



# SLOVENSKI STANDARD SIST EN ISO 21860:2024

01-junij-2024

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## Zdravstvena informatika - Portfelj referenčnih standardov (RSP) - Klinično slikanje (ISO 21860:2020)

Health Informatics - Reference standards portfolio (RSP) - Clinical imaging (ISO  
21860:2020)

Medizinische Informatik - Portfolio von Referenzstandards (RPS) - Klinische Bildgebung  
(ISO 21860:2020)

Informatique de santé - Normes de référence du portefeuille (REEECI) - Imagerie  
clinique (ISO 21860:2020)

**Ta slovenski standard je istoveten z: EN ISO 21860:2024**

[SIST EN ISO 21860:2024](https://standards.slovenski-standard.si/standards/sist/2024/07/01/EN-ISO-21860-2024)

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### **ICS:**

35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology
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EUROPEAN STANDARD

EN ISO 21860

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2024

ICS 35.240.80

English Version

## Health Informatics - Reference standards portfolio (RSP) - Clinical imaging (ISO 21860:2020)

Informatique de santé - Portefeuille de normes de  
référence - Imagerie clinique (ISO 21860:2020)

Medizinische Informatik - Portfolio von  
Referenzstandards (RPS) - Klinische Bildgebung (ISO  
21860:2020)

This European Standard was approved by CEN on 12 February 2024.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

The text of ISO 21860:2020 has been prepared by Technical Committee ISO/TC 215 "Health informatics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 21860:2024 by Technical Committee CEN/TC 251 "Health informatics" the secretariat of which is held by NEN.

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 August 2024, and conflicting national standards shall be withdrawn at the latest by August 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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### Endorsement notice

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# INTERNATIONAL STANDARD

**ISO**  
**21860**

First edition  
2020-11

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## Health Informatics — Reference standards portfolio (RSP) — Clinical imaging

*Informatique de santé — Normes de référence du portefeuille  
(REEECI) — Imagerie clinique*

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## ISO 21860:2020(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 ISO documents 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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

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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee, ISO/TC 215, *Health informatics*.

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](http://www.iso.org/members.html).

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## Introduction

Modern healthcare is supported by medical devices and information systems that capture, manage, exchange, process and present clinical, operational, research and public health data. This occurs at scales from individual clinics and hospital departments, up to networks of hospitals and regional or national healthcare systems. Adopting standards and using them consistently would make it easier to install, operate and, over time, update and replace these devices and information systems.

This document presents a portfolio of standards that have been selected as being mature, fit for purpose and most appropriate to address use cases related to the clinical imaging domain. Clinical imaging is considered throughout the enterprise.

It should be noted, however, that achieving full interoperability within a given environment or set of systems is a large endeavor of which the selection of underlying standards is an important component, but just one component. Additional guidance can be found in the Process clause of the TR on IHE Global Standards Adoption [4].

This document was developed based on concepts and methodology described in the Healthcare Informatics – Reference Standards Portfolio (RSP): Development framework. RSPs are an evolution of past work, such as that done by the Board of Directors of the American Medical Informatics Association [2] and the Joint Initiative Council (JIC) work on the Patient Summary Standards Set [28].

This work reflects the experience and learning of the international community in developing interoperability standards in the clinical imaging domain, including representatives of:

- DICOM®<sup>1)</sup> (Digital Imaging and Communication in Medicine)
- IHE Radiology (Integrating the Healthcare Enterprise)
- ISO/TC215, Health Informatics.

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1) DICOM® is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO.



# Health Informatics — Reference standards portfolio (RSP) — Clinical imaging

## 1 Scope

This document establishes the Reference Standards Portfolio (RSP) for the clinical imaging domain (as defined in [Clause 4](#)).

An RSP lists the principle health information technology (HIT) standards that form the basis of implementing and deploying interoperable applications in the target domain.

An RSP includes a description of the domain, a normative list of standards, and an informative framework for mapping the standards to example deployment use cases.

The lists do not include standards that are specifically national in scope.

The primary target audience for this document is policy makers (governmental or organizational), regulators, project planners and HIT managers. This document will also be of interest to other stakeholders such as equipment and HIT vendors, clinical and health information management (HIM) professionals and standards developers.

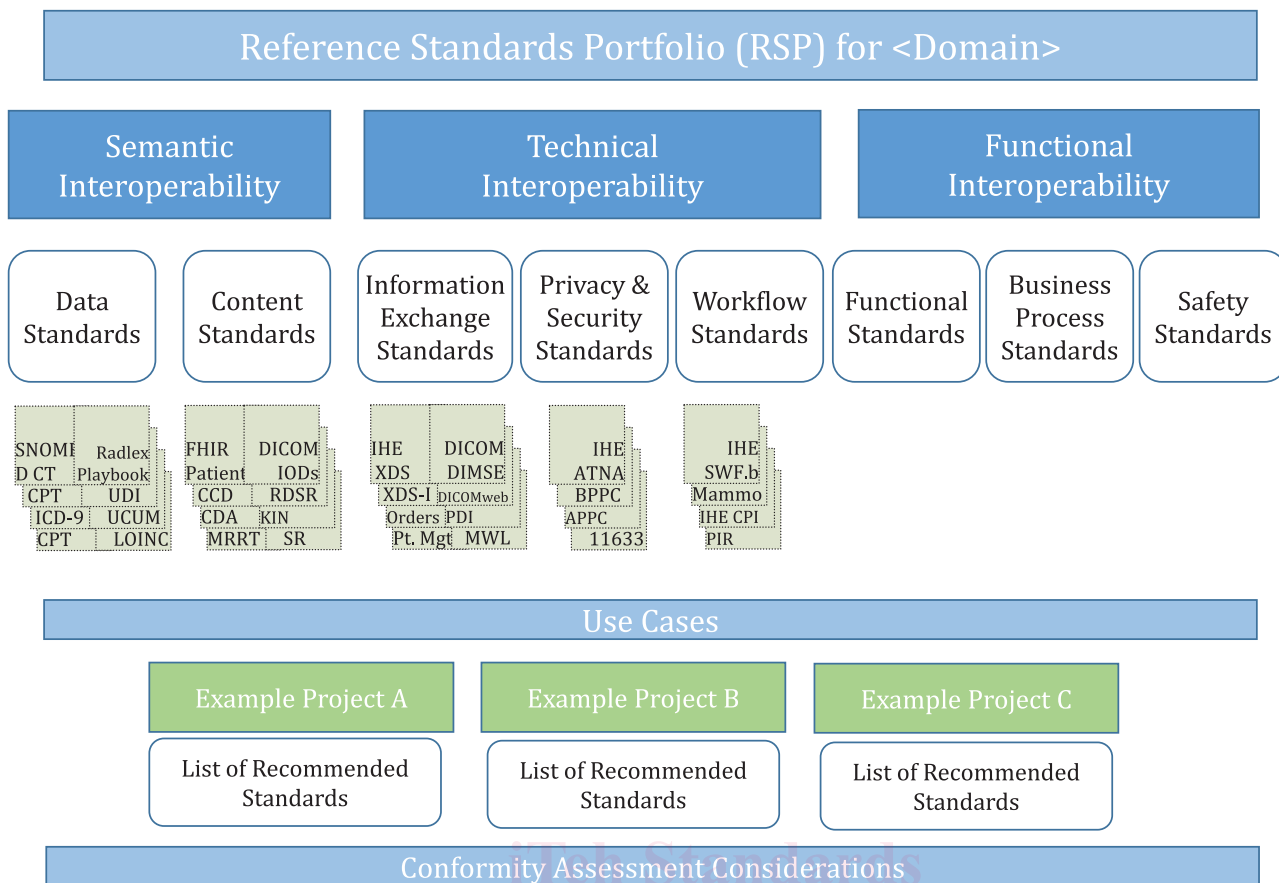
The intended usage of this document is to inform decisions about selecting the standards that will form the basis of integration projects in geographic regions or healthcare organizations. For example:

- What standards to use for capturing/encoding/exchanging certain types of information
- What standards to use for interfaces between the devices and information systems that support information capture, management, exchange, processing and use
- What standards to use for specific use cases/deployment scenarios

The selected standards, and/or corresponding RSP clauses, might be useful when drafting project specifications.

[Figure 1](#) shows the conceptual organization of this document. The top part represents individual HIT standards grouped under semantic, technical and functional interoperability categories. The bottom part shows use cases for example implementation projects with a selected list of standards.

## ISO 21860:2020(E)



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**Figure 1 — RSP Organization**

## Document Preview

## 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.

DICOM PS3, Digital Imaging and Communication in Medicine, Parts 1-22, National Electrical Manufacturers Association

HL7 V2.3.1, HL7 Messaging Standard Version 2.3.1 - An Application Protocol for Electronic Data Exchange in Healthcare Environments, HL7 International

HL7 V2.5.1, HL7 Messaging Standard Version 2.5.1 - An Application Protocol for Electronic Data Exchange in Healthcare Environments, HL7 International

HL7 CDA R2, HL7 Version 3 Standard: Clinical Document Architecture Framework, Release 2, HL7 International

IHE Cardiology Technical Framework, Volumes 1-2 and associated supplements, Integrating the Healthcare Enterprise

IHE IT Infrastructure Technical Framework, Volumes 1-4 and associated supplements, Integrating the Healthcare Enterprise

IHE Radiology Technical Framework, Volumes 1-4 and associated supplements, Integrating the Healthcare Enterprise

ICD-9, International Classification of Diseases revision 9, World Health Organization