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ISO/IEC 10746-1:1988, *Information technology – Open Distributed Processing – Reference model: Overview*

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RFC 1738:2004, *Uniform Resource Locators (URL)*

RFC 2045:1996, *Multipurpose Internet Mail Extensions - (MIME) Part One: Format of Internet Message Bodies*

RFC 2046:1996, *Multipurpose Internet Mail Extensions - (MIME) Part Two: Media Types*

RFC 2806:2000, *URLs for Telephone Calls*

RFC 2936:2000, *HTTP MIME Type Handler Detection*

RFC 2978:2000, *IANA Charset Registration Procedures*

4 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

4.1
abstract class
in Unified Modelling Language, a “virtual” common parent to two or more classes; the abstract class will never be instantiated. Its value in modelling terms is to provide a container for attributes and associations that might apply to several other classes (its sub-classes)

4.2
archetype instance
individual metadata class instance of an Archetype Model, specifying the clinical concept and the value constraints that apply to one class of Record Component instances in an electronic health record extract

4.3
archetype model
information model of the metadata to represent the domain-specific characteristics of electronic health record entries, by specifying values or value constraints for classes and attributes in the electronic health record Reference Model

4.4
archetype repository
persistent repository of archetype definitions, accessed by a client authoring tool or by a run-time component within an electronic health record service

4.5
audit trail
chronological record of activities of information system users which enables prior states of the information to be faithfully reconstructed

4.6
concept
unit of knowledge created by a unique combination of characteristics

[ISO 1087-1:2000]

NOTE Concepts are not necessarily bound to particular languages. They are, however, influenced by the social or cultural background often leading to different categorizations.

4.7
electronic health record
repository of information regarding the health of a subject of care, in computer processable form

[ISO TR 20514:2004]

4.8
electronic health record entry
health record data in general

EXAMPLE clinical observations, statements, reasoning, intentions, plans or actions, without particular specification of their formal representation, hierarchical organisation or of the particular Record Component class(es) that might be used to represent them

4.9
electronic health record extract
part or all of the electronic health record of a subject of care, communicated in compliance with EN 13606

4.10
electronic health record system
system for recording, retrieving and manipulating information in electronic health records

4.11
generic
applicable to requirements or information models across healthcare professions, domains and countries

4.12
metadata
data that defines and describes other data

[ISO/IEC 11179-3:2003]

4.13
patient
subject of care

4.14
semantic
relating to meaning in language

4.15
semantic interoperability
ability for data shared by systems to be understood at the level of fully defined domain concepts

[ISO/TS 18308:2002]

4.16
shareable electronic health record
electronic health record with a standardised information model which is independent of electronic health record systems and accessible by multiple authorised users

[ISO/CD TR 20514]

4.17
subject of care
person scheduled to receive, receiving, or having received health care

[EN 14822-2:2005, modified]

5 Symbols and abbreviations

ADL
Archetype Definition Language

EHR
Electronic Health Record

ODP
Open Distributed Processing

UML
Unified Modelling Language

XML
Extended Markup Language

6 Archetype Representation Requirements

This section lists a set of formal requirements for an archetype representation. This provides the basis on which the archetype model specified in the next section has been designed. It has been necessary to define these requirements within this part-standard as there is little published work on requirements for such a model, unlike the EHR itself for which ISO TS 18308 has been adopted.

6.1 Archetype definition, description and publication information

6.1.1 The definition of an archetype shall include the following information.

6.1.1.1 The globally-unique identifier of this archetype definition.

6.1.1.2 The identifier of the repository in which this archetype originated or is now primarily held, or of the authority responsible for maintaining it. This repository will be the one in which the definitive publication status of this archetype will be managed.

6.1.1.3 The concept that best defines the overall clinical scope of instances conforming to this archetype as a whole, expressed as a coded term or as free text in a given natural language.

6.1.1.4 The health informatics domain to which this archetype applies (e.g. EHR). This will map to a set of Reference Models with which this archetype may be used.

6.1.1.5 The underlying Reference Model for which this archetype was ideally fashioned. (Note: an archetype might be capable of use with more than one relevant Reference Model within a given health informatics domain, but it is expected that the archetype will be optimised for one.)

6.1.1.6 The natural language in which this archetype was originally defined, represented by its ISO 639-code. In the event of imprecise translations, this is the definitive language for interpretation of the archetype.

6.1.2 The definition of an archetype may include the following information, if applicable.

6.1.2.1 The globally-unique identifier for the archetype of which this archetype is a specialisation and to which it shall also conform.

6.1.2.2 The globally-unique identifier of the former archetype that this definition replaces, if it not the first version of an archetype.

6.1.2.3 The reason for defining this new version of a pre-existing archetype.

6.1.2.4 The identifier of the replacement for this archetype, if it has been superseded. Note: it might only be possible to add this information by reference within a version-controlled repository; how this is effected is not in scope for this standard.