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Information technology — Security techniques — Encryption algorithms —

Part 5: Identity-based ciphers

AMENDMENT 1: SM9 mechanism

Technologies de l'information — Techniques de sécurité — Algorithmes de chiffrement —

Partie 5: Chiffrements identitaires

AMENDEMENT 1: Mécanisme SM9

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This document was prepared by Technical Committee ISO/IEC JTC1, *Information technology*, Subcommittee SC 27, *Information security, cybersecurity and privacy protection*.

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Part 5: Identity-based ciphers

AMENDMENT 1: SM9 mechanism

Introduction

Replace the second sentence of the fourth paragraph with the following:

> The specified mechanisms are the BF identity-based encryption mechanism, the SK identity-based key encapsulation mechanism, the BB1 identity-based key encapsulation mechanism and the SM9 identity-based key encapsulation mechanism and encryption mechanisms.

Insert the following sentence between the sixth and seventh paragraphs.

> The content of 9.4 follows Reference [8].

4.1

Insert the following line at the end of the table:

$\lceil x \rceil$ smallest integer greater than or equal to the real number x.

5.1

Replace the first sentence with the following:

> The schemes specified in this document make use of four cryptographic transformations, *IHF1*, *SHF1*, *PHF1* and *IHF2* as specified below.

5.1

Add the following to the end:

> Annex A lists the object identifiers which shall be used to identify the algorithms specified in this document.
>
> Annex B describes security considerations for each specified mechanism.
>
> Annex C provides numerical examples.
>
> Annex D introduces techniques which can be used to remove the decryption capability of the PKG, and thereby reduce the level of trust required in this entity.

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