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Information technology — Governance of data —

Part 1: Application of ISO/IEC 38500 to the governance of data

Technologies de l'information — Gouvernance des données —

Partie 1: Application de l'ISO/IEC 38500 à la gouvernance des données

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Foreword

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This document was prepared by Joint Technical Committee ISO/IEC/JTC 1, *Information technology*, Subcommittee SC 40, *IT service management and IT governance*.

This second edition cancels and replaces the first edition (ISO/IEC 38505-1:2017), which has been technically revised.

The main changes are as follows:

— alignment with ISO/IEC 38500:2024, which is itself aligned to ISO 37000.

A list of all parts in the ISO/IEC 38505 series can be found on the ISO and IEC websites.

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 and www.iec.ch/national-committees.

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Introduction

The objective of this document is to provide principles, definitions and a model for governing bodies to use when evaluating, directing and monitoring the handling and use of data in their organizations.

This document is high-level, principles-based and advisory. In addition to providing broad guidance on the role of a governing body, it encourages organizations to use appropriate standards to underpin their governance of data.

All organizations use data; and the major proportion of the data is stored electronically across IT systems. With the advent of cloud computing, the realization of the potential of the "internet of things" and the increasing use of "big data" analytics and artificial intelligence (AI), data have become easier to generate, gather, store and mine for useful information. This flood of data brings with it an urgent requirement and responsibility for governing bodies to ensure that valuable opportunities are leveraged, and sensitive data are protected and secured.

Governance of data plays a critical role in ensuring the responsible, innovative, sustainable, and ethical use of data.

Governance of data is an ongoing practice, adapting to the evolving data landscape.

This document has been prepared to provide guidance to the members of governing bodies to apply a principles-based approach to the governance of data to increase the value of the data while preventing the risks associated with the data. ISO/IEC 38500 provides principles, model, and framework for the governing bodies of organizations to guide their current use and to plan for their future use of Information technology (IT), and this document concerns the application of ISO/IEC 38500. While this document describes the governance of data and its use within an organization, guidance on the implementation arrangement for the effective governance of IT in general is found in ISO/IEC/TS 38501. The constructs in ISO/IEC/TS 38501 can help to identify internal and external factors relating to the governance of IT and help to define beneficial outcomes and identify evidence of success.

The use of AI and the growth of data have created extensive opportunities for the analysis and use of data in decision making. Because legal regulations sometimes lag behind or are not developed, it is up to an organization to ensure the ethical use of data.

As with ISO/IEC 38500, this document is addressed primarily to the governing body of an organization and applies equally regardless of the size of the organization or its industry or sector. The principles of this document can be relevant for the governing bodies of data exchange networks, platforms, spaces and for other inter-organizational data governance contexts. However, the inter-organizational aspects of data governance are outside the scope of this document.

Governance is distinct from management and concerns evaluating, directing and monitoring the use of data, rather than the mechanics of storing, retrieving or managing the data. This document outlines an understanding of various data management and techniques to enunciate the strategies and policies that can be directed by the governing body.

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Information technology — Governance of data —

Part 1:
Application of ISO/IEC 38500 to the governance of data

1 Scope

This document provides principles for governing bodies of organizations (which can comprise owners, directors, partners, executive managers, or similar) on the effective, efficient and acceptable use of data within their organizations by:

— applying the governance principles and model of ISO/IEC 38500 to the governance of data;

— assuring stakeholders that, if the principles and practices proposed by this document are followed, they can have confidence in the organization's governance of data;

— informing and guiding governing bodies in the use and protection of data in their organizations.

This document can also provide guidance to a wider community, including:

— executive managers;

— external businesses or technical specialists, such as legal or accounting specialists, retail or industrial associations, or professional bodies;

— internal and external service providers (including consultants);

— auditors.

This document applies to the governance of the current and future use of data that is created, collected, stored, secured, protected, or controlled by IT systems, and impacts the management processes and decisions relating to data.

This document defines the governance of data as a subset or domain of the governance of IT, which itself is a subset or domain of organizational, or in the case of a corporation, corporate governance.

This document is applicable to all organizations, including public and private companies, government entities, and not-for-profit organizations. This document is applicable to organizations of all sizes, regardless of the extent of their dependence on data.

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

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