International Standard

ISO/IEC 24760-2

Second edition
2025-09

Information security, cybersecurity and privacy protection — A framework for identity management —

Part 2: Reference architecture and requirements

Sécurité de l'information, cybersécurité et protection de la vie privée — Cadre pour la gestion de l'identité —

Partie 2: Architecture de référence et exigences

Reference number
ISO/IEC 24760-2:2025(en)

Horizontal document

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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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 or www.iec.ch/members_experts/refdocs).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *Information security, cybersecurity and privacy protection*.

This second edition cancels and replaces the first edition (ISO/IEC 24760-2:2015), which has been technically revised.

The main changes are as follows:

— in Clause 3, the definitions of terms from ISO/IEC 24760-1 were removed;

— to address the emerging concept of mobile identity, the term “principal’s private IMS” (PPI) was added in Clauses 3, 4, and described in 5.4.2, 5.4.3 and 5.4.6;

— some of the content of Clause 5 was moved to Clauses 6 and 7;

— former Annex A has been deleted and the existing annexes have been relabelled.

A list of all parts in the ISO/IEC 24760 series can be found on the ISO and IEC websites.

This document has been given the status of a horizontal document in accordance with the ISO/IEC Directives, Part 1.

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.

Introduction

Data processing systems commonly gather a range of information on its users, which can include people, pieces of equipment, or pieces of software connected to the equipment. Based on the information gathered on user identity, these data processing systems make decisions that can impact how users access to IT resources.

To address the need to efficiently and effectively implement systems that make identity-based decisions, this document specifies a framework for the issuance, administration and use of data. This framework serves to characterize individuals, organizations, or information technology components, which operate on behalf of individuals or organizations.

For many organizations, the proper management of identity information is crucial for maintaining the security of the organizational processes. For individuals, correct identity management is important for protecting privacy.

The ISO/IEC 24760 series specifies fundamental concepts and operational structures for identity management and provides a framework on which information systems can meet business, contractual, regulatory, and legal obligations.

This document defines a reference architecture for identity management including interrelationships. These architectural elements are described in respect to identity management deployments scenarios and their models. This document also specifies requirements for the design and implementation of an identity management system so that it can meet the objectives of stakeholders involved in the deployment and operation of identity management.

This document is intended to provide a foundation for the implementation of other international standards related to identity information processing such as ISO/IEC 29100, ISO/IEC 29101, ISO/IEC 29115, and ISO/IEC 29146.

This document is not a management system standard (MSS).

Information security, cybersecurity and privacy protection — A framework for identity management —

Part 2: Reference architecture and requirements

1 Scope

This document:

— provides guidelines for the implementation of systems for the management of identity information;

— specifies requirements for the implementation and operation of a framework for identity management;

— is applicable to any information system where information relating to identity is processed or stored;

— is considered to be a horizontal document for the following reasons:

  — it applies concepts such as distinguishing the term “identity” from the term “identifier” on the implementation of systems for the management of identity information and on the requirements for the implementation and operation of a framework for identity management,

  — it provides an important contribution to assess identity management systems with regard to their privacy-friendliness and their ability to assure the relevant attributes of an identity, and consequently it provides a foundation and a common understanding for any other standard addressing identity, identity information, and identity management.

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 24760-1, *Information security, cybersecurity and privacy protection — A framework for identity management — Part 1: Core concepts and terminology*

ISO/IEC 29115, *Information technology — Security techniques — Entity authentication assurance framework*