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Second edition
2011-05-01

Corrected version
2011-06-15

Information technology — Security techniques — Message Authentication Codes (MACs) —

Part 2: Mechanisms using a dedicated hash-function

Technologies de l'information — Techniques de sécurité — Codes d'authentification de message (MAC) —

Partie 2: Mécanismes utilisant une fonction de hachage dédiée

Reference number
ISO/IEC 9797-2:2011(E)



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Published in Switzerland

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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 9797-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

This second edition cancels and replaces the first edition (ISO/IEC 9797-2:2002), which has been technically revised by including MAC algorithms based on Dedicated Hash-Functions 4 – 7 of ISO/IEC 10118-3:2004 and Dedicated Hash-Function 8 of ISO/IEC 10118-3/Amd.1:2006.

ISO/IEC 9797 consists of the following parts, under the general title *Information technology — Security techniques — Message Authentication Codes (MACs)*:

- Part 1: Mechanisms using a block cipher
- Part 2: Mechanisms using a dedicated hash-function
- Part 3: Mechanisms using a universal hash-function

Further parts may follow.

This corrected version of ISO/IEC 9797-2:2011 incorporates corrections to subclauses 3.14, 6.3, 6.3.5 and 6.3.6.

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Introduction

The International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning MAC Algorithm 1 (MDx-MAC) given in Clause 6.

ISO and IEC take no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured ISO and IEC that he is willing to negotiate licenses under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with ISO and IEC. Information may be obtained from:

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