



**INTERNATIONAL STANDARD ISO/IEC 8824-1:1998
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

Technical Corrigendum 2 to International Standard ISO/IEC 8824-1:1998 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – ABSTRACT SYNTAX NOTATION ONE (ASN.1):
SPECIFICATION OF BASIC NOTATION

TECHNICAL CORRIGENDUM 2

1) Subclause 12.1 and Annex G

Change subclause 12.1 and Annex G so that "Exports" is as follows:

```
Exports ::=
    EXPORTS SymbolsExported ";" |
    EXPORTS ALL ";" |
    empty
```

2) Subclause 12.3

Replace the sentence:

This transformation is formally specified by 24.7 to 24.9, 26.3 and 28.2 regarding the notation for sequence types, set types and choice types, respectively.

by:

This transformation is formally specified by 24.7 to 24.9, 26.3 and 28.2 to 28.3 regarding the notation for sequence types, set types and choice types, respectively.

3) Subclause 12.13

Replace subclause 12.13 with the following:

12.13 When either the "empty" alternative or the "EXPORTS ALL" alternative of "Exports" is selected, every "Symbol" defined in the module or imported by the module may be referenced from other modules subject to the restriction specified in subclause 12.12 a).

4) Subclause 14.3 and Annex G

Change subclause 14.3 and Annex G so that "AbsoluteReference" is as follows:

```
AbsoluteReference ::= "@" ModuleIdentifier
    "."
    ItemSpec
```

5) Subclause 14.4

Replace subclause 14.4 with the following:

The "ModuleIdentifier" identifies an ASN.1 module (see 12.1).

6) New subclause 14.4 bis

Add a new subclause 14.4 bis as follows:

14.4 bis When the first alternative of "DefinitiveIdentifier" is used as part of the "ModuleIdentifier", the "DefinitiveIdentifier" unambiguously and uniquely identifies the module from which an item is being referenced.

7) Subclause 14.5

Replace subclause 14.5 with the following:

14.5 The "typereference" references any ASN.1 type defined in the module identified by "ModuleIdentifier".

8) Subclause 19.1 and Annex G

Change subclause 19.1 and Annex G so that "Enumerations" is as follows:

```
Enumerations ::= RootEnumeration |  
                RootEnumeration "," "..." ExceptionSpec |  
                RootEnumeration "," "..." ExceptionSpec "," AdditionalEnumeration
```

9) Subclause 24.5.1

Delete "if automatic tagging has be applied" from the end of the last sentence.

10) Subclause 24.6

Replace subclause 24.6 by:

24.6 When the third or the fourth alternative of "ComponentTypeLists" is used, all "ComponentType"s in extension additions shall have tags which are distinct from the tags of the textually following "ComponentType"s up to and including the first such "ComponentType" that is not marked OPTIONAL or DEFAULT in the trailing "RootComponentTypeList", if any.

11) Subclause 24.8

Replace subclause 24.8 by:

24.8 If automatic tagging is in effect and the "ComponentType"s in the extension root have no tags, then no "ComponentType" within the "ExtensionAdditionList" shall be a "TaggedType".

12) Subclause 24.9

Replace the beginning of subclause 24.9 c) by:

c) the "ClassNumber" in the replacement "TaggedType" is the tag value zero for the first "ComponentType" in the "RootComponentTypeList", one for the second, and so on, proceeding with increasing tag numbers;

Replace NOTE 2 by:

NOTE 2 – Once 24.7 is satisfied, the tags of the components are completely determined, and are not modified even when the sequence type is referenced in the definition of a component within another "ComponentTypeLists" for which automatic tagging transformation applies. Thus, in the following case:

```
T ::= SEQUENCE { a Ta, b Tb, c Tc }  
E ::= SEQUENCE { f1 E1, f2 T, f3 E3 }
```

automatic tagging applied to the components of E never affects the tags attached to components a, b and c of T, whatever the tagging environment of T. If T is defined in an automatic tagging environment and E is not in an automatic tagging environment, automatic tagging is still applied to components a, b and c of T.

Replace NOTE 5 by:

NOTE 5 – When automatic tagging is in place, insertion of new components at any location other than the extension insertion point (see 3.8.29) may result in changes to other components due to the side effect of modifying the tags thus causing interworking problems with an older version of the specification.