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**HEALTH INFORMATICS - SERVICE
ARCHITECTURE - PART 3: COMPUTATIONAL
VIEWPOINT**

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3: Point de vue Traitement

Medizinische Informatik - Servicearchitektur - Teil 3:
Verarbeitungssicht

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Foreword

This document (EN 12967-3:2007) has been prepared 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of an identical text or by endorsement, at the latest by April 2008, and conflicting national standards shall be withdrawn at the latest by April 2008.

This document, together with EN 12967-1 and EN 12967-2, supersedes ENV 12967-1:1998.

This document represents part two of a three-part European standard, which is a major revision of ENV 12967-1, produced under a mandate given to CEN by the European Commission and the European Free Trade Association.

This multi-part standard under the general heading: Health informatics – Service architecture consists of the following parts:

Part 1: Enterprise viewpoint

Part 2: Information viewpoint

Part 3: Computational viewpoint

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

Introduction

This document represents the third part of EN 12967, a multi-part standard that provides guidance for the description, planning and development of new systems as well as for the integration of existing information systems, both within one enterprise and across different healthcare organisations through an architecture integrating the common data and business logic into a specific architectural layer (i.e. the middleware), distinct from individual applications and accessible throughout the whole information system through services, as shown in Figure 1.

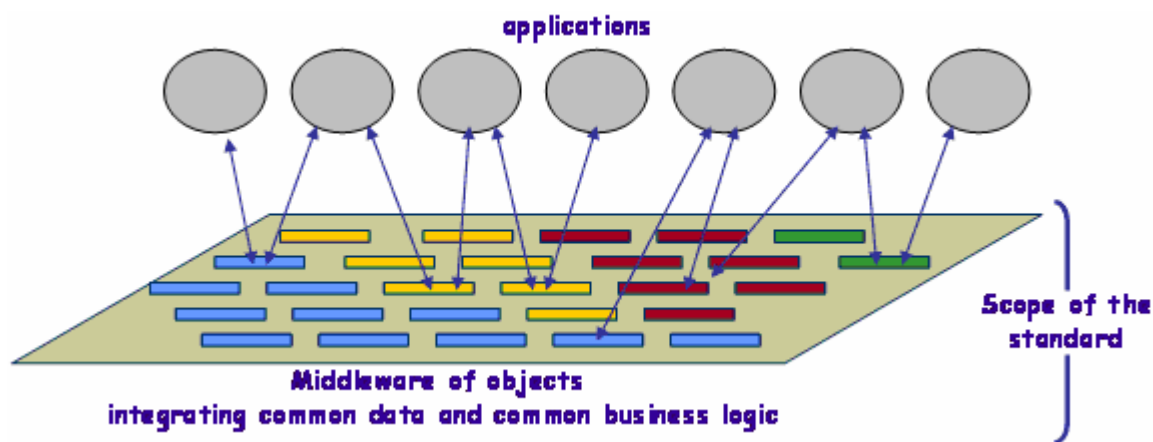


Figure 1 — Scope of this standard

The overall architecture specified by the EN 12967 standard is formalised according to ISO/IEC 10746 and is therefore structured through the three viewpoints:

- a) Enterprise Viewpoint that specifies a set of fundamental common requirements at enterprise level with respect to the organisational purposes, scopes and policies that must be supported by the information and functionality of the middleware. It also provides guidance on how one individual enterprise (e.g. a regional healthcare authority, a large hospital or any other organisation where this model is applicable) may specify and document additional specific business requirements, with a view of achieving a complete specification, adequate for the characteristics of that enterprise.

Enterprise Viewpoint is specified in Part 1 of the standard; document EN 12967-1.

- b) Information Viewpoint that specifies the fundamental semantics of the information model to be implemented by the middleware to integrate the common enterprise data and to support the enterprise requirements formalised in the Enterprise Viewpoint. It also provides guidance on how one individual enterprise may extend the standard model with additional concepts, needed to support local requirements in terms of information to be put in common.

Information Viewpoint is specified in Part 2 of the standard; document EN 12967-2.

- c) Computational Viewpoint that specifies the scope and characteristics of the services that must be provided by the middleware for allowing the access to the common data as well as the execution of the business logic supporting the enterprise processes identified in the Information and Enterprise

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