Healthcare Services Reference Architecture (HL7-HSRA)

Project Information

The objective of the HL7 Health Services Reference Architecture (HL7-HSRA) is to support the design of medium/large scale eHealth architectures based on HL7 services and standards.

Building Enterprise Service architectures requires an understanding of composite solutions that include different services organized in choreographies and/or orchestrations that cover many areas within medium to large-scale organizations. The intent of the HL7-HSRA is to support the process of architectural design with a map of building blocks and solution patterns based on existing HL7 Standards.

This project organizes HL7 completed Service Functional Models, Functional Profiles, and Domain Models into:

- a formalized Enterprise Service Inventory
- an Architectural Patterns Catalog
- associated methods for enterprise Service discovery and orchestration

The role of specific technology/standard service implementations (FHIR, OMG/HL7 Soap services, IHE XD* family an soap services) will be discussed.

The audience of the HL7-HSRA will be principally focused on architects and CIOs that need to design, plan, and evaluate enterprise-wide solutions for complex organizations.

However, the project is relevant also for the internal HL7 audience. The HIRA outcome verifies the consistency of the HL7 standard and potential areas not fully covered or with relevant overlapping. The Pattern Catalog can also support the mapping among different HL7 standards for the behavioral aspects (e.g. V3-CDA2-FHIR)

The project use OMG Unified Architecture Framework (UAF) as modeling language and NAF 4.0 (UAF based) as a framework.

Project Facilitators

Stefano Lotti, Vincent McCauley

Project Scope Statement

HL7_PSS-SOA_WG-HL7-HSRA_Final 13Jul20182.doc

Objectives

| | Dec 06, 2021 |
|------------------|--|---|
| ✓ Final Content deadline Jan 2022 ballot |   |
| ✓ Ballot Jan 2022 | Dec 10, 2021 - Jan 10, 2022 |

Project Documents

- (NEW) HL7_HSRA_R1_D1_2022JAN.pdf
- HSRA Draft 1.0
- HIRA Current status WGM September 2021
- HIRA Draft-0.1 (July 2021)
- HIRA Initial Draft
- HIRA Current Status WGM May 2021
- HIRA Current Status WGM January 2021
- HIRA Project Update Virtual WGM September 2020
- HIRA Project Update Sydney WGM February 2020
- HSRA Project Update to ArB Call, 14-11-2019
- HSRA Project Update (after) Atlanta WGM September 2019
- HSRA Project Update Montreal WGM May 2019
- HSRA Development Status (18-04-2019)
- HSRA SOA WG / ArB Update (20-12-2018)
- HSSP HSRA presentation (Baltimore 2018)
- PCP Specialist Care Team Scenario (Madrid 2017 WGM Prework)

Supporting Documents

- Life of the Lamberts (LoL) Documentation: Life of the Lamberts Generic.docx
<table>
<thead>
<tr>
<th>Artifact Name</th>
<th>Revision &amp; Date</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSRA Meta-model</td>
<td>v0.6 (draft) December 20, 2018</td>
<td>This model (draft 06) represents the main contents included in HSRA. The model is derived from OMG-Structured Patterns Metamodel (SPMS) Standard-v1.2 and OASIS-Reference Architecture Foundation for Service Oriented Architecture (SOA-RAF) v1.0. See HSRA SOA WG / ArB Update (20-12-2018) for details.</td>
</tr>
<tr>
<td>HSRA Meta-model</td>
<td>v0.5 (draft) November 25, 2018</td>
<td>This model (draft 05) represents the main contents included in HSRA. The model is derived from OMG-Structured Patterns Metamodel (SPMS) Standard-v1.2 and OASIS-Reference Architecture Foundation for Service Oriented Architecture (SOA-RAF) v1.0.</td>
</tr>
<tr>
<td>HSRA Overview Diagram</td>
<td>v4.0 (draft) November 2018</td>
<td>The diagram represents the HSRA landscape using the Archimate language formalism. The diagram was updated after the Baltimore WGM. See HSRA SOA WG / ArB Update (20-12-2018) for details.</td>
</tr>
<tr>
<td>SOA/HSSP Conceptual Architecture Diagram</td>
<td>2.0.1 October 2018</td>
<td>HSRA Concept diagram updated based upon discussions at Baltimore WGM. This reflects addition of data sources layer into the diagram.</td>
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<tr>
<td>SOA/HSSP Conceptual Architecture Diagram 2.0</td>
<td>HSRA Concept diagram (old version).</td>
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<tr>
<td><a href="HSSP_Reference_v2.01.pdf">Image</a></td>
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