

DEFECT REPORT FORM

1. Defect Report Number: 9594/258

Title: Certificate Path Loops

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 and clause 12.4.3) & 2000 edition (clause 7 and clause 10.1)

10. Nature of Defect:

With recent policy related enhancements to X.509, it has become necessary to explicitly state that any CA-certificate may only appear once in a given certification path. Otherwise, path validation may be caught in an unintended and endless loop.

11. Solution Proposed by the Source:

In clause 8 (1997 edition) and clause 7 (2000 edition), add the following as a new paragraph at the end of the clause, immediately before the first subclause (8.1 in 1997 text and 7.1 in 2000 text).

"Each certificate in a certification path shall be unique. No certificate may appear more than once in a value of **theCACertificates** component of **CertificationPath** or in a value of **certificate** in the **CrossCertificates** component of **ForwardCertificationPath**."

In clause 12.4.3 (1997 edition) and clause 10.1 (2000 edition) add the following note immediately after bullet a) a set of certificates ...

"Note: A each certificate in a certification path is unique. A path that contains the same certificate two or more times is not a valid certification path."

12. Editor's Response: