DEFECT REPORT FORM

1. Defect Report Number: 9594/257

Title: Renaming forward and reverse

2. Source: X.509 Editor

3. Addressed to:
4. (a)
    (b)

5. Date circulated by WG Secretariat:

6. Deadline for Response from Editor:

7. Defect Report Concerning:

ITU-T X.509 (1997 and 2000 editions) | ISO/IEC 9594-8:1997 and 2000
editions

8. Qualifier:

Clarification

9. References in Document:

1997 edition (clause 8, 12.7.3, 12.7.4 and Annex A) & 2000 edition
(clause 7, 11.2.3, 11.3.3, 11.3.4, and Annex A)

10. Nature of Defect:

The use of 'forward' and 'reverse' within the CertificatePair construct
in crossCertificatePair attribute definition has been the source of
great confusion. In a given CA's directory entry, the 'forward'
component, if present, of a value of that attribute holds a certificate
issued TO that CA and the 'reverse' component, if present, holds a
certificate issued BY that CA to some other CA.

A certificate using system that is building a path of certificates
using the information in that directory entry would make use of the
certificate(s) stored in the 'forward' component if they are developing
their path of certificates from the end-entity certificate toward a
trust anchor and would make use of the 'reverse' component if they are
developing their path of certificates from the trust anchor toward the
end-entity certificate. Generally, these path development directions
are described opposite to the directions of the component (i.e. a path
developed in the reverse direction uses the forward component and a
path developed in the forward direction uses the reverse component).

11. Solution Proposed by the Source:

In the asn.1 construct **CertificatePair,**

replace "forward" with "issuedByThisCA" and
replace "reverse" with "issuedToThisCA"

In the descriptive text, throughout X.509, update the text accordingly
to reflect these new terms. This includes:

- general descriptive text in clause 8(1997), clause 7 (2000),
- asn.1 and descriptive text for the cross certificate pair attribute
  in clause 8 (1997) and clause 11.2.3 (2000),
- asn.1 and descriptive text for the associated matching rules in
  clause 12.7.3 and 12.7.4 (1997) and clauses 11.3.3 and 11.3.4 (2000)
  and
- the duplicate asn.1 constructs in Annex A.

12. Editor's Response:

A