



SLOVENSKI STANDARD

SIST EN 12052:2005

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SIST ENV 12052:2003

SIST ENV 12623:2003

SIST ENV 12922-1:2003

SIST ENV 13939:2003

Zdravstvena informatika – Digitalni prikaz – Upravljanje s komunikacijo, procesi in podatki

Health informatics - Digital imaging - Communication, workflow and data management

(standards.iteh.ai)

Medizinische Informatik - Digitale Bildverarbeitung - Kommunikation, Workflow und Datenmanagement

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Informatique de santé - Imagerie numérique - Communication, workflow et gestion de données

Ta slovenski standard je istoveten z: EN 12052:2004

ICS:

35.240.80

Uporabniške rešitve IT v
zdravstveni tehniki

IT applications in health care
technology

SIST EN 12052:2005

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EUROPEAN STANDARD

EN 12052

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2004

ICS 35.240.80

Supersedes: ENV 12052:1997, ENV 12623:1997, ENV 12922-1:1997, ENV 13939:2001

English version

Health informatics - Digital imaging - Communication, workflow and data management

Informatique de santé - Imagerie numérique -
Communication, workflow et gestion de données

This European Standard was approved by CEN on 2 January 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 12052:2004) has been prepared by Technical Committee CEN/TC 251 "Health Informatics", the secretariat of which is held by SIS.

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 February 2005, and conflicting national standards shall be withdrawn at the latest by February 2005.

This document supersedes:

ENV 12052:1997	<i>Medical Informatics - Medical Imaging Communication</i>
ENV 12623:1997	<i>Medical Informatics - Media Interchange in Medical Imaging Communications</i>
ENV 12922-1:1997	<i>Medical Image Management - Part 1: Storage Commitment Service Class</i>
ENV 13939:2001	<i>Health informatics - Medical data interchange: HIS/RIS-PACS and HIS/RIS - Modality interface</i>

by referencing the widely-used publicly available specification Digital Imaging and Communications in Medicine (DICOM) Standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

Within health informatics, this document addresses the exchange of digital images and related information between both medical imaging equipment and systems concerned with the management of that information.

This document facilitates interoperability of systems claiming conformance. In particular, it:

-Addresses the semantics of commands and associated data. For devices to interact, there must be standards on how devices are expected to behave in response to commands and associated data, not just the information which is to be moved between devices;

-Is explicit in defining the conformance requirements of implementations of the standard. In particular, a conformance statement has to specify enough information to determine the functions for which interoperability can be expected with another system claiming conformance.

-Facilitates operation in a networked environment and in the area of media interchange

-Is structured to accommodate the introduction of new services, thus facilitating support for future medical imaging applications.

Even though this document has the potential to facilitate implementations of Picture Archiving and Communication Systems (PACS) solutions and integrated digital imaging departments, use of this document alone does not guarantee that all the goals of such solutions will be met. This document facilitates interoperability of systems claiming conformance in a multi-vendor environment, but does not, by itself, guarantee interoperability.

[SIST EN 12052:2005](http://standards.iteh.ai/standards/sist-en-12052-2005)

This document has been developed with an emphasis on diagnostic medical imaging as practised in radiology, cardiology and other imaging disciplines.

1 Scope

This document pertains to the field of health informatics. Within that field it addresses the exchange of digital images, and information related to the production and management of those images, between both medical imaging equipment and systems concerned with the management and communication of that information.

This document is intended to facilitate interoperability of medical imaging equipment by specifying:

- A set of protocols to be followed by devices claiming conformance to the standard.
- The syntax and semantics of commands and associated information data models that ensure effective communication between implementations of the standard.
- Information that must be supplied with an implementation for which conformance to the standard is claimed.

This document does not specify:

- The implementation details of any features of the standard on a device for which conformance is claimed.
- The overall set of features and functions to be expected from a system implemented by integrating a group of devices each claiming conformance to the standard.
- A testing/validation procedure to assess an implementation's conformance to the standard.

Within health informatics, both medical imaging equipment and systems concerned with the management and communication of medical image data may require to interoperate with other systems in other areas of health informatics; these other areas and systems are, however, outside the scope of this document.

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EN 12052:2004 (E)**2 Normative references**

The following referenced documents are indispensable for the application 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 Standard, PS 3-2003	<i>Digital Imaging and Communications in Medicine (DICOM), consisting of the following Parts</i>
DICOM PS 3.1-2003	<i>Introduction and Overview</i>
DICOM PS 3.2-2003	<i>Conformance</i>
DICOM PS 3.3-2003	<i>Information Object Definitions</i>
DICOM PS 3.4-2003	<i>Service Class Specifications</i>
DICOM PS 3.5-2003	<i>Data Structures and Encoding</i>
DICOM PS 3.6-2003	<i>Data Dictionary</i>
DICOM PS 3.7-2003	<i>Message Exchange</i>
DICOM PS 3.8-2003	<i>Network Communication Support for Message Exchange</i>
DICOM PS 3.10-2003	<i>Media Storage and File Format for Data Interchange</i>
DICOM PS 3.11-2003	<i>Media Storage Application Profiles</i>
DICOM PS 3.12-2003	<i>Media Formats and Physical Media for Media Interchange</i>
DICOM PS 3.14-2003	<i>Grayscale Standard Display Function</i>
DICOM PS 3.15-2003	<i>Security Profiles</i>
DICOM PS 3.16-2003	<i>Content Mapping Resource</i>

Digital Imaging and Communications in Medicine (DICOM) Standard, PS 3-2003 is freely available in electronic form from the DICOM web site at: <http://medical.nema.org/dicom>.

3 Terms and definitions

For the purposes of this document, no additional definitions to those provided in Digital Imaging and Communications in Medicine (DICOM) Standard, PS 3-2003 apply.

4 Symbols and abbreviations

For the purposes of this document, no additional definitions to those provided in Digital Imaging and Communications in Medicine (DICOM) Standard, PS 3-2003 apply.