

# 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](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](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](#)
- [SI Service Categories derived from initial use case analysis](#)
- [Supplemental Requirements Input page](#)
- [Requirements Elicitation Stakeholder Participants](#)
- [Requirements Elicitation Progression](#)

## 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                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------|--------------------------------------------|---------------|-------------------|------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">21090 Datatype Support</a>                                        | Knowledge Management Enterprise Vocabulary | Manage & Create Model Metadata Align Models                       | <a href="#">Christo Andonyadis</a>         | Patrick       | ---               | ---              | Formal Requirements Statement, Summary Use Cases        | <a href="#">Requirements Input - Init1pm16 (ISO 21090) Use Cases - Init1pm16.u (ISO 21090)</a>                                                                                             | Services for data integration caBIG Community - (Avinash Shanhbag CBITT Leader)                                                                                                                            |
| <a href="#">Ability to share a link to a CDE</a>                              | Knowledge Management                       | Manage & Create Model Metadata                                    | <a href="#">Konrad Rokicki</a>             | Baris         | n/a               | Patrick          | Formal Requirement Statement and Use Case Summary       | <a href="#">Requirements Input - Init1bes10 Use Cases - Init1bes10.pm17</a>                                                                                                                | This feature already exists, clarify use cases to ensure that all are supported <a href="#">Retrieving Content for CDEs</a>                                                                                |
| <a href="#">Ad Hoc Reporting features</a>                                     | Knowledge Management                       | Manage & Create Model Metadata                                    | <a href="#">Denise Warzel</a>              | Shantanu      | n/a               | ---              | Summary Requirements statement                          | <a href="#">Requirements Input - Init1sd15</a>                                                                                                                                             | Provide ability to generate customized reports from metadata content                                                                                                                                       |
| <a href="#">Allow users to bulk load unannotated content to MDR</a>           | Knowledge Management                       | Manage & Create Model Metadata                                    | <a href="#">Denise Warzel Diann Reeves</a> | Baris         | Baris             | ---              | Formal Requirements Statement                           | <a href="#">Requirements Input - Init1bes13</a>                                                                                                                                            | Models                                                                                                                                                                                                     |
| <a href="#">Automate</a>                                                      | Knowledge Management                       | Manage & Create Model Metadata                                    | <a href="#">Sal Mungal</a>                 | Patrick       | n/a               | Patrick          | Formal Requirements Statement and 2-4 Summary Use Cases | <a href="#">Requirements Input - Init1pm9 Use Cases - Init1pm9.pm16 - Automate Use Cases - Init1pm7.SD200-Automate caDSR model submission Use Cases - Otherhm2.pm13 - Conditional CDEs</a> | Automate creating CDEs from skip patterns of Forms, workflow to automate annotation and loading of Models                                                                                                  |
| <a href="#">Automate &amp; Streamline caDSR Model Submission Process</a>      | Knowledge Management                       | Manage & Create Model Metadata                                    | <a href="#">Bilal Elahi</a>                | Patrick       | n/a               | Shantanu         | Formal Requirements Statement and 2-4 Use Cases         | <a href="#">Requirements Input - Init1pm7 Use Cases - Init1pm7.SD200.u</a>                                                                                                                 | 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 |
| <a href="#">Automate Loading process:</a>                                     | Knowledge Management                       | Manage & Create Model Metadata                                    | <a href="#">Ashwin Mathur</a>              | Patrick       | n/a               | Shantanu         | Formal Requirements Statement and 2-4 Use Cases         | <a href="#">Requirements Input - Init1pm6 Use Cases - Init1SDpm6.100.u</a>                                                                                                                 | Models                                                                                                                                                                                                     |
| <a href="#">Best Practices for Using Standardized/Preferred Relations</a>     | Constraint                                 | Supplemental Specification Requirement on Ontology Best Practices | <a href="#">Jyoti Pathak</a>               | Shantanu      | Shantanu          | ---              | Formal Requirements Statement                           | <a href="#">Requirements Input - Init5sd9</a>                                                                                                                                              | ---                                                                                                                                                                                                        |
| <a href="#">Brain Tumor in silico study: Pathology /Radiology data models</a> | Knowledge Management Enterprise Vocabulary | Manage & Create Model Metadata Search Models Align Models         | <a href="#">Joel Saltz</a>                 | Patrick       | Shantanu          | Shantanu         |                                                         | <a href="#">Requirements Input - Init6pm23 Use Cases - Init6pm23.u</a>                                                                                                                     | Integration Use Cases                                                                                                                                                                                      |

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

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

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

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

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

|                                                                                |                                                            |                                                           |               |          |       |                    |                                                                   |                                                           |                                                                                                                                                                                                                                                                                              |
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| 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<br><div>historical link:<br/><a href="https://wiki.nci.nih.gov/download/attachments/20285848/04-DIJ44%281%29+2459+qxd.pdf">https://wiki.nci.nih.gov/download/attachments/20285848/04-DIJ44%281%29+2459+qxd.pdf</a></div> |
| 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                            | ---                                                                                                                                                                                                                                                                                          |

|                                                             |                                                                |                                                 |                             |          |       |                 |                                                                                         |                                                                                                                        |                                                                                                                                                                                                                         |
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| 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<br>Sal Mungal | Baris    | Baris | Patrick         | Formal Requirements Statement and Use Case Summary                                      | Requirements Input - Init1bes4<br>Requirements Input - Init3bes20<br>Use Cases - Init1bes4.pm10<br>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<br>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                                                                                                                                                                                                |

|                                                                                                   |                                                            |                                                           |                                                                                          |          |         |          |                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Support for Knowledge Management to Discoveries: Scientific Workflows and Artificial Intelligence | Knowledge Management /Transformation Enterprise Vocabulary | Manage & Create Model Metadata Align Models               | <a href="#">Yolanda Gil</a>                                                              | Denise   | ---     | Patrick  | Formal Requirements Statement, 2-4 Use Cases                     | <a href="#">Requirements Input - Init3dbw2 Use Case Statements - Init3dbw2.pm21</a> | <p>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</p> <div> <p>historical links:<br/> <a href="https://wiki.nci.nih.gov/download/attachments/20285848/Requs_caBIG_InfrastructureSupportWorkflows.ppt">https://wiki.nci.nih.gov/download/attachments/20285848/Requs_caBIG_InfrastructureSupportWorkflows.ppt</a> and<br/> <a href="https://wiki.nci.nih.gov/download/attachments/20285848/Recommendations_caBIG_SupportSemWorkflows.ppt">https://wiki.nci.nih.gov/download/attachments/20285848/Recommendations_caBIG_SupportSemWorkflows.ppt</a> and<br/> <a href="https://wiki.nci.nih.gov/download/attachments/20285848/UseCasesForSemanticWorkflowIncaBIG.doc">https://wiki.nci.nih.gov/download/attachments/20285848/UseCasesForSemanticWorkflowIncaBIG.doc</a> </p> </div> |
| Support for Reusable Modules/Sections of Forms                                                    | Knowledge Management                                       | Manage & Create Model Metadata                            | <a href="#">Dianne Reeves</a>                                                            | Denise   | n/a     | Patrick  | Formal Requirements Statement; High level use cases for Services | <a href="#">Use Cases - Init8pm25.pm24</a>                                          | Make Form Modules reusable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Support for Structured Eligibility                                                                | Knowledge Management Enterprise Vocabulary                 | Manage & Create Model Metadata Search Models Align Models | <a href="#">Christo Andonyadis</a>                                                       | Denise   | Patrick | Patrick  | Formal Requirement Statement and Use Cases Summary               | <a href="#">Requirements Input - Init1dbw7 Use Cases - Init1dbw7.pm19</a>           | caBIG Community                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">Support for use of Semantic Web Technologies in caBIG</a>                             | Knowledge Management Enterprise Vocabulary                 | Manage & Create Model Metadata Align Models               | <a href="#">Joshua Phillips</a>                                                          | Patrick  | ---     | ---      | ---                                                              | <a href="#">Requirements Input - Init4pm19</a>                                      | <a href="#">Semantic Web Applications to CTMS Use Cases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">Tagging and availability of VCDE approved terminologies</a>                           | Enterprise Vocabulary                                      | Align Models                                              | <a href="#">Elizabeth Hahn-Dantona</a>                                                   | Hua      | Hua     | ---      | Formal Requirements Statement                                    | <a href="#">Requirements Input - Init1hm5</a>                                       | Make all VCDE approved terminologies available for model annotations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TCGA AIM-E Integration Use Cases                                                                  | Knowledge Management                                       | Manage & Create Model Metadata Search Models              | <a href="#">Tony Pan</a><br><a href="#">Daniel Rubin</a><br><a href="#">Paul Mulhern</a> | Shantanu | ---     | Shantanu | Formal Requirements Statement and Use Cases                      | <a href="#">Requirements Input - InitotherSD75</a>                                  | <p>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</p> <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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



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