HIRA – Healthcare Interoperability Reference Architecture
(former HSRA Healthcare Service Reference Architecture)
Current Status
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Current status

▪ Unfortunately, the pandemic and subsequent dayjob workload has paused HIRA's activities
▪ As a result, we have skipped the current ballot
▪ The work will be restarted the next week with a new workplan
▪ The objective is to ballot HIRA in the next cycle
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)
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
Model

HIRA model navigation
# Strategic Taxonomy Table Identification Services

## Strategic Taxonomy Table Identification Services

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Description</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identification Service (IS)</td>
<td>The Identification and CrossReference Service (IS/CRS) 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 across a set of collaborating enterprises.</td>
<td><a href="https://www.hl7.org/hp/fm/standards/product_brief.cfm?product_id=7">https://www.hl7.org/hp/fm/standards/product_brief.cfm?product_id=7</a></td>
</tr>
<tr>
<td>2</td>
<td>Management Function</td>
<td>Core identity management functions.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Register an Identity</td>
<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 's Entity Type. Although it does not directly impair the description of the interface or parameters other than the potential output message, it is expected that IS/CRS implementations will typically provide some level of automated implicit linking capabilities. This could be policy driven, or be handled manually using the explicit linking operations described in this specification. This functionality is similar to that described by the IS/CRS profile. This would be triggered when a new entity is created or the properties of an entity updated. The triggered behavior should be as described for the Link Identification operation. Actually 'linking' entities based on automated logic is not encouraged. Note that the actual policies are handled through &quot;out of band&quot; agreements.</td>
<td></td>
</tr>
</tbody>
</table>
St Identification

10 Management Functions

- Capability: Register an Identity
- Capability: Create Identity
- Capability: Update Identity Property Values
- Capability: Update Identity State
- Capability: Merge Identities
- Capability: Unmerge Identities
- Capability: Link Identities
- Capability: Unlink Identities
- Capability: Remove an Identity Instance

10 Query Functions

- Capability: Get All Information for an Identity
- Capability: Find Identities by Property
- Capability: List Linked Identities
- Capability: Request Identity Update Notifications
- Capability: Update Identity Notification Request
- Capability: Notify Identity Updates

10 Metadata Management Functions

Documentation: “The Metadata Management functions are considered but not specified in the IS standard.”

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