SLOVENSKI STANDARD
SIST EN ISO/IEC 27041:2017

01-januar-2017

Informacijska tehnologija - Varnostne tehnike - Smernice za zagotavljanje primernosti in ustreznosti metod za preiskovanje incidentov (ISO/IEC 27041:2015)

Information technology - Security techniques - Guidance on assuring suitability and adequacy of incident investigative method (ISO/IEC 27041:2015)

Informationstechnik - IT-Sicherheitsverfahren - Leitfaden zur Sicherung der Tauglichkeit und Eignung von Vorfall-Untersuchungsmethoden (ISO/IEC 27041:2015)

Technologies de l'information - Techniques de sécurité - Directives sur la façon d'assurer l'aptitude à l'emploi et l'adéquation d'une méthode d'investigation d'incident (ISO/IEC 27041:2015)

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35.030	Informacijska varnost	IT Security

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO/IEC 27041

August 2016

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English Version

Information technology - Security techniques - Guidance on assuring suitability and adequacy of incident investigative method (ISO/IEC 27041:2015)

Technologies de l'information - Techniques de sécurité - Directives sur la façon d'assurer l'aptitude à l'emploi et l'adéquation d'une méthode d'investigation d'incident (ISO/IEC 27041:2015)

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This European Standard was approved by CEN on 19 June 2016.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Contents

Page

European foreword

The text of ISO/IEC 27041:2015 has been prepared by Technical Committee 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 27041:2016.

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of an identical text or by endorsement, at the latest by February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.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 27041:2015 has been approved by CEN as EN ISO/IEC 27041:2016 without any modification.

INTERNATIONAL STANDARD

ISO/IEC 27041

First edition
2015-06-15

Information technology — Security techniques — Guidance on assuring suitability and adequacy of incident investigative method

Technologies de l'information — Techniques de sécurité — Directives sur la façon d'assurer l'aptitude à l'emploi et l'adéquation d'une méthode d'investigation d'incident

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Contents

Page

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, SC 27, *IT Security techniques*.

Introduction

About this International Standard

This International Standard is concerned with providing assurance that the investigative process used is appropriate for the incident under investigation and the results which are required. It also describes, at an abstract level, the concept of breaking seemingly complex processes into a series of smaller atomic parts, which should aid in the development of simple, yet robust, investigation methods. It should be considered by any person authorising, giving instruction for, managing, or conducting an investigation. It should be applied prior to any investigation, in the context of principles and processes (defined in ISO/IEC 27043:2015) and sound preparation and planning (defined in ISO/IEC 27035-2[1)]) to ensure the suitability of methods to be applied in the investigative processes described in ISO/IEC 27037:2012 and ISO/IEC 27042:2015.

Relationship to other standards

This International Standard is intended to complement other standards and documents which give guidance on the investigation of, and preparation to investigate, information security incidents. It is not a comprehensive guide, but lays down certain fundamental principles which are intended to ensure that tools, techniques, and methods can be selected appropriately and shown to be fit for purpose should the need arise.

This International Standard also intends to inform decision-makers that need to determine the reliability of digital evidence presented to them. It is applicable to organizations needing to protect, analyse, and present potential digital evidence. It is relevant to policy-making bodies that create and evaluate procedures relating to digital evidence, often as part of a larger body of evidence.

This International Standard describes part of a comprehensive investigative process which includes, but is not limited to, the following topic areas:

- incident management, including preparation and planning for investigations;
- handling of digital evidence;
- use of, and issues caused by, redaction;
- intrusion prevention and detection systems, including information which can be obtained from these systems;
- security of storage, including sanitization of storage;
- ensuring that investigative methods are fit for purpose;
- carrying out analysis and interpretation of digital evidence;
- understanding principles and processes of digital evidence investigations;
- security incident event management, including derivation of evidence from systems involved in security incident event management;
- relationship between electronic discovery and other investigative methods, as well as the use of electronic discovery techniques in other investigations;
- governance of investigations, including forensic investigations.

These topic areas are addressed, in part, by the following ISO/IEC standards:

- ISO/IEC 27037:2012

1) To be published.

This International Standard describes the means by which those involved in the early stages of an investigation, including initial response, can ensure that sufficient potential digital evidence is captured to allow the investigation to proceed appropriately.

— ISO/IEC 27038:2014

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. The process of removing information that is not to be disclosed is called “redaction”.

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 non-displayable portions of the document).

ISO/IEC 27038:2014 specifies methods for digital redaction of digital documents. It also specifies requirements for software that can be used for redaction.

— ISO/IEC 27040:2015

This International Standard provides detailed technical guidance on how organizations can define an appropriate level of risk mitigation by employing a well-proven and consistent approach to the planning, design, documentation, and implementation of data storage security. Storage security applies to the protection (security) of information where it is stored and to the security of the information being transferred across the communication links associated with storage. Storage security includes the security of devices and media, the security of management activities related to the devices and media, the security of applications and services, and security relevant to end-users during the lifetime of devices and media and after end of use.

Security mechanisms like encryption and sanitization can affect one's ability to investigate by introducing obfuscation mechanisms. They have to be considered prior to and during the conduct of an investigation. They can also be important in ensuring that storage of evidential material during and after an investigation is adequately prepared and secured.

— ISO/IEC 27042:2015

This International Standard describes how methods and processes to be used during an investigation can be designed and implemented in order to allow correct evaluation of potential digital evidence, interpretation of digital evidence, and effective reporting of findings.

— ISO/IEC 27043:2015

This International Standard defines the key common principles and processes underlying the investigation of incidents and provides a framework model for all stages of investigations.

The following ISO/IEC projects also address, in part, the topic areas identified above and can lead to the publication of relevant standards at some time after the publications of this International Standard.

— ISO/IEC 27035 (all parts)[2)]

This is a three-part standard that provides organizations with a structured and planned approach to the management of security incident management. It is composed of

— ISO/IEC 27035-1[3)]

2) To be published.

3) To be published.

