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Information technology — Governance of digital forensic risk framework

Technologies de l'information — Gouvernance du cadre de risque forensique numérique

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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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.

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*, Subcommittee SC 40, *IT Service Management and IT Governance*.

Introduction

Organizations of any kind face both internal and external factors and influences that can lead to the occurrence of legal actions and placement of demands on the Information Technology (IT) and related Information Systems (IS) to disclose digital evidence. The occurrence of legal action may be the result of an uncertain, unplanned, or unexpected event or it may occur as a planned course of action against employees, competitors, or service suppliers. Whether a risk is significant or not will depend on the level of risk and the organization's risk attitude. Its risk attitude will be reflected in its risk criteria. Because it is almost certain that digital evidence will be discovered and, therefore, be subject to legal disclosure, organizations should plan and develop capability to deal with such legal actions before they occur.

This International Standard is about the prudent strategic preparation for digital investigation of an organization. Forensic readiness assures that an organization has made the appropriate and relevant strategic preparation for accepting potential events of an evidential nature. Actions may occur as the result of inevitable security breaches, fraud, and reputation assertion. In every situation, IT should be strategically deployed to maximise the effectiveness of evidential availability, accessibility, and cost efficiency.

The responsibility of the Governing body is to provide strategic direction in all matters of relevance to the organization. The Governing body is informed by principles of best practice that provide general guidance on matters of certainty and compliance. These principles may come from legal mandates, standards, or social and cultural imperatives. In this International Standard, the principles come from ISO/IEC 38500 for the guidance of best practice for the governance of IT (Clause 4).

Principles require implementation. The tasks of governance are to evaluate proposals and plans, to monitor performance and conformance, and to direct strategy and policies. The stakeholders of an organization may provide the mandate for governance and the Governing body has the ultimate ownership of risk. A framework for the governance of digital forensic risk is established by the owners of risk taking appropriate actions to assure the strategic direction of the organization. Hence, the strategic objective is to implement the principles and to assure adequate preparation for digital investigation (Clause 5).

The framework requires strategic processes to deliver direction to executives and top managers. The strategic processes are selected to assure adequate scope and are principally archival, discovery, disclosure, capability, and risk criteria compliance (Clause 6).

The goals derived from the principles are measureable through Key Goal Indicators (KGIs), the strategic objectives derived from the strategies are measurable through the Key Performance Indicators (KPIs), and the variation between the KGIs and the KPIs measures is an indication of the organization's business performance (KBIs) (Clause 7).

This International Standard should be used in conjunction with the vocabulary contained in ISO Guide 73:2009; ISO/IEC 35802, *Information technology — Governance of IT framework and model*; and ISO/IEC 38500, *Information technology — Governance of IT for the organization*.

Information technology — Governance of digital forensic risk framework

1 Scope

This International Standard provides a framework for Governing bodies of organizations (including owners, board members, directors, partners, senior executives, or similar) on the best way to prepare an organization for digital investigations before they occur. This International Standard applies to the development of strategic processes (and decisions) relating to the retention, availability, access, and cost effectiveness of digital evidence disclosure. This International Standard is applicable to all types and sizes of organizations.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 38500, *Information technology — Governance of IT for the organization*

ISO Guide 73:2009, *Risk management — Vocabulary*