DIN EN ISO 12967-1:2011-06 (E)

Health informatics - Service architecture - Part 1: Enterprise viewpoint (ISO 12967-1:2009); English version EN ISO 12967-1:2011

Inhalt

Seite

Foreword 4

Introduction 5

1 Scope 8

2 Normative references 8

3 Terms and definitions 9
3.1 System concepts 9
3.2 Concepts relating to organization 9
3.3 Community concepts 10
3.4 Behaviour concepts 10
3.5 Policy concepts 12
3.6 Accountability concepts 12

4 Symbols and abbreviations 13

5 Methodology for the specification of the architecture 14
5.1 Viewpoints for the specification of the architecture 14
5.2 The HISA specification procedure 15
5.2.1 The Strategic Paradigm 15
5.2.2 Specification of the enterprise viewpoint 16
5.2.3 Specification of the information viewpoint 16
5.2.4 Specification of the computational viewpoint 17
5.3 Iterative specification 17
5.4 Viewpoints specification languages and notations 18

6 HISA overview 18
6.1 General requirement 18
6.2 Enterprise viewpoint 19
6.3 Information viewpoint 20
6.4 Computational viewpoint 21

7 Methodology for extensions 22

8 Conformance criteria 22
8.1 Conformance of specification documents to the HISA methodology 22
8.2 Conformance of middleware products to the HISA architectural requirements 23

9 The HISA Enterprise viewpoint 23
9.1 Introduction (informative) 23
9.1.1 General 23
9.1.2 The regional, inter-enterprise perspective 24
9.1.3 The medical/clinical perspective 25
9.1.4 The operational/clinical and organizational process model perspective 26
9.1.5 The Healthcare Information Services and their complexity 32
9.2 The fundamental workflows and groups of users' activities to be supported by the middleware 33
9.3 General information requirements for all users' activities 34
9.3.1 Introduction 34
9.3.2 Common attributes 34
9.3.3 Extensibility 34
9.3.4 Versioning 34
9.3.5 Auditing 35
9.3.6 Handling of life cycle 35

Page

9.4 Subject of care workflow 35
9.4.1 Textual description of requirements 35
9.4.2 Use-case examples (informative) 38
9.5 Clinical information workflow 41
9.5.1 Textual specification of requirements 41
9.5.2 Use-case examples (informative) 42
9.6 Activity management workflow 43
9.6.1 Textual description of requirements 43
9.6.2 Use-case examples (informative) 46
9.7 Resources management activities/Textual description of requirements 48
9.8 Management activities for users and authorizations/Textual description of requirements 49
9.9 Classifications, coding and dictionaries management activities/Textual description of requirements 50

Annex A (informative) **Highlights of Open Distributed Processing (ODP) 53**

Annex B (informative) **Rationale for the federative structure of the Health Informatics Service Architecture 56**

Bibliography 59