



**INTERNATIONAL STANDARD ISO/IEC 8824-1:2008**  
**TECHNICAL CORRIGENDUM 2**

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## **Information technology — Abstract Syntax Notation One (ASN.1): Specification of basic notation**

### **TECHNICAL CORRIGENDUM 2**

*Technologies de l'information — Notation de syntaxe abstraite numéro un (ASN.1): Spécification de la notation de base*

*RECTIFICATIF TECHNIQUE 2*

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INTERNATIONAL STANDARD  
RECOMMENDATION ITU-TInformation technology – Abstract Syntax Notation One (ASN.1):  
Specification of basic notation

## Technical Corrigendum 2

Conventions used in this corrigendum: Original, unchanged text is in normal font. Deleted text is struck-through, e.g., ~~deleted text~~. Inserted text is underlined, e.g., inserted text.

1) **Clause 11**

Add the following line in Table 2 after the line related to RIGHT CURLY BRACKET:

– (NON-BREAKING HYPHEN)

Add a new clause 11.8 and a NOTE as follows:

**11.8** The NON-BREAKING HYPHEN and the HYPHEN-MINUS should be treated as identical in all names.

NOTE – A name such as My-Type is the same name whether it contains a HYPHEN-MINUS or a NON-BREAKING HYPHEN.

2) **Clause 12.1.6**

Add the following new line after SPACE(32):

NO-BREAK SPACE ({0,0,0,160})

3) **Clause 16.2**

Modify clause 16.2 as follows:

**16.2** A "valuereference" shall be assigned a value by the notation specified by either the "ValueAssignment" or "XMLValueAssignment" productions:

ValueAssignment ::=

valuereference

Type

"::="

Value

XMLValueAssignment ::=

valuereference

"::="

XMLTypedValue

XMLTypedValue ::=

"<" & NonParameterizedTypeName ">"

XMLValue

"</" & NonParameterizedTypeName ">"

| "<" & NonParameterizedTypeName ">"

The value being assigned to the "valuereference" in the "ValueAssignment" is "Value", and is governed by "Type" and shall be a notation for a value of the type defined by "Type" (as specified in 16.3). The value being assigned to the "valuereference" in the "XMLValueAssignment" is "XMLValue" (see 17.7), and shall be a notation for a value of the

type defined by "NonParameterizedTypeName" (as specified in 16.4). If this is the "xmlasnltypename" item, then it identifies the ASN.1 built-in type in the corresponding row of Table 4 (see also 14.3). Whitespace is permitted around "XMLValue" in "XMLTypedValue" except where explicitly forbidden (see 41.9 and Rec. ITU-T X.693 | ISO/IEC 8825-4, 31.3.4.1).

4) **Clause 33.6**

Modify the example of clause 33.6 as follows:

EXAMPLE

With the following definitions:

```

thisUniversity OBJECT IDENTIFIER ::=
    {iso member-body country(29) joint-iso-itu-t example(999) universities(56) thisuni(32)}
firstgroup RELATIVE-OID ::= {science-fac(4) maths-dept(3)}
    
```

or in XML value notation:

```

thisUniversity ::= <OBJECT_IDENTIFIER>1.2.29.999.56.32</OBJECT_IDENTIFIER>
firstgroup ::= <RELATIVE_OID>4.3</RELATIVE_OID>
    
```

the relative object identifier:

```

relOID RELATIVE-OID ::= {firstgroup room(4) socket(6)}
    
```

or in XML value notation:

```

relOID ::= <RELATIVE_OID>4.3.4.6</RELATIVE_OID>
    
```

can be used instead of the **OBJECT IDENTIFIER** value {~~1-2 29 999 56 32 4 3 4 6~~} if the current root (known by the application or transmitted by the application) is **thisUniversity**.

5) **Clause 34.5**

Modify the examples of clause 34.5 as follows:

EXAMPLES

With identifiers assigned as specified in Rec. ITU-T X.660 | ISO/IEC 9834-1 and ISO/IEC 19785 the object identified by:

```

{iso registration-authority cbeff (19785) organizations(0) jtc1-sc37(257) patron-
formats(1) tlv-encoded (5)}
    
```

or in XML value notation:

```

<OID>1.31.19785.0.257.1.5</OID>
    
```

which identifies a TLV-encoded CBEFF Patron Format, could also have an ASN.1 OID-IRI identification of

```

"/ISO/Registration_Authority/19785.CBEFF/Organizations/JTC1-SC37/Patron-
formats/TLV-encoded"
    
```

Or, in XML value notation:

```

<OID-IRI>/ISO/Registration_Authority/19785.CBEFF/Organizations/JTC1-SC37/Patron-
formats/TLV-encoded</OID-IRI>
    
```

6) **Clause 41.9**

Modify clause 41.9 as follows:

**41.9** The "XMLRestrictedCharacterStringValue" notation is:

```

XMLRestrictedCharacterStringValue ::= xmlcstring
    
```

Whitespace shall not occur around "XMLValue" in "XMLTypedValue" (see 16.2) for an "XMLRestrictedCharacterStringValue" except where this notation is used in an encoding and the encoding rules explicitly allow the whitespace (see Rec. ITU-T X.693 | ISO/IEC 8825-4, 39.3.2).