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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 -323~~126~~ and its upper bound is less than or equal to 292~~127~~,

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 -1074~~1022~~ and its upper bound is less than or equal to 971~~1023~~,

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 encodings of a sequence value shall consist~~s~~ 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.