



**INTERNATIONAL STANDARD ISO/IEC 8825-7:2015**  
**TECHNICAL CORRIGENDUM 2**

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## **Information technology — ASN.1 encoding rules —**

### **Part 7: Specification of Octet Encoding Rules (OER)**

#### **TECHNICAL CORRIGENDUM 2**

*Technologies de l'information — Règles de codage ASN.1*

*Partie 7: Spécification des règles de codage des octets (OER)*

*RECTIFICATIF TECHNIQUE 2*

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INTERNATIONAL STANDARD  
ITU-T RECOMMENDATION

## Information technology – ASN.1 encoding rules: Specification of Octet Encoding Rules (OER)

## Technical Corrigendum 2

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 Clause 12.2**

Replace clause 12.2 with the following:

If all of the following are true:

- a) the lower bound of the effective value constraint of the mantissa is greater than or equal to  $-2^{24} + 1$  ( $-16777215$ ) and its upper bound is less than or equal to  $2^{24} - 1$  ( $16777215$ );
- b) the effective value constraint of the base is the fixed value 2; and
- c) the lower bound of the effective value constraint of the exponent is greater than or equal to  ~~$-323126$~~  and its upper bound is less than or equal to  $292127$ ,

then the real value shall be encoded in the binary32 (single precision) floating-point format specified in IEEE 754.

**2 Clause 12.3**

Replace clause 12.3 with the following:

**12.3** Otherwise, if all of the following are true:

- a) the lower bound of the effective value constraint of the mantissa is greater than or equal to  $-2^{53} + 1$  ( $-9007199254740991$ ) and its upper bound is less than or equal to  $2^{53} - 1$  ( $9007199254740991$ );
- b) the effective value constraint of the base is the fixed value 2; and
- c) the lower bound of the effective value constraint of the exponent is greater than or equal to  ~~$-10741022$~~  and its upper bound is less than or equal to  $9714023$ ,

then the real value shall be encoded in the binary64 (double precision) floating-point format specified in IEEE 754.

**3 Clause 16.1**

Replace clause 16.1 with:

**16.1** The encoding of a sequence value shall consists of the following parts, in order:

- a) preamble;
- b) encodings of the components in the extension root;
- c) extension addition presence bitmap (optional); and
- d) encodings of the extension additions (optional).

NOTE – Each of these parts occupies a whole number of octets.

**4 Clause 18.1**

Replace clause 18.1 with:

**18.1** The value of a set type shall be encoded as if the type had been declared a sequence type, except that the components in the "RootComponentTypeList" of the set type (as well as the preamble bits) shall be encoded in the order specified in 18.2.