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Information technology — Electronic discovery —

Part 2:
Guidance for governance and management of electronic discovery

Technologies de l'information — Découverte électronique —

Partie 2: Lignes directrices pour la gouvernance et le management de l'investigation informatique

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Foreword

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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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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso .org/iso/foreword.html.

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

A list of all parts in the ISO/IEC 27050 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Engagement in electronic discovery and processes can expose organizations and the stakeholders within and outside those organizations to collective and individual risks, including legal, financial and ethical. This document aims to provide guidance for decision makers and those holding responsible roles to ensure that causes of failure are properly managed and, where possible, minimized while still complying with policy and conformance requirements to enable effective and appropriate electronic discovery and processes.

This document is to be read in relation to ISO/IEC 27050-1 and ISO/IEC 27050-3. Common responsibilities of a governing body is to provide strategic direction in all matters of relevance to electronic discovery and to take ownership of the risks related to electronic discovery. The responsibility of management is to develop and implement the policies, plans and strategies for electronic discovery set by the governing body. The inherent causes of failure and environmental issues associated with electronic discovery governance and management impact the viability of a coherent system that delivers optimal business value. Consequently, the structures, processes and communication requirements of electronic discovery needs to be compliant and open to review.

The measure of success for the investment in the use of electronic discovery services is the benefit that it brings to the organization making the investment. Proper foresight, oversight and direction allow the full scope of the effort required to derive the expected benefits and an appropriate framework for governance, risk and value to be determined. This document addresses the concerns of electronic discovery governance by identifying the risk and the risk owners of potential points of failure in electronic discovery processes.

This document is to provide guidance for the governance and management of electronic discovery.

Information technology — Electronic discovery —

Part 2:
Guidance for governance and management of electronic discovery

1   Scope

This document provides guidance for technical and non-technical personnel at senior management levels within an organization, including those with responsibility for compliance with statuary and regulatory requirements, and industry standards.

It describes how such personnel can identify and take ownership of risks related to electronic discovery, set policy and achieve compliance with corresponding external and internal requirements. It also suggests how to produce such policies in a form which can inform process control. Furthermore, it provides guidance on how to implement and control electronic discovery in accordance with the policies.

2   Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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/IEC 27000, *Information technology — Security techniques — Information security management systems — Overview and vocabulary*

ISO/IEC 27050-1, *Information technology — Security techniques — Electronic discovery — Part 1: Overview and concepts*

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

3   Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 27000, ISO/IEC 27050-1, ISO/IEC 38500 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4   Symbols and abbreviated terms

ICT   Information and Communication Technology

OCR   Optical Character Recognition

ESI   Electronically Stored Information

5 Electronic discovery background

Electronic discovery is an element of traditional discovery and it is a process that typically involves identifying, preserving, collecting, processing, reviewing, analysing, producing, establishing provenience, and maintaining the chain of custody, of ESI that can be potentially relevant to a particular matter. The guidance provided in this document are in accordance with the electronic discovery concepts described in ISO/IEC 27050-1:2016 Clause 3, 6.4 and 6.5.

ISO/IEC 27050-1 differentiates between generic actions such as "identifying" from the specific electronic discovery process elements by preceding the names with "ESI" (e.g., ESI identification). Likewise, this document follows this approach. Figure 1, repeated from ISO/IEC 27050-1, shows all of the electronic discovery process elements and the interrelationships between them (see ISO/IEC 27050-1:2016, 8.1 for a full description).
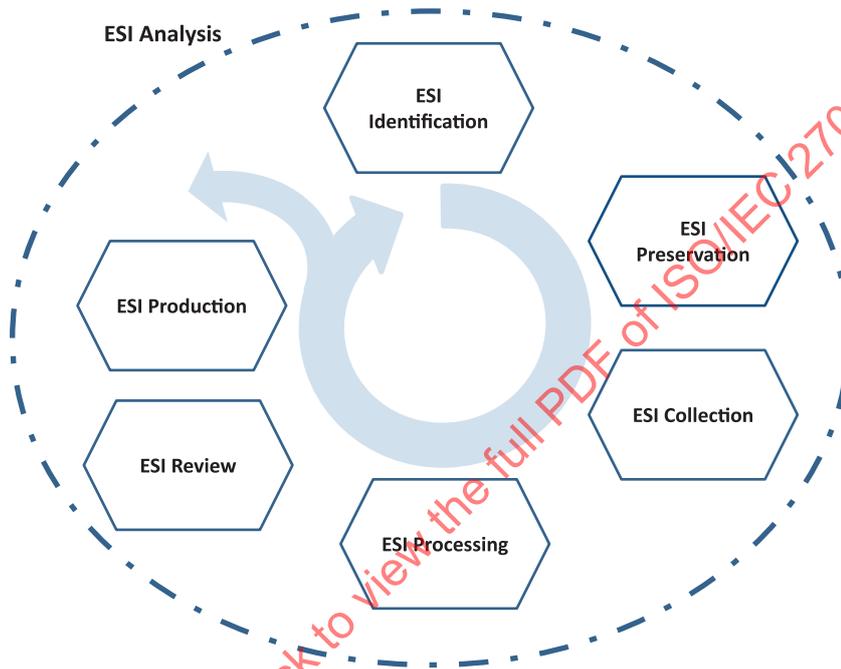

Figure 1 — Electronic discovery process elements

Risks associated with electronic discovery processes require attention from those responsible for governance and management to minimize systemic failures, unpredictable failures, and to maximize the process effects. The goal of electronic discovery is the same as with hardcopy document discovery that is to find and to produce information potentially relevant in a matter. The nature of electronic information adds differing layers of complexity and opportunity, since ESI carries with it such elements as metadata and requisite data processing and management functions that do not exist with paper. In addition, the collection and processing of ESI for discovery presents challenges that can have import either:

— to the viability or accuracy of the ESI produced to the opposing side (e.g., data corruption, password protection, encryption, indexing issues, inadequate keyword search, poor OCR); or

— to the ability to maintain chain of custody.

The escalating volumes of ESI typically created, maintained and collected present challenges for consistency and accuracy in review. The role of those responsible for governance and management is to assure electronic processes are controlled according to the risk criteria and conform to the distributed appetite for risk. Figure 2 describes the responsibilities in relation to electronic discovery roles and the harmonisation of related risks for optimal benefit delivery.

This document addresses the challenges of control by:

— promoting common understanding of various concepts and terminology for governance and management;

— articulating objectives and structures for electronic discovery governance;

— encouraging practical and cost-effective establishment of electronic discovery processes;

— providing guidance and best practices to those responsible for governance and management of electronic discovery strategies and policy;

— identifying tasks and strategy contexts for those responsible for electronic discovery governance and management, that they may set policy and design controls;

— promoting the proactive use of metrics and risk evaluation practices for minimizing failure in electronic discovery processes;

— suggesting ways to avoid adverse effects on reputational factors, organizational activities and staff morale;

— providing guidance for compliance, conformance and effectiveness review.

The overriding goal is to help organizations establish good governance for their electronic discovery processes by setting targeted policies and measured controls that are responsive to scale and size of an electronic discovery project. While this document has been written with larger electronic discovery projects in mind, and therefore covers aspects encountered in the majority of matters, it is not necessarily the case that all steps will be required or proportionate to every matter. For example, in small matters, it can well be that a single person manages and completes every aspect of the project, whereas larger matters can warrant the use of separate individuals, third parties or even teams for each element of the electronic discovery project.
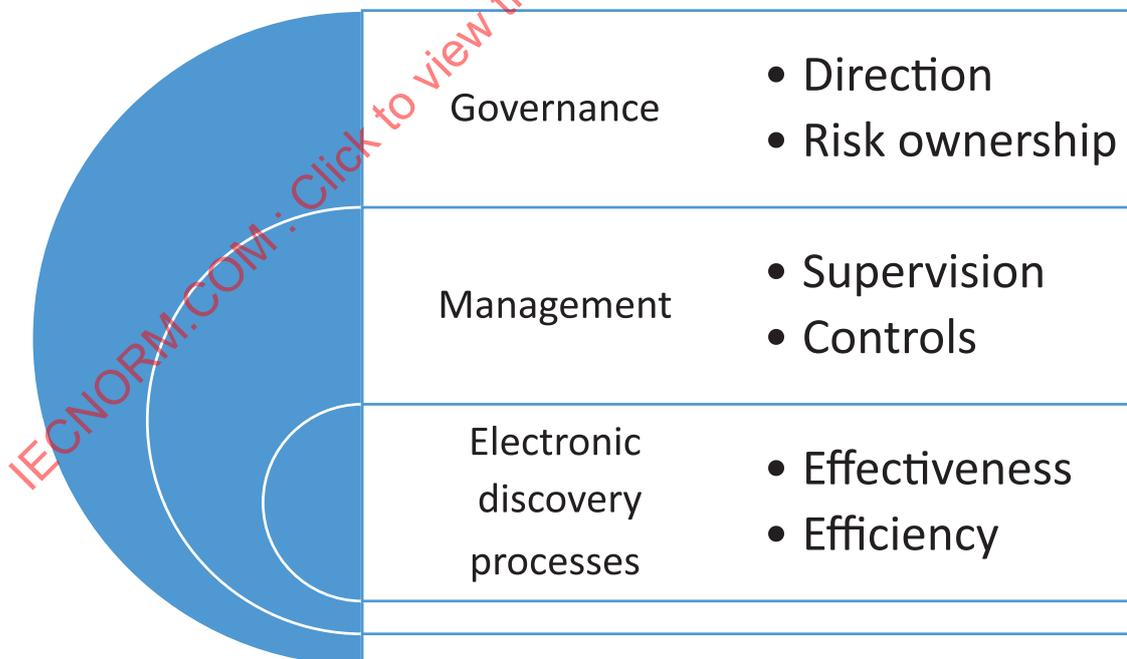

Figure 2 — Electronic discovery governance system harmonization

6 Governance of electronic discovery

6.1 Context and principles

Without sufficient governance as described in this document, electronic discovery is reactive to events and can appear ad hoc. Governance provides the discipline to manage and monitor electronic discovery activities in a proactive manner. A good governance program is likely to put an organization in a better position to deal with electronic discovery issues, and to deliver policy driven processes. Governance of electronic discovery should be considered in the context of information technology governance. All parties involved in the production of policy, planning and implementation should be aware of the causes of failure associated with the electronic discovery processes, and their responsibilities and potential mitigation actions.

At a minimum, those responsible for governance (normally the governing body or senior management of an organization) should seek to create a culture in the organization which considers ESI as a valuable corporate asset. Consideration should be given to making electronic discovery risk a recurring governing body topic. A member of the governing body should have final responsibility for the discovery process adopted by the organization and be responsible for ensuring that legal, ethical and other requirements are complied with. ISO/IEC 38500 principles underpin the governance context, and ISO/IEC 30121 provides the framework for risk governance. ISO/IEC 31000 underpins management risk. These documents structure the context for electronic discovery governance and policy management.

ISO/IEC 38500 six principles of good governance require the policies for electronic discovery to articulate the following: responsibility for risk, the development of strategy, for asset acquisition, retention and retirement, conformance, performance, and for the associated human factors. Management should have responsibility for the development and evaluation of the related policies and demonstrate leadership and commitment to adequate risk management that mitigates unacceptable causes of failure. The proper balance of the demand and supply of electronic discovery services is a requirement of effective governance and management, which should be driven and communicated from the top of the organization.

6.2 Mandate and establishment

The governing body should authorize management to develop policies and strategies (see Clause 7) that assure co-operation and interoperability between the enterprise functions, divisions and ICT and Information Systems services, including, if appropriate any third party for the seamless delivery of electronic discovery services. Management support is essential for the successful establishment, implementation, maintenance and continual improvement of the electronic discovery processes.

6.3 Evaluate

The governing body should examine and determine the requirements for effective and efficient electronic discovery capabilities, policies and the risk appetite for the organization. This includes strategies, proposals, plans and supply arrangements (whether internal, external or both). Regular reports to the governing body are required so that performance and compliance of the electronic discovery processes can be evaluated in accordance with the goals for current and future use, and the current and future use circumstances.

6.4 Direct

The governing body should distribute decision-making rights, assign responsibility for, and direct preparation and implementation of strategies, plans and policies. The governing body is to evaluate the performance. It should also encourage a culture of good governance of electronic discovery in the organization by requiring senior managers to implement approved policies, comply with strategic directions and conform to the risk criteria.

6.5 Monitor

The governing body should monitor, through appropriate measurement systems, the accuracy, performance and conformance of electronic discovery activities and processes. It should reassure itself that performance is in accordance with strategic plans and its levels of risk are within the organization's risk criteria. Responsibility for the effective, efficient and acceptable use of electronic discovery capabilities by an organization is owned by the governing body and is retained when delegated.

7 Management of electronic discovery

7.1 Context and controls

Senior management is responsible for defining electronic discovery strategies to implement control processes to be efficient and effective. The design and the measurement of control systems for optimal operational efficiency and the development of process capabilities for electronic discovery are managerial accountabilities. ISO/IEC 30121 provides the context for the following processes and strategies. Subclauses 7.2 to 7.7 describe how personnel can identify and take ownership of strategic risks related to electronic discovery and set policy to inform process control.

7.2 Archival policies

Senior management should develop a comprehensive archive and retention policy of information properties and processes. This should include business continuity management plans and legal holds. The policy is to specify admission rules, structure, scope, completeness criteria, efficient storage practices, security provisions, chain of custody and mechanisms to maintain the integrity of the data. Consideration should be given to storage scalability including cloud capabilities, retirement policies and the location of storage, access and readiness for access. The purpose of information retention is to service availability of data for business, legal and other consumption requirements; in a timely and trusted fashion.

7.3 Discovery policies

Senior management should develop efficient and effective electronic discovery capabilities, discovery policies and supporting business processes. The implementation requires acquisition of relevant software and professional skills to execute electronic discovery processes. Standardization of discovery mechanisms for the consistent, timely and relevant retrieval of ESI requires planning, training and resource retention. Accurate and timely access to information is critical for decision-making and the presentation of ESI.

7.4 Disclosure policies

Senior management should develop criteria for the securing and the disclosing of information. Risk criteria are to be determined and the level of risk assessed to judge if the level is acceptable or whether additional mitigation actions are required. Policies should be produced that control any information that is disclosed. Disclosed information should be logged, processes recorded and preserved for audit and future access as required.

7.5 Capability policies

Senior management should develop policies, plans and retain resources to assure the electronic discovery capability is sufficient to deliver the required services, and of the required quantity and quality. Controls for the alignment of the business processes and the electronic discovery processes require adoption into local and professional codes of conduct for optimal capability. Policies should be produced to assure capable delivery of the electronic process elements, the metrics and the audit trails.

7.6 Risk compliance policies

Management should make decisions on whether to own, transfer or treat strategic risk based on the application of its risk criteria for electronic discovery. Policies should be produced that assure the level of failure remains within the organization's risk criteria and that each of the electronic discovery process elements has been evaluated for potential failure within the organization and local environment contexts. Preventive or detective and corrective controls should be designed to assure conformance with all compliance requirements.

7.7 Monitoring and reporting policies

The risk owners of an organization should measure the critical attributes of electronic discovery in order to evaluate plans, to monitor performance and conformance, and to direct strategies and policies. Metrics are to inform the implementation and design of the control framework for electronic discovery. Senior managers should develop metrics that indicate the attributes of lead measures, lag measures, and real-time measures. These metrics apply to each of the electronic discovery process elements, management controls and governance risk ownership attributes.

8 Risks and environmental factors

8.1 Overview

In the processes for governance of electronic discovery, it is important to be aware of, and mitigate, certain causes of failure that can arise which can have potential detrimental effects on an electronic discovery project. The retention and management policies of an organization (which can include business continuity management and legal holds) should mitigate for failure. A goal for electronic discovery governance is to avoid negative consequences including those described below:

— breaches of privacy caused by inappropriate methods or excessive or accidental disclosure;

— legal and financial penalties for non-compliance with law;

— original damage to ESI caused by inappropriate methods, including the damage to ESI's integrity, authenticity, reliability or usability; and any other potential causes of spoliation;

— damage to staff morale leading to negative impacts on the organization;

— damage to organizational reputation caused by inappropriate disclosure to any third parties;

— ESI acquisition and collection requirements that take excessive processing power or resource consumption for collections;

— damage to any current or future litigation or other action or the organization caused by inappropriate disclosure of for example, IP, privileged or market sensitive information;

— damage or non-compliant management of the chain of custody, which can render the ESI inadmissible in court.

Determination of the risks and opportunities for the electronic discovery activities and processes requires an evaluation of the internal and external context (that includes business, legal and jurisdictional issues as well as ICT infrastructure). When planning the electronic discovery processes (ESI identification; ESI preservation; ESI collection; ESI processing; ESI review; ESI analysis; and, ESI production), the risk assessment is to assure the achievement of the intended outcomes, prevent or reduce undesirable effects and deliver continuous improvement.

8.2 Privacy

Inappropriate disclosure of information can result in breaches of privacy (see ISO/IEC 27050-1). Prior to, and during, the electronic discovery process, these causes of failure should be identified and