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Information technology — Security techniques — Specification for digital redaction

*Technologies de l'information — Techniques de sécurité —
Spécifications pour la rédaction numérique*



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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.

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Introduction

Some documents can contain information that must not be disclosed to some communities. Modified documents can be released to these communities after an appropriate processing of the original document. This processing can include the removal of sections, paragraphs or sentences with, where appropriate, the mention that they have been removed. This process is called the “redaction” of the document.

The digital redaction of documents is a relatively new area of document management practice, raising unique issues and potential risks. Where digital documents are redacted, removed information must not be recoverable. Hence, care needs to be taken so that redacted information is permanently removed from the digital document (e.g. it must not be simply hidden within nondisplayable portions of the document).

This International Standard specifies methods for digital redaction of digital documents.

Redaction can also involve the removal of document metadata or the removal of some information (e.g. an image) imported into the document.

It can be possible to identify redacted information in a redacted digital document by context. For example, the length of the redaction replacement text can indicate the length of the redacted information, and thus the information itself. This International Standard introduces two levels of redaction:

- BASIC redaction where context is not taken into consideration;
- ENHANCED redaction where context is taken into consideration.

Redaction techniques can be used for the anonymization of the information in a document, for example by the removal of some names within sentences. It can also involve the removal of numbers within sentences and their replacement by “XXX”.