



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**X.682**

**Corrigendum 3**  
(03/2001)

SERIES X: DATA NETWORKS AND OPEN SYSTEM  
COMMUNICATIONS

OSI networking and system aspects – Abstract Syntax  
Notation One (ASN.1)

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Information technology – Abstract syntax notation  
one (ASN.1): Constraint specification

**Corrigendum 3**

***CAUTION !***

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**TITLE:** Draft Technical Corrigendum 3 to ITU-T Recommendation X.682 | ISO/IEC 8824-3, Information technology — Abstract Syntax Notation One (ASN.1): Constraint specification

## **Summary**

This Technical Corrigendum to ITU-T Rec. X.682 | ISO/IEC 8824-3 allows a ComponentRelationConstraint to reference through SET OF and SEQUENCE OF types.

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

TECHNICAL CORRIGENDUM 3 TO X.682

1) Subclause 10.7

In clause 10.7 replace the following:

```
AtNotation ::=  
    "@" ComponentIdList |  
    "@." ComponentIdList
```

with:

```
AtNotation ::=  
    "@" ComponentIdList |  
    "@." Level ComponentIdList  
Level ::= "." Level | empty
```

2) Subclause 10.10

In clause 10.10 b, replace the text with the following:

- b) if the second alternative of "AtNotation" is selected (there is a "." following the "@"), then the parent structure is obtained by moving upwards from the innermost textually enclosing set type or sequence type by a number of levels (set, set-of, sequence, sequence-of, choice) equal to the number of additional "." following "@.". The number of additional "." shall not exceed the number of constructions (set, set-of, sequence, sequence-of, choice) containing the innermost set or sequence type where the AtNotation occurs.

Replace the Note with the following:

NOTE – The "AtNotation" is only permitted when it is textually within a set type or sequence type, and references some other field which is textually within the same set or sequence type, though possibly at a different level of nesting in constructions involving combination of sequence, sequence-of, set, set-of and choice types.

Replace the Example with the following:

**Example**

In the following example "@...." illustrates case b) above:

```
ErrorMessage ::= SEQUENCE {  
    severity ERROR.&severity({Errors}),  
    parameters SEQUENCE OF SEQUENCE {  
        errorId ERROR.&id({Errors}),  
        data SEQUENCE OF SEQUENCE {  
            value ERROR.&Type({Errors}){@severity}@....errorId},  
            text VisibleString}}
```

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