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EN ISO/IEC 27038:2016 (E)

Contents

Page

European foreword..... 3

European foreword

The text of ISO/IEC 27038:2014 has been prepared by Technical Committee ISO/IEC JTC 1 “Information technology” of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) and has been taken over as EN ISO/IEC 27038:2016.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

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Endorsement notice

The text of ISO/IEC 27038:2014 has been approved by CEN as EN ISO/IEC 27038:2016 without any modification.

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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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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Terms and definitions	1
3 Symbols and abbreviated terms	2
4 General principles of digital redaction	2
4.1 Introduction.....	2
4.2 Anonymization.....	2
5 Requirements	2
5.1 Overview.....	2
5.2 Redaction principles.....	3
6 Redaction processes	4
6.1 Introduction.....	4
6.2 Paper intermediaries.....	4
6.3 Digital image intermediaries.....	4
6.4 Simple digital redaction.....	4
6.5 Complex digital redaction.....	5
6.6 Contextual information.....	5
7 Keeping records of redaction work	6
8 Characteristics of software redaction tools	6
9 Requirements for redaction testing	7
Annex A (informative) Redacting of PDF documents	9

ISO/IEC 27038:2014(E)**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.

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ISO/IEC 27038 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

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”.

Information technology — Security techniques — Specification for digital redaction

1 Scope

This International Standard specifies characteristics of techniques for performing digital redaction on digital documents. This International Standard also specifies requirements for software redaction tools and methods of testing that digital redaction has been securely completed.

This International Standard does not include the redaction of information from databases.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

anonymization

process by which personally identifiable information (PII) is irreversibly altered in such a way that a PII principal can no longer be identified directly or indirectly, either by the PII controller alone or in collaboration with any other party

[SOURCE: ISO/IEC 29100:2011, definition 2.2]

2.2

document

recorded information which can be treated as a unit

Note 1 to entry: Documents can contain text, pictures, video and audio content, metadata and other associated content.

2.3

personally identifiable information

PII

any information that (a) can be used to identify the PII principal to whom such information relates, or (b) is or might be directly or indirectly linked to a PII principal

Note 1 to entry: To determine whether a PII principal is identifiable, account should be taken of all the means which can reasonably be used by the privacy stakeholder holding the data, or by any other party, to identify that natural person.

[SOURCE: ISO/IEC 29100:2011, definition 2.9]

2.4

redaction

permanent removal of information within a document

2.5

reviewer

individual(s) who assesses a document for redaction requirements

Note 1 to entry: There could be a series of individuals who assess a particular document.