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Partie 2: Mécanismes utilisant une clé publique de groupe



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

ISO/IEC 20008-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

ISO/IEC 20008 consists of the following parts, under the general title *Information technology — Security techniques — Anonymous digital signatures*:

- *Part 1: General*
- *Part 2: Mechanisms using a group public key*

Further parts may follow.

This corrected version of ISO/IEC 20008-2:2013 incorporates the following correction:

- in [6.5.4](#), step g) has been corrected and step h) has been added consequently.

Introduction

Anonymous digital signature mechanisms are a special type of digital signature mechanism in which, given a digital signature, an unauthorized entity cannot discover the signer's identifier yet can verify that a legitimate signer has generated a valid signature.

ISO/IEC 20008 specifies anonymous digital signature mechanisms. ISO/IEC 20008-1 specifies principles and requirements for two categories of anonymous digital signatures mechanisms: signature mechanisms using a group public key, and signature mechanisms using multiple public keys. This part of ISO/IEC 20008 specifies a number of anonymous signature mechanisms of the first category.

Anonymous signature mechanisms of the first category can have capabilities for providing more information about the signer. Some have a linking capability, where two signatures signed by the same signer are linkable. Some have an opening capability, where the signature can be opened by a special entity to reveal the identity of the signer. Some have both linking and opening capabilities.

For each mechanism, the processes of opening, linking, and/or revocation are specified.

The mechanisms specified in this part of ISO/IEC 20008 use a collision-resistant hash-function. A hash-function specified in ISO/IEC 10118 is to be used.

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