



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

**Technical Corrigendum 3**

ITU-T Recommendation X.682 – Corrigendum 3

(Formerly CCITT Recommendation)

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

**TECHNICAL CORRIGENDUM 3**

**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.

**Source**

Corrigendum 3 to ITU-T Recommendation X.682 was prepared by ITU-T Study Group 7 (2001-2004) and approved on 15 March 2001. An identical text is also published as Technical Corrigendum 3 to ISO/IEC 8824-3.

## FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

## NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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INTERNATIONAL STANDARD  
ITU-T RECOMMENDATIONINFORMATION TECHNOLOGY – ABSTRACT SYNTAX NOTATION ONE (ASN.1):  
CONSTRAINT SPECIFICATION

## TECHNICAL CORRIGENDUM 3

## 1) Subclause 10.7

In 10.7, replace the following:

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

with:

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

## 2) Subclause 10.10

In 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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