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IT Security techniques — Entity authentication —

Part 2: Mechanisms using authenticated encryption

*Techniques de sécurité IT — Authentification d'entité —
Partie 2: Mécanismes utilisant le chiffrement authentifié*



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Foreword

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This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

This fourth edition cancels and replaces the third edition (ISO/IEC 9798-2:2008), which has been technically revised. It also incorporates the Technical Corrigenda ISO/IEC 9798-2:2008/Cor.1:2010, ISO/IEC 9798-2:2008/Cor.2:2012 and ISO/IEC 9798-2:2008/Cor.3:2013. The main changes compared to the previous edition are as follows:

- replacement of encryption by authenticated encryption;
- inclusion of constants uniquely identifying the mechanism and the instance of authenticated encryption within the mechanism.

A list of all parts in the ISO/IEC 9798 series can be found on the ISO website.

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IT Security techniques — Entity authentication —

Part 2:

Mechanisms using authenticated encryption

1 Scope

This document specifies entity authentication mechanisms using authenticated encryption algorithms. Four of the mechanisms provide entity authentication between two entities where no trusted third party is involved; two of these are mechanisms to unilaterally authenticate one entity to another, while the other two are mechanisms for mutual authentication of two entities. The remaining mechanisms require an on-line trusted third party for the establishment of a common secret key. They also realize mutual or unilateral entity authentication.

[Annex A](#) defines Object Identifiers for the mechanisms specified in this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 9798-1, *Information technology — Security techniques — Entity authentication — Part 1: General*