

Semantic Infrastructure Concept of Operations Initiatives - Requirements Master List

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Semantic Infrastructure Concept of Operations Initiatives Links

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Note

This page outlines the semantic infrastructure elicitation of requirements from 2009 and early 2010 and was last updated in August, 2010. The [Semantic Infrastructure Roadmap](#) is the next phase of evolution of CBIIT Semantic Infrastructure planning.

This page is the master list for organizing stakeholder business requirements for the existing semantic infrastructure, that may impact the new CBIIT semantic infrastructure roadmap. The Semantic Infrastructure Roadmap replaces the 2009 Semantic Infrastructure Concept of Operations. Any requests which do not fit into the seven initiatives described by the Semantic Infrastructure Concept of Operations were also documented. After collection of more details on all the requirements, a UML Model depicting the high level technical service requirements and their decomposed use cases was developed.

historical link: https://wiki.nci.nih.gov/download/attachments/20285848/10_06_17_UMLofREQUIREMENTS.pdf

To communicate requirements for the existing infrastructure not listed here, the contact was Denise Warzel. For requirements pertaining to the new CBIIT semantic infrastructure, the contact was Dave Hau. For semantic infrastructure requirements for caEHR, the contact was John Speakman.

Links to Related Pages

- [UML Model of Use Cases by Requirement Level \(pdf version\)](#)

historical link: https://wiki.nci.nih.gov/download/attachments/20285848/10_06_17_UMLofREQUIREMENTS.pdf

- [UML Model of Use Cases by Requirement Level \(html version\)](#)
- [A roadmap for requirement analysis for ECCF traceability](#)
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Explanation of Columns in the Requirements Master List

- Infrastructure
 - **IS09 Validation** - The Validation service verifies structural and semantic consistency across messages used in interoperability scenarios.
 - **IS10 Transformation** - The Transformation service provides a functional end point to manage and enact mappings between syntactically disparate information types.
 - **IS11 Knowledge Management** - Knowledge Management service represents a series of capabilities around the storage, versioning, searching, discovery, and expression of the semantics supporting key capabilities.
 - **IS12 Service Contract Management** - Service Contract Management service represents a series of capabilities around the storage, versioning, searching, discovery and expression of the contract semantics supporting interoperability.

- **IS13 Enterprise Vocabulary** - Enterprise Vocabulary services support the management, storage, and mapping of terminologies and value sets.
- Topic - is the forum topic title from the request: [Spring Requirements Forum](#), [Winter Requirements Forum](#) or a title given to a request that came directly from a customer or stakeholder.
- Submitter - is the stakeholder requesting the new feature or work. Email links are provided for historical purposes.
- Requirement Statement (author) - is the person initiating the process whether pulling information from the forums or receiving requests from stakeholders
- Interview Analyst - is the person in direct contact with the submitter in order to extract requirements.
- Use Case Analyst - is the person taking the requirements in order to create use cases.
- Phase 1 Target - the goal to be achieved in phase 1
- Requirement Link(s) - artifacts created during the requirements process
- Notes - notes related to this requirement

The following table contains the Requirements Master List. ***Click the text in the header to sort the column.***

Requirements Master List

Topic	Infrastructure Service	Type	Submitter	Req Statement	Interview Analyst	Use Case Analyst	Phase 1 Target	Requirement Link(s)	Notes
21090 Datatype Support	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Christo Andonyadis	Patrick	---	---	Formal Requirements Statement, Summary Use Cases	Requirements Input - Init1pm16 (ISO 21090) Use Cases - Init1pm16.u (ISO 21090)	Services for data integration caBIG Community - (Avinash Shanhbag CBITT Leader)
Ability to share a link to a CDE	Knowledge Management	Manage & Create Model Metadata	Konrad Rokicki	Baris	n/a	Patrick	Formal Requirement Statement and Use Case Summary	Requirements Input - Init1bes10 Use Cases - Init1bes10.pm17	This feature already exists, clarify use cases to ensure that all are supported Retrieving Content for CDEs
Ad Hoc Reporting features	Knowledge Management	Manage & Create Model Metadata	Denise Warzel	Shantanu	n/a	---	Summary Requirements statement	Requirements Input - Init1sd15	Provide ability to generate customized reports from metadata content
Allow users to bulk load unannotated content to MDR	Knowledge Management	Manage & Create Model Metadata	Denise Warzel Diann Reeves	Baris	Baris	---	Formal Requirements Statement	Requirements Input - Init1bes13	Models
Automate	Knowledge Management	Manage & Create Model Metadata	Sal Mungal	Patrick	n/a	Patrick	Formal Requirements Statement and 2-4 Summary Use Cases	Requirements Input - Init1pm9 Use Cases - Init1pm9.pm16 - Automate Use Cases - Init1pm7.SD200-Automate caDSR model submission Use Cases - Otherhm2.pm13 - Conditional CDEs	Automate creating CDEs from skip patterns of Forms, workflow to automate annotation and loading of Models
Automate & Streamline caDSR Model Submission Process	Knowledge Management	Manage & Create Model Metadata	Bilal Elahi	Patrick	n/a	Shantanu	Formal Requirements Statement and 2-4 Use Cases	Requirements Input - Init1pm7 Use Cases - Init1pm7.SD200.u	support end-to-end annotation and loading of models, traceability; the need to submit a model to be loaded by someone else may go away; this could be a short term solution, depending on LOE to implement
Automate Loading process:	Knowledge Management	Manage & Create Model Metadata	Ashwin Mathur	Patrick	n/a	Shantanu	Formal Requirements Statement and 2-4 Use Cases	Requirements Input - Init1pm6 Use Cases - Init1SDpm6.100.u	Models
Best Practices for Using Standardized/Preferred Relations	Constraint	Supplemental Specification Requirement on Ontology Best Practices	Jyoti Pathak	Shantanu	Shantanu	---	Formal Requirements Statement	Requirements Input - Init5sd9	---
Brain Tumor in silico study: Pathology /Radiology data models	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Joel Saltz	Patrick	Shantanu	Shantanu		Requirements Input - Init6pm23 Use Cases - Init6pm23.u	Integration Use Cases

caBIG Rules Engine White Paper v4 historical link https://wiki.nci.nih.gov/download/attachments/20285848/caBIG_Rules_Engine_WP_v4.doc	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Joel Saltz	---	---	---	Formal Requirements Statement	---	---
caDSR or rather MDR requirements	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Hannes Niedner	Patrick	Hua	---	Formal Requirements Statement	Requirements Input - Init1pm12	Services
caEHR Content Development	NA	No Requirement Specified	Gilberto Fragoso Kevin Hurley	Patrick	---	Patrick	Formal Requirement Statement and Use Cases	---	caBIG Community
caEHR SI Services	NA	No Requirement Specified	Gilberto Fragoso Kevin Hurley	Patrick	---	Patrick	Formal Requirement Statement and prioritized use cases	---	caBIG Community
Canada Infoway Clinical Concept Representation	No Clear Requirement Defined.	Discussion presentation on identifying Clinical Concepts through use of HL7 and Clinician Feedback.	Mark Shafarman, Bill Gilliam	---	---	---	Formal Requirements Statement, high level use cases	---	Canada Infoway Clinical Concept ppt
cancerGrid Federated Registries	Constraint	Supplement Specification Req. for Federated MDRs	Steve Harris	---	---	---	Formal Requirements Statement; Summary of Services Use Cases (see Michael Riben)	---	caBIG Stakeholders - 11179 and Forms metadata exchange
CDE service to return enumerations by reference	Vocabulary Management Knowledge Management	Manage & Create Model Metadata	Christo Andonyadis	Hua	Hua	Patrick	Formal Requirements Statement, Summary Use Cases	Requirements Input - Init1hm6 Use Cases - Init1hm6.pm18	---
CDE versions, timestamps and other metrics	Knowledge Management	Manage & Create Model Metadata	Sal Mungal	Baris	Baris	Patrick	Formal Requirements Statement	Requirements Input - Init1bes6	Display usage information in browsers, use this to organize search results
CDEs from Man. curation, UML models and CRFs	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Brian Davis Tommie Curtis	Baris	n/a	Patrick	Formal Requirements Statement	Requirements Input - Init1bes9 Use Case - Init1bes9.pm11	leverage semantics of existing content to find /reuse content from different sources to create Forms
CDISC SHARE	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Margaret Haber	Baris	---	---	Formal Requirements Statement	Requirements Input - Otherdbw1	caBIG Stakeholder
Clarification of the model madness, please	Constraint	Supplemental Specifications Requirement, build a Glossary of Model Terms	Hannes Niedner	Shantanu	Hua	---	Formal Requirements Statement	Requirements Input - Init6sd10	---

Compare Semantic data	Knowledge Management	Manage & Create Model Metadata	Tejas Dave	Baris	Baris	Patrick	Formal Requirements Statement and Use Case Summary	Requirements Input - Init1bes1 Use Cases - Init1bes1.pm9	Ability to compare Object Classes, Models, etc.
Conditional CDEs	Knowledge Management	Manage & Create Model Metadata	Sal Mungal	Hua	Baris	Patrick	Formal Requirements Statement	Requirements Input - Otherhm2 Use Cases - Otherhm2.pm13	---
Conformance Profile Browser	Knowledge Management	Manage & Create Model Metadata	John Koisch Paul Boyes Linda Schmandt	Baris	---	---	---	Requirements Input - Init3bes16	caBIG Community - Support for ECCF Use Cases
Conformance Profile Editor	Knowledge Management	Manage & Create Model Metadata	John Koisch Paul Boyes	Baris	---	---	---	Requirements Input - Init3bes18	caBIG Community - Support for ECCF Use Cases
Conformance Profile Registry (or Repository) and Format	Knowledge Management	Manage & Create Model Metadata	John Koisch Paul Boyes	Baris	---	---	---	Requirements Input - Init3bes17	caBIG Community - Support for ECCF Use Cases
Conformance Profiles	Knowledge Management	Manage & Create Model Metadata	Frank Hartel interview: John Koisch Paul Boyes	Baris	Baris	---	Formal Requirements Statement and summary of high level use cases (actor, bus goal, success scenario)	Requirements Input - Init3bes14	caBIG Community - Support for ECCF Use Cases Arch WS Presentation
Contractor and Software Vendor Application Development Support	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Patrick McConnell	Denise	---	---	Formal Requirements Statement	Requirements Input - Init1dbw8	Application Engineering
CQL 2.0 Enhancements	Knowledge Management Transformation	Manage & Create Model Metadata Search Models	Todd Parnell	Shantanu	n/a	Patrick	Decomposed forum and other materials	Requirements Input - Init1sd2 Use Cases - INIT1SD2.pm7	caB2B use cases for improving metadata for services
Cross-cutting semantic searches	Knowledge Management Enterprise Vocabulary	Align Models	Tejas Dave	Patrick	---	Patrick	Formal Requirements Statement	Requirements Input - Init1pm4	leverage searches across EVS and caDSR
CTMS Interoperability Scenarios: Maximize reuse, Minimize development	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Christo Andonyadis	Denise	---	---	Formal Requirements Statement	Requirements Input - Otherdbw2	CTMS Application Engineering CTMS Interoperability Scenarios
Curator Harmonization Activities	Knowledge Management	Manage & Create Model Metadata Search Models	Tommie Curtis	Denise	---	---	Formal Requirements Statement, high level use cases	Requirements Input - Init1dbw12	---
Customizable Download	Knowledge Management	Manage & Create Model Metadata	Bilal Elahi	Baris	n/a	---	---	Requirements Input - Init1bes3 (UCD)	allow users to search for and customize download, not just CDEs
Data rollback functionality	Knowledge Management	Manage & Create Model Metadata	Ashwin Mathur	Patrick	n/a	Shantanu	Formal Requirements Statement and 2-4 Detailed use cases	Requirements Input - Init1pm5 Use Cases - Init1pm5.u	Models
Debugging of Terminology Mappings	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Jyoti Pathak	Patrick	n/a	Shantanu	Formal Requirements Statement	Requirements Input - Init5pm21	
Downloading all CDEs	Knowledge Management	Manage & Create Model Metadata	Sal Mungal Tejas Dave	Baris	Baris	---	Formal Requirements Statement	Requirements Input - Init1bes2	Allow federation of content, current limitation of what can be extracted/easily downloaded

Dynamic CDE Browser	Knowledge Management	Manage & Create Model Metadata	Sal Mungal	Baris	Baris	---	Formal Requirements Statement and Draft list of prioritized use cases	Requirements Input - Init1bes7	Adjustable UI for the user to customize views of metadata
Enabling AutoCompletion In Creating Ontologies	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Jyoti Pathak	Shantanu	Shantanu	---	Formal Requirements Statement	Requirements Input - Init6sd7	---
Expose underlying Tool functionality as Services	Knowledge Management	Manage & Create Model Metadata	Tejas Dave	Patrick	n/a	Patrick	Formal Requirements Statement	Requirements Input - Init1pm10 Use Cases - Init1pm10.pm20	Examples of High Level Services for retrieving MDR content, caDSR Services Wiki
Extend terminology development to new populations/missions	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Daniela Smith	Shantanu	---	---	Formal Requirements Statement	Requirements Input - Init6sd11	---
FDA	NA	No Requirement Specified	Margaret Haber	---	---	---	Formal Requirements Statement	---	caBIG
Federated Data w/single source of 'truth'	Knowledge Management	Manage & Create Model Metadata	John Speakman	Denise	---	---	Formal Requirements Statement	Requirements Input - Otherdbw4	Ability to have data spread over the grid/internet, but know which data is the original, source of truth
Federated Metadata Registries	No Requirement Defined, Most likely a design constraint	Requirement for Federated MDRs captured in the Supplemental Specifications	Saurin Mehta	Denise	---	---	Formal Requirements Statement, high level use cases	---	Novartis MDR
Formal representation of policies and regulations	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Hannes Niedner	Shantanu	---	---	Formal Requirements Statement	Requirements Input - Init3sd1	---
Generation of Forms	Knowledge Management	Manage & Create Model Metadata	Sal Mungal	Hua	n/a	Patrick	Formal Requirements Statement; High level use cases for Services	Requirements Input - Otherhm1 Use Cases - Otherhm1.pm12	Related to Christo Andonyadis requirements - See 8 Other
Harmonize and reuse metadata across different terminologies	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Dianne Reeves	Denise	---	---	Formal Requirements Statement and Use Cases	Requirements Input - Init1dbw11	---
HHS OS - Data.gov	NA	Some References to Linked Data and Cloud Computing, but no clear KR Requirement.	George Thomas	---	---	---	Formal Requirements Statement, high level use cases	---	ppt links semantic.data.gov discussion
HL7 MDR Requirements	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Margaret Haber	Baris	---	---	Formal Requirements Statement and High level /priority Use Cases	Requirements Input - Init1dbw3	HL7 CIC; caBIG Stakeholder
HL7 v3 data types	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Frank Hartel	Patrick	---	---	See 21090 Datatype Support	Requirements Input - Init1pm16 (ISO 21090) Use Cases - Init1pm16.u (ISO 21090)	Services for data integration
ICR IRWG requirements • caGrid querying	Knowledge Management	Search Models	Robert Freimuth	Shantanu	---	---	Formal Requirements Statement	Requirements Input - Init4sd16	caGrid querying

ICR IRWG requirements • cde-cde and metadata mapping	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Robert Freimuth	Shantanu	---	---	Formal Requirements Statement	Requirements Input - Init1sd20	provide capabilities to build cde-cde mapping and metadata mapping for use in services
ICR IRWG requirements • metamodel for LIMS	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Robert Freimuth	Shantanu	---	---	Formal Requirements Statement C - Decomposed forum and other materials	Requirements Input - Init6sd30	metamodel for LIMS
ICR IRWG Requirements • model loading	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Robert Freimuth	Patrick	n/a	Patrick	Formal Requirements Statement; Summary Use Cases	Requirements Input - Init1pm1 Use Cases - Init1bes1.pm1	Integrated tools for model loading, traceability
ICR IRWG requirements • models and algorithms	Knowledge Management	Manage & Create Model Metadata	Robert Freimuth	Hua	Hua	Patrick	Formal Requirements Statement and Use Case Summary	Requirements Input - Init1hm1	Make it easier to reuse /map CDEs to models, improve matching algorithms
ICR-caIntegrator2	Knowledge Management Enterprise Vocabulary	Align Models	Juli Klemm Anand Basu	Shantanu	n/a	Patrick	Formal Requirement Statement and Draft prioritized use cases	Requirements Statement - Init1pm24 Use Cases - Init1pm24.pm15	Related to dynamic extensions
ICRi WG Use Case Scenarios	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Juli Klemm	Denise	---	Baris	Formal Requirements Statement; Detailed Use Cases in Round 4	Requirements Input - Otherdbw5	LS and CS Governance [Life Sciences "grid" vsd] ICRi WG Use Case Scenarios LS Activities
Improve Semantic Query Mechanism	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Christophe Ludet	Hua	---	Patrick	Formal Requirements Statement	Requirements Input - Init1hm3	leverage semantic connections and NLP for searching/identifying reusable content
Integrate all caDSR tools	Knowledge Management	Manage & Create Model Metadata	Ashwin Mathur	Baris	n/a	---	Formal Requirements Statement	Requirements Input - Init1bes5	Portal that integrates tools
Integrated CDE Tool	Knowledge Management	Manage & Create Model Metadata	Sal Mungal	Baris	Baris	---	Formal Requirements Statement	Requirements Input - Init1bes6	makes easier to use tools in a workflow, expose more metadata
Integration of LexEVS valuesets management with LexWiki	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Guoqian Jiang	Hua	---	---	Formal Requirements Statement	Requirements Input - Init5hm1	---
Integration of multiple terminologies	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Hannes Niedner	Patrick	---	---	Formal Requirements Statement	Requirements Input - Init5pm22	---
Interoperate on Address using ISO 21090 datatypes	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Sal Mungal	Patrick	n/a	---	See 21090 Datatype Support Use Cases	Requirements Input - Init1pm16 (ISO 21090) Use Cases - Init1pm16.u (ISO 21090)	Services for data integration
LexEVS "Portal" for use by other apps	Knowledge Management	Search Models	Dave Hau	---	---	---	---	--	caBIO Portlet caBIO Portlet instance Example Search to Find Gene Associated with Disease
LexEVS Enhancements	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Craig Stanci	---	---	---	Formal Requirements Statement	---	---

LexEVS Enhancements based on CTS 2 Service Functional Model	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Craig Standl	Baris	---	Patrick	Formal Requirements Statement	---	CTS2 SFM DSTU Final 20090322
								historical link: https://wiki.nci.nih.gov/download/attachments/20285848/CTS+2+SFM+DSTU+FINAL+20090322_v1+1_addenda001.doc	
LEXEvs: capture the need for new content development in NCI Thesaurus	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Larry Wright	---	---	---	Formal Requirements Statement	---	---
LexWiki enhancement	Knowledge Management	Model Administration	Guoqian Jiang	Hua	Hua	---	Formal Requirements Statement	Requirements Input - Init4hm1	---
LexWiki Tooling versioning management and upgrade mechanism	Knowledge Management	Model Administration	Guoqian Jiang	Patrick	---	---	Formal Requirements Statement and 2-3 Summary Use Cases	Requirements Input - Init5pm20	---
LS and CS Business Architecture Modeling Use Cases	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Juli Klemm	Denise	---	---	Formal Requirements Statement	---	Life Sciences and Clinical Sciences Governance
LS DAM refinement and utilization	Knowledge Management / Transformation Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Frank Hartel	Patrick	---	Patrick	Formal Requirements statement; Summary Use Cases	Requirements Input - Init1pm11 Use Cases - Init1pm11.pm3	Services
Mapping/transformation support for ISO21090 data types	Knowledge Management /Transformation Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Baris Suzek	Baris	n/a	Patrick	Formal Requirements Statement	Requirements Input - Init1bes12 Use Cases - Init1pm16.pm4 (ISO 21090)	Services for data integration
MD Anderson Federated Registries	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Michael Riben	Patrick	---	---	---	Requirements Input - Init1dbw4	caBIG Community
Medidata	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Christo Andonyadis	Patrick	n/a	Patrick	---	Requirements Input - Init1pm13 Use Cases - Init1pm13.pm14	Commercial COTS vendors - Form and CDE Services - CTMS WS
Metadata repositories should contain corresponding metadata	Knowledge Management	Manage & Create Model Metadata	Baris Suzek	---	---	---	Formal Requirements Statement	---	Guide to Mentors
NCI level vocabulary services for Diseases and Interventions	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Christo Andonyadis	Hua	n/a	Patrick	Formal Requirements Statement	Requirements Input - Init1hm2 Use Cases - init1hm2.pm22	---
Need for a Content Driven (Clinician Friendly) Browser	Knowledge Management	Manage & Create Model Metadata	Bilal Elahi	Patrick	n/a	Shantanu	Formal Requirements Statement; Develop summary list of use cases (Most common queries)	Requirements Input - Init1pm2	Easier to use Browser - User Centered Design details attached

NLP Integration	Knowledge Management	Search Models	Sharon Gaheen	Shantanu	n/a		Formal Requirements Statement	Requirements Input - Init4sd8	---
Ontology enabled indexing of literature	Knowledge Management /Transformation Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Frank Hartel	Shantanu	n/a	Patrick	Formal Requirements Template Decomposed forum and other materials	Requirements Input - Init1sd13 Use Cases - INIT1SD13.pm23	---
Policies/protocols that will ensure concurrent registration of model /metadata	Knowledge Management /Transformation	Manage & Create Model Metadata	Baris Suzek	---	---	---	Formal Requirements Statement	---	Guide to Mentors
Programmatic access to 'Materials and Methods' section of a paper	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Ian Fore	Denise		Patrick	Formal Requirements Statement	Requirements Input - Otherdbw3 Use Cases - Otherdbw3.pm23	Similar to Yolanda's semantic workflows
RDF triple store backend for LexEVS	Knowledge Management	Manage & Create Model Metadata Search Models	Cui Tao	Hua	Hua	Shantanu	Formal Requirements Statement	Requirements Input - Init4hm1 Use case - Init4hm1.SD210	---
Registration of Models in GME	Knowledge Management	Manage & Create Model Metadata Search Models	Tony Pan	Baris	n/a		Formal Requirements Statement and Use Cases	Requirements Input - Init8bes15	---
reqs sharing (Support metadata for Statistical Practice)	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Sue Dubman	Shantanu	---	Shantanu	Formal Requirements Statement;	Requirements Input - Init1SD40	Genzyme - Will be handled by CBIT Team Statistical Practice Article historical link: https://wiki.nci.nih.gov/download/attachments/20285848/04-DIJ44%281%29+2459+qxd.pdf
Reuse of metadata	Knowledge Management Enterprise Vocabulary	Align Models	Sal Mungal	Hua	Baris	Patrick	Formal Requirements Statement	Requirements Input - Init1hm4	leverage semantic metadata and model relationship to find/reuse content
Reuse or create new data elements at runtime	Knowledge Management	Manage & Create Model Metadata	Juli Klemm	Hua	Hua	Patrick	Formal Requirement Statement and Use Cases Summary (List)	Requirements Input - Init1hm2 Use Cases - Init1hm2.pm6	related to metadata for cab2B and Dynamic Extensions Services
Rules/OWL2 Based Inferencing	NA	No Requirement Specified	Cecil Lynch	---	---	---	Formal Requirements Statement	---	---
Seamless integration of Data and Services through workflows	Knowledge Management	Manage & Create Model Metadata Search Models	Anand Basu	Denise	---	C - CBIT Interview	Formal Requirements Statement	Requirements Input - Otherdbw7	Application Engineering
Search for semantics from different View points	Knowledge Management Enterprise Vocabulary	Align Models	Brian Davis	Patrick	---	Patrick	Formal Requirements Statement	Requirements Input - Init1pm3	leverage semantic connections to help users find existing content when browsing or searching; Model repository; Point-of-View browsing
Semantic integration with external communities	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Frank Hartel	Patrick	---	---	Formal Requirements Statement	Requirements Input - Init4pm18	---

Semantic web vs grid tools	Not Defined	---	Sal Mungal	---	---	---	Formal Requirements Statement	---	---
Simplify and streamline recording data semantics	Knowledge Management Environmental Vocabulary	Manage & Create Model Metadata Align Models	Denise Warzel	Patrick	n/a	Shantanu	Formal Requirements Statement; Summary Use Cases	Requirements Input - Init1pm8	Better support for annotating and loading models
SIW Enhancement/Model Validation	Validation Enterprise Vocabulary	part of Manage & Create Metadata Align Models	Sharon Gaheen Sal Mungal	Baris	Baris	Patrick	Formal Requirements Statement and Use Case Summary	Requirements Input - Init1bes4 Requirements Input - Init3bes20 Use Cases - Init1bes4.pm10 Circular References	This set of requirements and use cases is for the ability to validate models against standard models and best practices, such as checking models for cyclic references. It may or may not end up as an SIW enhancement.
SIW: CDE - ObjectClass interdependency	Knowledge Management	Manage & Create Model Metadata	Hannes Niedner	Baris		Patrick	Formal Requirements Statement	Requirements Input - Init1bes8	Need to be able to register java classes that are comprised of CDEs that are associated with different Object Classes - remove the one domain class<->one object class limitation for model registration
SPARQL Endpoint for LexEVS	Knowledge Management	Manage & Create Model Metadata	Jyoti Pathak	---	---	---	Formal Requirements Statement	---	---
Standardized annotations of UML associations names/concepts	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Brian Davis	Shantanu	n/a	Shantanu	Formal Requirements Statement; Develop Use Case for how user envisions this would work.	Requirements Input - Init1sd6	The capability to annotate associations already exists in caDSR. Needs to be incorporated into overall semantic annotations, but more easily than current methods.
Support caB2B Services to integrate data on grid	Knowledge Management Enterprise Vocabulary Transformation	Manage & Create Model Metadata Align Models	Sal Mungal	Denise	---	Mohamed Patrick	Formal Requirements Statement	Requirements Input - Init1dbw6 Use Cases - Init1dbw6.pm8	---
Support for .NET tools	Constraint	Supplementary Specification - use of .NET tools	Tracy Safran	Patrick	---	---	Formal Requirements Statement	Requirements Input - Init1pm15	Services
Support for Curation Workflow Activities	No Requirement defined, most likely it is Knowledge Management	Manage & Create Model Metadata	Saurin Mehta	Denise	---	---	Formal Requirements Statement, high level use cases	---	Novartis curator support

Support for Knowledge Management to Discoveries: Scientific Workflows and Artificial Intelligence	Knowledge Management /Transformation Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Yolanda Gil	Denise	---	Patrick	Formal Requirements Statement, 2-4 Use Cases	Requirements Input - Init3dbw2 Use Case Statements - Init3dbw2.pm21	Wings Semantic Workflows Requirements for caBIG Infrastructure to Support Semantic Workflows; Recommendations for caBIG to Support Semantic Workflows; Use Cases for Semantic Workflows in caBIG historical links: https://wiki.nci.nih.gov/download/attachments/20285848/Requs_caBIG_InfrastructureSupportWorkflows.ppt and https://wiki.nci.nih.gov/download/attachments/20285848/Recommendations_caBIG_SupportSemWorkflows.ppt and https://wiki.nci.nih.gov/download/attachments/20285848/UseCasesForSemanticWorkflowIncaBIG.doc
Support for Reusable Modules/Sections of Forms	Knowledge Management	Manage & Create Model Metadata	Dianne Reeves	Denise	n/a	Patrick	Formal Requirements Statement; High level use cases for Services	Use Cases - Init8pm25.pm24	Make Form Modules reusable
Support for Structured Eligibility	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Search Models Align Models	Christo Andonyadis	Denise	Patrick	Patrick	Formal Requirement Statement and Use Cases Summary	Requirements Input - Init1dbw7 Use Cases - Init1dbw7.pm19	caBIG Community
Support for use of Semantic Web Technologies in caBIG	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Joshua Phillips	Patrick	---	---	---	Requirements Input - Init4pm19	Semantic Web Applications to CTMS Use Cases
Tagging and availability of VCDE approved terminologies	Enterprise Vocabulary	Align Models	Elizabeth Hahn-Dantona	Hua	Hua	---	Formal Requirements Statement	Requirements Input - Init1hm5	Make all VCDE approved terminologies available for model annotations
TCGA AIM-E Integration Use Cases	Knowledge Management	Manage & Create Model Metadata Search Models	Tony Pan Daniel Rubin Paul Mulhern	Shantanu	---	Shantanu	Formal Requirements Statement and Use Cases	Requirements Input - InitotherSD75	This project's aim is to enable the creation of radiology data in a standardized manner, and to allow for the integration of this data with genomic and clinical data TCGA AIM-E Enterprise Use Cases TCGA AIM Data Service Directors Brief Oct 2009 Wiki Overview of Architectural and Ontological Issues in Quantitative Imaging presentation Imaging Use Case - Cooperative Group Support

Testing conformance with conformance profiles	Knowledge Management	Manage & Create Model Metadata	John Koisch Paul Boyes Linda Schmandt	Baris	---	---	---	Requirements Input - Init3bes19	caBIG Community - Support for ECCF Use Cases
Transform ability amongst Research and Clinical Datatypes	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Brian Davis	Shantanu	n/a	Shantanu	Formal Requirements Statement	Requirements Input - Init1sd5 Use Cases - Init1pm16.u (ISO 21090)	Services for data integration
Transformation Services	Knowledge Management /Transformation	Manage & Create Model Metadata	Denise Warzel	Patrick	Baris	Patrick	Formal Requirements Statement; Summary Use Cases	Requirements Input - Init1pm14 Use Cases - Init1pm16.pm4 (ISO 21090)	Services for data integration
UML Modeling in different "Layers"	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Brian Davis	Shantanu	n/a	Shantanu	Formal Requirements Statement	Requirements Input - Init6sd12	---
US Department of Defense (USDOD)	NA	No Requirement Specified	Nancy Lawler	---	---	---	Formal Requirements Statement	---	Requirements around need for secure content
Usage Tracking/Statistics for Semantic Infrastructure Services	Constraint	In supplementary specification Model Admin. Requirement	Ken Buetow	---	---	---	---	---	---
USHIK and metadata reuse	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Frank Hartel	Patrick	---	---	Formal Requirements Statement	Requirements Input - Init1pm17	---
Validation of harmonization	Knowledge Management Enterprise Vocabulary	Manage & Create Model Metadata Align Models	Sal Mungal	---	---	---	Formal Requirements Statement	---	Assertion test
Visualization tools for existing models	Knowledge Management	Visualize Models	Denise Warzel	Baris	---	---	---	Requirements Input - Init1bes11	Improve browsing of registered models with visualization tools



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