGY – ASN.1 ENCODING RULES:
SPECIFICATION OF PACKED ENCODING RULES (PER)**

**AMENDMENT 1
Relative object identifiers**

1) Subclause 9.6.1

Add "relative object identifier" after "object identifier" in 9.6.1.

2) New clause 23 bis

Add a new clause 23 bis as follows:

23 bis Encoding the relative object identifier type

NOTE – (Tutorial) A relative object identifier type encoding uses the contents octets of BER preceded by a length determinant that will in practice be a single octet. The following text is identical to that of clause 23.

The encoding specified for BER shall be applied to give an octet-aligned-bit-field which is the contents octets of the BER encoding. The contents octets of this BER encoding consists of "n" (say) octets and is placed in an octet-aligned-bit-field of "n" octets. The procedures of 10.9 shall be invoked to append this octet-aligned-bit-field to the field-list, preceded by a length determinant equal to "n" as a semi-constrained whole number octet count.

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