DEFECT REPORT FORM

1.   Defect Report Number: **228**

     Title: ASN.1 errors in Protection feature in X.501

2.   Source: CEN/ISSS/WS-DIR (ISSS-x511-1)

3.   Addressed to: ISO/IEC JTC1/SC6 and ITU-T SG 7

          Editor Group on the Directory

4.   (a) WG Secretariat: UK (BSI)
     (b) ITU-T WP: WP 4

5.   Date Circulated by WG Secretariat:

6.   Deadline for Response from Editor:

7.   Defect Report Concerning: ITU-T Rec. X.501 (1997) | ISO/IEC 9594-2:1998

8.   Qualifier: Error

9.   References in Document: Subclause 15.3.2 and Annex P

10.   Nature of Defect:

The **OPTIONALLY-PROTECTED** parameterized type has in the second choice a referenced to the **signed** object of the **PROTECTION-MAPPING** information object class. However, the object reference is spelled with a capital **S**.

The **DIRQOP** information object class has quite a large number of fields where the **DefinedObjectClass** item should specify the **PROTECTION-MAPPING** object class of which an instance should specify the protection to be used for the PDU type indicated in the **objectfieldreference**. However, the syntax is invalid. The **PROTECTION-MAPPING:protectionReqd** should only be **PROTECTION-MAPPING**.

11.   Solution Proposed by the Source: (optional)

In 15.3.2 and in Annex P in the type:

```
OPTIONALLY-PROTECTED {ToBeProtected, PROTECTION-MAPPING:generalProtection} ::=
     CHOICE {
          toBeProtected     ToBeProtected,
                                  --no DIRQOP specified for operation
          signed            PROTECTED {ToBeProtected, Signed},
                                  --DIRQOP is Signed
          protected         [APPLICATION 0]
                                  PROTECTED { ToBeProtected, generalProtection } }
                                  --DIRQOP is other than Signed
```

change

PROTECTED {ToBeProtected, Signed}
                                        --DIRQOP is Signed
………..
                                        --DIRQOP is other than Signed

to:

PROTECTED {ToBeProtected, signed}
                                        --DIRQOP is "signed"
………..
                                        --DIRQOP is other than "signed"

In 15.3.2 and in Annex P change the field specifications of the **DIRQOP** information object class to:

```
{
        &dirqop-Id                              OBJECT IDENTIFIER UNIQUE,
        &dirBindError-QOP                       PROTECTION-MAPPING,
        &dirErrors-QOP                          PROTECTION-MAPPING,
        &dapReadArg-QOP                         PROTECTION-MAPPING,
        &dapReadRes-QOP                         PROTECTION-MAPPING,
        &dapCompareArg-QOP                      PROTECTION-MAPPING,
        &dapCompareRes-QOP                      PROTECTION-MAPPING,
        &dapListArg-QOP                         PROTECTION-MAPPING,
        &dapListRes-QOP                         PROTECTION-MAPPING,
        &dapSearchArg-QOP                       PROTECTION-MAPPING,
        &dapSearchRes-QOP                       PROTECTION-MAPPING,
        &dapAbandonArg-QOP                      PROTECTION-MAPPING,
        &dapAbandonRes-QOP                      PROTECTION-MAPPING,
        &dapAddEntryArg-QOP                     PROTECTION-MAPPING,
        &dapAddEntryRes-QOP                     PROTECTION-MAPPING,
        &dapRemoveEntryArg-QOP                  PROTECTION-MAPPING,
        &dapRemoveEntryRes-QOP                  PROTECTION-MAPPING,
        &dapModifyEntryArg-QOP                  PROTECTION-MAPPING,
        &dapModifyEntryRes-QOP                  PROTECTION-MAPPING,
        &dapModifyDNArg-QOP                     PROTECTION-MAPPING,
        &dapModifyDNRes-QOP                     PROTECTION-MAPPING,
        &dspChainedOp-QOP                       PROTECTION-MAPPING,
        &dispShadowAgreeInfo-QOP                PROTECTION-MAPPING,
        &dispCoorShadowArg-QOP                  PROTECTION-MAPPING,
        &dispCoorShadowRes-QOP                  PROTECTION-MAPPING,
        &dispUpdateShadowArg-QOP                PROTECTION-MAPPING,
        &dispUpdateShadowRes-QOP                PROTECTION-MAPPING,
        &dispRequestShadowUpdateArg-QOP         PROTECTION-MAPPING,
        &dispRequestShadowUpdateRes-QOP         PROTECTION-MAPPING,
        &dopEstablishOpBindArg-QOP              PROTECTION-MAPPING,
        &dopEstablishOpBindRes-QOP              PROTECTION-MAPPING,
        &dopModifyOpBindArg-QOP                 PROTECTION-MAPPING,
        &dopModifyOpBindRes-QOP                 PROTECTION-MAPPING,
        &dopTermOpBindArg-QOP                   PROTECTION-MAPPING,
        &dopTermOpBindRes-QOP                   PROTECTION-MAPPING
}
```


12.   <u>Editor's Response</u>:

      (any material proposed for processing as an erratum to, an amendment to, or a commentary

      on the IS or DIS final text/ITU Recommendation or Draft Recommendation is attached