

# Init1pm11 - LS DAM refinement and utilization

## Pre Interview:

Item	Information/Response
Date:	12/17/2009
<b>Requirement # unique id</b> <SemCon Ops Initiative>. <analysts initials><requirement number> e.g. Init1dbw1 (eventually linked to Use Cases)	Init1pm11
<b>Originator/Customer's Name:</b>	<a href="#">Frank Hartel - forum posting</a>
<b>Originator/Customer's Company:</b>	NCI
<b>Stakeholder Community:</b> Enter appropriate category of stakeholder from Primary Stakeholders:  <ul style="list-style-type: none"> <li>• Software and Application designers and architects</li> <li>• Software and Application engineers and developers</li> <li>• Scientific and medical researchers</li> <li>• Medical research protocol designers</li> <li>• Clinical and scientific research data and metadata managers</li> <li>• Clinicians</li> <li>• Patients</li> <li>• Medical research study participants</li> <li>• Broader Stakeholders: caBIG@Community WS NIH projects and related commercial COTS vendors (caEHR, SDO's (HL7, CDISC); International Collaborators (e.g NCR1, cancerGrid, China), Government and regulatory bodies (FDA, CDC, ONC) (<a href="#">link to view SemConOps Stakeholders description</a>).</li> </ul>	Software and Application designers and architects
<b>Summary of requirement pre-interview, by Reviewer:</b>	<p>Domain analysis models play a central role in providing a common framework for implementation models. Within the life sciences domain a first pass domain analysis model called the LSDAM is being produced. Ultimately this model will need to be revised and refined so that it can play a role in the life sciences domain analogous to the role played by the BRIDG model in the clinical trial space. The architectural and semantics expectations regarding future development of this model will play a role in driving refinement, however the functional and structural requirements of the life sciences domain must drive the evolution of the model and the tactics that are defined for its use. DAMs are authored by Information Modelers, overseen by Metadata Curators, and reused by Information Modelers and Software Engineers.</p> <p>//</p> <p>The issues with the current infrastructure and business practices are that the required domain models typically only hold the classes, attributes, associations, some models contain enumerations, but not all. And no other constraints on submitting formalized behaviors.</p> <p>In order to localize, or constrain a DAM, such as BRIDG, a developer needs to understand the rules that apply to the model, and what is allowed to be changed. Can the value domain be changed? can a different code list be used? etc. One example was around activity classes in BRIDG when trying to develop COPPA. They were very complicated and we didn't know (without talking to the developer or seeing the data) if they were complete or not complete (e.g., specific enough or too general or wrong or ambiguous, semantically)" WE need to understand more about this requirement in order to develop a use case.</p>
<b>Recommended Next Step</b> Enter one: Follow-up interview, Observe, Use Case Template (text), Use Case Model (formalized/UML diagram), Group Discussion, Prototype, Waiting Room	Followup Interview

## Post Interview - ongoing throughout development of use cases:

Item	Description	Information/Response
<b>Requirement Type (required)</b>	<p>Analyst's assesement of the most appropriate category/type of requirement (<i>no need to ask interviewee</i>):</p> <ul style="list-style-type: none"> <li>• <b>Functional:</b> Fundamental or essential to the product - describes what the product has to do or what processing is needed</li> <li>• <b>Nonfunctional:</b> properties the functions must have such as performance, usability, training or documentation <ul style="list-style-type: none"> <li>◦ <b>Project constraint:</b> schedule or budget constraints</li> <li>◦ <b>Design constraint:</b> impose restrictions on how the product must be designed, such as conformant to ISO 11179, utilizes 21090 or is able to work on a particular type of device</li> <li>◦ <b>Project driver:</b> business-related forces such as descriptions of stakeholders or purpose of the product/project</li> <li>◦ <b>Project issue:</b> conditions that will contribute to the success or failure of the project</li> </ul> </li> </ul>	---

ConOp Initiative(s) Requirements Analyst /Business Analyst	<ul style="list-style-type: none"> <li>Select most appropriate initiative: (click for descriptions)</li> <li><a href="#">Initiative 1 - Distributed, federated metadata repositories and model repositories and operations</a></li> <li><a href="#">Initiative 2 - Automated generation of metadata from line-of-business artifacts</a></li> <li><a href="#">Initiative 3 - Rules management and contracts support (behavioral semantics)</a></li> <li><a href="#">Initiative 4 - Semantics support for W3C service oriented architecture resources</a></li> <li><a href="#">Initiative 5 - HL7 CTS II/ OMG MIF compliant federated terminology services</a></li> <li><a href="#">Initiative 6 - Controlled biomedical terminology, ontology and metadata content</a></li> <li><a href="#">Initiative 7 - Assessment of semantic unification of compositional and derivational models</a></li> <li><a href="#">Initiative 8 - Other</a></li> </ul>	—
<b>Use Case Linkage (required)</b> Business Analyst	Which use case(s) is this requirement linked to? (should follow Use Case numbering scheme <SemCon Ops Initiative>.<analysts initials><requirement number>.<use case number>, for example Init1dbw1.1, Init1dbw1.2, Init2dbw2.1, 2.2, etc.	Init1pm11.u - LS DAM refinement and utilization <a href="https://wiki.nci.nih.gov/x/rgtyAQ">https://wiki.nci.nih.gov/x/rgtyAQ</a>
<b>Conflicts / Dependence s(required)</b> Requirements Analyst/ Business Analyst	Are there any conflicts with other requirements / use cases?	Yes OR No - If yes, what and why?
<b>Next Step (required)</b> (Requirement Analyst / Business Analyst)	After reviewing the results of the interview, the forum, and all other materials related to this requirement, the analyst should recommend the next step, then attach the Tiny Link (on the Info tab) for this page to the <a href="#">Master List</a> table.	Enter one: Follow-up interview, Observe, Use Case Template (text), Use Case Model (formalized/UML diagram), Group Discussion, Prototype, Waiting Room