

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.694

Corrigendum 1
(10/2019)

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:
Mapping W3C XML schema definitions into ASN.1

Technical Corrigendum 1

Recommendation ITU-T X.694 (2015) – Technical
Corrigendum 1

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**Information technology – ASN.1 encoding rules: Mapping
W3C XML schema definitions into ASN.1**

Technical Corrigendum 1

Summary

This technical corrigendum to Rec. ITU-T X.694 | ISO/IEC 8825-5 provides corrections to the two normative Annexes A and B to properly represent the mapping of xsd.float and xsd.double to ASN.1.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T X.694	2004-01-13	17	11.1002/1000/7106
1.1	ITU-T X.694 (2004) Technical Cor. 1	2005-11-29	17	11.1002/1000/8639
1.2	ITU-T X.694 (2004) Amd. 1	2007-05-29	17	11.1002/1000/9111
2.0	ITU-T X.694	2008-11-13	17	11.1002/1000/9612
2.1	ITU-T X.694 (2008) Cor. 1	2011-10-14	17	11.1002/1000/11382
2.2	ITU-T X.694 (2008) Cor. 2	2014-03-01	17	11.1002/1000/12149
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3.1	ITU-T X.694 (2015) Cor. 1	2019-10-14	17	11.1002/1000/14040

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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INTERNATIONAL STANDARD
RECOMMENDATION ITU-T

Information technology – ASN.1 encoding rules: Mapping
W3C XML schema definitions into ASN.1

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 Clause A.3

Replace the definitions of Decimal, Float and Double with the following:

```
/* xsd:decimal */
Decimal ::= REAL (0 | WITH COMPONENTS {..., base(10)})
(ALL EXCEPT(-0 | MINUS-INFINITY | PLUS-INFINITY | NOT-A-NUMBER))

/* xsd:double */
Double ::= REAL (0 | MINUS-INFINITY | PLUS-INFINITY | NOT-A-NUMBER | WITH COMPONENTS {
    mantissa(-9007199254740991..9007199254740991),
    base(2),
    exponent(-1075..970)})

/* xsd:float */
Float ::= REAL (0 | MINUS-INFINITY | PLUS-INFINITY | NOT-A-NUMBER | WITH COMPONENTS {
    mantissa(-16777215..16777215),
    base(2),
    exponent(-149..104)})
```

2 Clause B.3

Replace the definitions of Decimal, Float and Double with the following:

```
/* xsd:decimal */
Decimal ::= REAL (0 | WITH COMPONENTS {..., base(10)})
(ALL EXCEPT(-0 | MINUS-INFINITY | PLUS-INFINITY | NOT-A-NUMBER))

/* xsd:double */
Double ::= REAL (0 | MINUS-INFINITY | PLUS-INFINITY | NOT-A-NUMBER | WITH COMPONENTS {
    mantissa(-9007199254740991..9007199254740991),
    base(2),
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/* xsd:float */
Float ::= REAL (0 | MINUS-INFINITY | PLUS-INFINITY | NOT-A-NUMBER | WITH COMPONENTS {
    mantissa(-16777215..16777215),
    base(2),
    exponent(-149..104)})
```


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