What means SOA for the EHRS-FM?

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• What is driving us?
  – HL7 Strategic Initiative
  – Customer expectations
## SDOs Specialized for Spec Types

<table>
<thead>
<tr>
<th>Specification Type</th>
<th>SDOs (Selection)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain crossing technical/technological standards</td>
<td>ISO/IEC, ETSI, NIST</td>
</tr>
<tr>
<td>Domain specific specifications</td>
<td>HL7, ISO TC 215, CEN TC 251, ASTM, IHTSDO, WHO</td>
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<tr>
<td>Domain crossing architecture related specifications</td>
<td>OMG, TOG</td>
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<tr>
<td>Domain crossing process related specifications</td>
<td>OASIS</td>
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<tr>
<td>Internet related specifications</td>
<td>W3C, IETF</td>
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<tr>
<td>Business/trading specifications and instances</td>
<td>UN, CENELEC, GS1</td>
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</tbody>
</table>
Reliability of Standards

• Norms (CEN, ETSI, CEN-ELEC, NEN, BSI, DIN)
• Standards
  – de jure standards (ISO, HL7, OASIS, IHTSDO, UN-CEFACT)
  – Industry standards (DICOM, OMG, Continua, Liberty Alliance,
  – de facto standards (Windows)
Types of Standards

- Technical Reports
- Technical Specifications
- International Standards
- Narrative specifications
- Semiformal specifications
- Formal specifications
- Platform-independent specifications
- Platform-specific specifications
Standards and Publicly Available Specifications (PAS)

• Domain-Independent Specifications
• Domain-Specific Specifications
• General Specifications
• Application-Related Specifications
• Infrastructural Specifications
• Architecture Standards
• Modelling and Methodology Standards
• Requirements Standards

• Communication Standards
• Infrastructure Standards
• Privacy Standards
• Safety Standards
• Token Standards
• Quality Standards
• Policy Standards
• Terminology and Ontology Standards
• ID Management Standards
Standards Classification Health Informatics (1/2)

• Architecture standards
  – TOGAF, ISO/IEC 10746, CORBA, MDA, HISA, OASIS Reference Model for SOA, OASIS Ref. Architecture for SOA Foundation, ...

• Modeling standards

• Process standards
  – RUP, The Open Group Service Integration Maturity Model, SOA Governance Framework

• Communication standards
  – HL7 v2.x/3, ISO 17113 Health informatics – Exchange of information between healthcare information systems – Development of messages, ISO/IEEE 11073 Health informatics -- Point-of-care medical device communication, UN CEFACT, ebXML

• Terminology and ontology standards
  – UMLS, LOINC, SNOMED, SOA Ontology Infrastructure standards
Standards Classification Health Informatics (2/2)

- Requirements Standards
  - EHRS FM, SFM, DAMs

- Infrastructure standards
  - LOINC, ASTM E1714-00: “Standard guide for properties of a Universal Healthcare Identifier”
  - ISO 17090: “Public key infrastructure”, ETSI TS 101733: “Electronic Signature Formats”

- Privacy standards

- Safety standards
Basic Question

• Is the EHRS-FM limited to the „What“, or does it include the technology-independent „How“?
• A system’s architecture implies most other considerations.