



**INTERNATIONAL STANDARD ISO/IEC 8824-1:2015**  
**TECHNICAL CORRIGENDUM 3**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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

### **Part 1:**

#### **TECHNICAL CORRIGENDUM 3**

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

*Partie 1:*

*RECTIFICATIF TECHNIQUE 3*

Technical Corrigendum 1 to ISO/IEC 8824-1:2015 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*, in collaboration with ITU-T. The identical text is published as Rec. ITU-T X.680 (2015)/Cor.3 (05/2018).

INTERNATIONAL STANDARD  
ITU-T RECOMMENDATION

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

Technical Corrigendum 3

*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 3.8.13**

*Delete the note.*

**2 Clause 11.8**

*Replace clause 11.8 with the following:*

**11.8** The NON-BREAKING HYPHEN and the HYPHEN-MINUS should be treated as identical in all names (including reserved words).

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

**3 Clause 12.1.2**

*Replace clause 12.1.2 with:*

**12.1.2** The lexical items specified in the subclauses of this clause 12 (except multiple-line "comment", "bstring", "xmlbitstring", "hstring", "xmlhstring", and "cstring", "xmlcstring" and "simplestring") shall not contain white-space (see 12.6, 12.10, 12.11, 12.12, 12.13, and 12.14, 12.15 and 12.16). A single-line "comment" shall not contain "new-line" characters. The "non-integerUnicodeLabel" lexical item may include the NON-BREAKING-SPACE character.

**4 Clause 12.9**

*Replace clause 12.9 with:*

**12.9 Real numbers**

Name of lexical item – realnumber

A "realnumber" shall consist of an integer part that is a series of one or more digits, and optionally a decimal point (.). The decimal point can optionally be followed by a fractional part which is one or more digits. The integer part, decimal point or fractional part (whichever is last present) can optionally be followed by an e or E and an optionally-signed exponent which is one or more digits. The leading digit of the "realnumber" shall not be zero unless it is either the only digit or is immediately followed by a decimal point followed by a fractional part of which at least one digit is not zero. ~~The leading digit of the exponent shall not be zero unless the exponent is a single digit.~~

A "number" is also a valid instance of "realnumber". In analyzing an instance of use of this notation, a "realnumber" is distinguished from a "number" by the context in which it appears.

## 5 Clause 12.13.3

Replace clause 12.3.3 with:

**12.13.3** ~~Some~~All instances of "xmlhstring" are also valid instances of ~~"xmlbstring"~~ and "xmlcstring", and some instances are also valid instances of "xmlbstring". In analyzing an instance of use of this notation, an "xmlhstring" is distinguished from an "xmlbstring" or "xmlcstring" by the context in which it appears.

## 6 Clause 12.27

Replace clause 12.27 with:

### 12.27 Non-integer Unicode labels

Name of lexical item – non-integerUnicodeLabel

This lexical item shall consist of an arbitrarily long sequence of ISO/IEC 10646 characters that satisfies the constraints specified in Rec. ITU-T X.660 | ISO 9834-1, 7.2-5 and identifies an arc of the International Object Identifier tree. For lexical parsing purposes, it shall not consist only of characters that would enable it to be identified as an "integerUnicodeLabel".

## 7 Clause 12.37

In clause 12.37, delete the line " " (SPACE).

## 8 Clause 13.1

In clause 13.1, replace the *DefinitiveIdentification* production with the following (deleting the first vertical bar):

```
DefinitiveIdentification ::=
    | DefinitiveOID
    | DefinitiveOIDandIRI
    | empty
```

## 9 Annex L

In Annex L, replace the *DefinitiveIdentification* production with the following (deleting the first vertical bar):

```
DefinitiveIdentification ::=
    | DefinitiveOID
    | DefinitiveOIDandIRI
    | empty
```

Replace the *ComponentTypeLists* production with the following (inserting a *t* in *ExtensionEndMarker*):

```
ComponentTypeLists ::=
    RootComponentTypeList
    | RootComponentTypeList "," ExtensionAndException ExtensionAdditions
      OptionalExtensionMarker
    | RootComponentTypeList "," ExtensionAndException ExtensionAdditions
      ExtensionEndMarker "," RootComponentTypeList
    | ExtensionAndException ExtensionAdditions ExtensionEndMarker ","
      RootComponentTypeList
    | ExtensionAndException ExtensionAdditions OptionalExtensionMarker
```

Delete the first occurrence of the *EncodingPrefixedType* production, and the first occurrence of the *EncodingPrefix* production, retaining the second occurrence of each:

```
EncodingPrefixedType ::=
    EncodingPrefix Type
```

```
EncodingPrefix ::=
    "[" EncodingReference EncodingInstruction "]"
```