

# ISO/IEC 15945:2002-02 (E)

## Information technology - Security techniques - Specification of TTP services to support the application of digital signatures

---

### Contents

Page

Reference number INTERNATIONAL STANDARD 15945 First edition 2002-02-01 Information technology -- Security techniques -- Specification of TTP services to support the application of digital signatures Technologies de l'information -- Techniques de sécurité -- Spécifications des services TTP pour supporter l'application des signatures numériques PDF disclaimer This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area. Adobe is a trademark of Adobe Systems Incorporated. Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below. or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester. ISO copyright office Case postale 56 · CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.ch Web www.iso.ch CONTENTS 1 Scope ..... 1

2 Normative references ..... 1

2.1 Identical Recommendations ..... International Standards|2

2.2 Additional references ..... 2

3 Definitions ..... 3

4 Abbreviations ..... 4

5 Descriptive classification of services ..... 5

5.1 Certificate management services ..... 5

5.2 Key management services ..... 8

5.3 Other services ..... 9

6 Minimal certificate and CRL profile ..... 10

6.1 Minimal certificate profile ..... 10

6.2 Minimal CRL profile ..... 11

7 Certificate management messages ..... 11

7.1 Overview of certificate management services and messages ..... 12

7.2 Assumptions and restrictions for some of the services ..... 15

8 Data structures for certificate management messages ..... 19

8.1 Overall message ..... 19

8.2 Common Data Structures ..... 22

8.3 Data structures specific for Certificate Request Messages of type CertReq ..... 24

8.4 Data structures specific for other messages ..... 29

8.5 Transport protocols ..... 32

8.6 Complete ASN.1 Module ..... 32

9 Online Certificate Status Protocol ..... 40

9.1 Protocol Overview ..... 40

9.2	Functional Requirements .....	42
9.3	Detailed Protocol .....	43
9.4	ASN.1 Module for OCSP .....	47
Annex A - Interworking .....		50
Annex B - Algorithms .....		51
B.1	Hash Algorithms .....	51
B.2	Digital Signature Algorithms .....	51
Annex C - Bibliography .....		52