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**Information technology — Security  
techniques — Time-stamping services —**

**Part 1:  
Framework**

*Technologies de l'information — Techniques de sécurité — Services  
d'estampillage de temps —*

*Partie 1: Cadre général*

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Reference number  
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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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 18014-1 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 18014-1:2002), which has been technically revised.

ISO/IEC 18014 consists of the following parts, under the general title *Information technology — Security techniques — Time-stamping services*:

- *Part 1: Framework*
- *Part 2: Mechanisms producing independent tokens*
- *Part 3: Mechanisms producing linked tokens*

## Introduction

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ISO/IEC JTC 1/SC 27 Standing Document 8 (SD 8) "*Patent Information*"

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# **Information technology — Security techniques — Time-stamping services —**

## **Part 1: Framework**

### **1 Scope**

This part of ISO/IEC 18014:

- identifies the objective of a time-stamping authority;
- describes a general model on which time-stamping services are based;
- defines time-stamping services;
- defines the basic protocols between the involved entities.

### **2 Normative references**

The following referenced documents are indispensable for the application 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 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

ISO/IEC 10118 (all parts), *Information technology — Security techniques — Hash-functions*