HIRA – Healthcare Interoperability Reference Architecture
(former HSRA Healthcare Service Reference Architecture)
Project Update
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HIRA Status

- HIRA will be balloted (STU) in the January Ballot Cycle
- Remaining work for ballot:
  - Finalize model details (inventory)
  - Pattern Library
  - Some introductory text
HIRA MODEL RECAP
The objective of the HL7 Healthcare Service Reference Architecture (HL7-HIRA) is to support the design of medium/large scale eHealth architectures based on HL7 services and standards.

The project organizes adopted HL7 Service Functional Models, Functional Profiles and Domain Models as a basis for:

- a formalized Enterprise Service Inventory (Normative)
- an Architectural Patterns Catalog (Normative)
- guidelines for enterprise Service Discovery and Orchestration (Informative)
HIRA as a tool

- HIRA represent a tool for architects and CIOs
- The Reference Architecture it’s useful to navigate and select Health Standards and can be used also in combination with an Enterprise Architecture Frameworks (e.g. TOGAF and NAF 4.0)
- HIRA is centered on standard business capabilities and shown how these capabilities are realized with different technical standards (Technical Model Projections).
Functional models and technical projections

Approach for Enterprise Service Discovery and Orchestration (link TBD)

Architectural Patterns (TBD)
The Modeling language used for HIRA is the OMG UAF (Unified Architecture Framework).

- UAF is a modeling language based on UML/SysML and also integrated with BPMN2 and SoaML.
- The UAF scope is the representation of complex Architectures.
A single artifact approach

- We use of a specific modeling language, as UAF, to support a “single artifact” approach with the objective to support the maintainability and the navigability of HSRA

- We’ll have a single artifact (the model) that can be easily published as a website with linked standard documents, or in a traditional document.

- The UAF editor used is MagicDraw because the HL7/Sparx EA license agreement do not include UAF plugin.
HIRA MODEL UPDATE
HIRA model navigation
## Strategic Taxonomy Table Identification Services

<table>
<thead>
<tr>
<th>Strategic Taxonomy Table Identification Services</th>
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<tbody>
<tr>
<td><strong>Identification Service (IDS)</strong></td>
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<tr>
<td>The Identification and CrossReference Service (IDS) Functional Specification is charged with defining the functional specifications of a set of service interfaces to uniquely identify various kinds of entities (e.g., people, patients, providers, devices and so on) within disparate systems within a single enterprise and/or across a set of collaborating enterprises.</td>
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<td><strong>Register an Identity</strong></td>
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<td>Allows for creation of an identity with a supplied set of property values. Uses an identifier supplied by the service consumer which is unique within the Domain with the Entity Type.</td>
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<tr>
<td><strong>Core Identity Management Functions</strong></td>
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<tr>
<td>Allows for creation of an identity instance with a list of property values, where the identifier is generated and passed back to the service consumer. Would only be used where the consumer cannot generate and supply its own &quot;local identifier&quot;, although this is an implementation and technical specification choice. This identifier is different from IDS ID.</td>
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This service is intended to allow for the resolution of demographics and other identifying characteristics (aka properties) that lead to a unique identifier. This allows any clinical system that uses the service to maintain a common description for each entity and to manage the entities. A core standard for assessing and maintaining entity identification information all use systems and applications to have a consistent means of indexing data related to an entity.

Next steps

- Download model draft on Confluence
- Understand model publication path in HL7 (web/document)
- Finalize inventory details
- Include IHE Profile projection
- Patterns
- Some introductory texts
- January 2021 Ballot
Q&A

HIRA HL7 Confluence Page: https://confluence.hl7.org/x/Ag0hAg