

Semantic Infrastructure Requirements Progression

Semantic Infrastructure Concept of Operations Links

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Initiative	Forum Topic	Confluence Migration	Analyst/Participant Interview	Business Analyst Use Case	User Story
1	ICR IRWG Requirements - model loading	Migrated Request - Init1pm1	---	Use Cases - Init1bes1. pm9	Domain User Story 3 Domain User Story 6 Metadata a Specialist User Story 2 Metadata a Specialist User Story 4 Developer User Story 1
1	Integrate all caDSR tools	Migrated Request - Init1bes5	---	---	---
1	Integrated CDE Tool	Migrated Request - Init1bes6	Interview - Init1bes6	---	---
1	ICR-caIntegrator2	Migrated Request - Init1pm24	---	Use Cases - Init1pm24. pm15	Domain User Story 5
1	Dynamic CDE Browser	Migrated Request - Init1bes7	Interview - Init1bes7	---	---
1	Need for a Content Driven (Clinician Friendly) Browser	Migrated Request - Init1pm2	---	---	---
1	ICR IRWG requirements - models and algorithms	Migrated Request - Init1hm1	---	---	---
1	CDE versions, timestamps and other metrics	Migrated Request - Init1bes6	Interview - Init1bes6	---	---
1	Search for semantics from different View points	Migrated Request - Init1pm3	---	---	---
1	Improve Semantic Query Mechanism	Migrated Request - Init1hm3	---	---	---

1	CDEs from Man. curation, UML models and CRFs	Migrated Request - Init1bes9	---	Use Cases - Init1bes9. pm11	Forms User Story 1 Metadata Specialist User Story 4
1	Reuse of metadata	Migrated Request - Init1hm4	Interview - Init1hm4	---	---
1	Cross-cutting semantic searches	Migrated Request - Init1pm4	---	---	---
1	SIW: CDE - ObjectClass interdependency	Migrated Request - Init1bes8	---	---	---
1	Compare Semantic data	Migrated Request - Init1bes1	Interview - Init1bes1	Use Cases - Init1bes1. pm9	
1	SIW Enhancement	Migrated Request - Init1bes4	Interview - Init1bes4	Use Cases - Init1bes4.u	
1	Visualization tools for existing models	Migrated Request - Init1bes11	---	---	---
1	Data rollback functionality	Migrated Request - Init1pm5	---	Use Cases - Init1pm5.u	---
1	Automate Loading process:	Migrated Request - Init1pm6	---	Use Cases - Init1SDpm6.100.u	Developer User Story 1
1	Automate & Streamline caDSR Model Submission Process	Migrated Request - Init1pm7	---	Use Cases - Init1pm7. SD200.u	Developer User Story 1
1	Simplify and streamline recording data semantics	Migrated Request - Init1pm8	---	---	---
1	Tagging and availability of VCDE approved terminologies	Migrated Request - Init1hm5	---	---	---
1	Automate	Migrated Request - Init1pm9	---	Use Cases - Init1pm9. pm16 - Automate Use Cases - Init1pm7. SD200-Automate caDSR model submission Use Cases - Otherhm2. pm13 - Conditional CDEs	Developer User Story 1
1	Allow users to bulk load unannotated content to MDR	Migrated Request - Init1bes13	Interview - Init1bes13	---	---
1	Ad Hoc Reporting features	Migrated Request - Init1sd15	---	---	---
1	Downloading all CDEs	Migrated Request - Init1bes2	Interview - Init1bes2	---	---
1	Customizable Download	Migrated Request - Init1bes3(UCD)	---	---	---
1	Ability to share a link to a CDE	Migrated Request - Init1bes10	---	Use Cases - Init1bes10. pm17	---
1	Expose underlying Tool functionality as Services	Migrated Request - Init1pm10	---	Use Cases - Init1pm10. pm20	---
1	Reuse or create new data elements at runtime	Migrated Request - Init1hm2	Interview - Init1hm2	Use Cases - Init1hm2. pm6	Domain User Story 5

1	CQL 2.0 Enhancements	Migrated Request - Init1sd2	---	Use Cases - INIT1SD2. pm7	---
1	ICR IRWG requirements - cde-cde and metadata mapping	Migrated Request - Init1sd20	---	---	---
1	caDSR or rather MDR requirements	Migrated Request - Init1pm12	---	---	---
1	LS DAM refinement and utilization	Migrated Request - Init1pm11	---	Use Cases - Init1pm11. u	---
1	MD Anderson Federated Registries	Migrated Request - Init1dbw4	---	---	---
1	cancerGrid Federated Registries	---	---	Formal Requirements Statement; Summary of Services Use Cases (see Michael Riben)	---
1	Medidata	Migrated Request - Init1pm13	Interview - medidata_notes_20081211.doc historical link: https://wiki.nci.nih.gov/download/attachments/24249916/medidata_notes_20081211.doc?version=1	Use Cases - Init1pm13. pm14	---
1	Support caB2B Services to integrate data on grid	Migrated Request - Init1dbw6	---	Use Cases - Init1dbw6. pm8	Domain User Story 1 Domain User Story 2 Domain User Story 3
1	Metadata repositories should contain corresponding metadata	---	---	---	---
1	Policies/protocols that will ensure concurrent registration of model/metadata	---	---	---	---
1	Transformation Services	Migrated Request - Init1pm14	Interview - Init1pm16 (ISO 21090)	Use Cases - Init1pm16. u (ISO 21090)	---
1	Mapping/transformation support for ISO21090 data types	Migrated Request - Init1bes12	Interview - Init1pm16 (ISO 21090)	Use Cases - Init1pm16. u (ISO 21090)	---
1	Support for .NET tools	Migrated Request - Init1pm15	---	---	---
1	HL7 v3 data types	Migrated Request - Init1pm16 (ISO 21090)	Interview - Init1pm16 (ISO 21090)	Use Cases - Init1pm16. u (ISO 21090)	---
1	21090 Datatype Support	Migrated Request - Init1pm16	Interview - Init1pm16 (ISO 21090)	Use Cases - Init1pm16. u (ISO 21090)	---
1	USHIK and metadata reuse	Migrated Request - Init1pm17	---	---	---
1	reqs sharing	Migrated Request - Init1SD40	---	Genzyme - Will be handled by CBIIT Team	---
1	HL7 MDR Requirements	Migrated Request - Init1dbw3	---	---	---

1	Standardized annotations of UML associations names/concepts	Migrated Request - Init1sd6	---	---	---
1	CDE service to return enumerations by reference	Migrated Request - Init1hm6	---	Use Cases - Init1hm6. pm18	---
1	Transform ability amongst Research and Clinical Datatypes	Migrated Request - Init1sd5	Interview - Init1pm16 (ISO 21090)	Use Cases - Init1pm16. u (ISO 21090)	---
1	Interoperate on Address using ISO 21090 datatypes	Migrated Request - Init1pm16 (ISO 21090)	Interview - Init1pm16 (ISO 21090)	Use Cases - Init1pm16. u (ISO 21090)	---
1	Validation of harmonization	---	---	---	---
1	Semantic web vs grid tools	---	---	---	---
1	TCGA Integration Use Cases	Requirements Input - InitotherSD75	Requirements Input - InitotherSD75	TCGA Enterprise Use Cases	—
1	Harmonize and reuse metadata across different terminologies	Migrated Request - Init1dbw11	—	—	—
1	US Department of Defense (USDOD)	—	—	—	—
1	HHS OS - Data sharing	—	—	ppt links semantic.data.gov discussion	—
1	Usage Tracking/Statistics for Semantic Infrastructure Services	—	—	—	—
1	Curator Harmonization Activities	—	Interview - Init1dbw12	—	—
1	HHS OS - Data.gov	—	—	—	—
1	Support for Curation Workflow Activities	—	—	—	—
1	Federated Metadata Registries	—	—	—	—
2	Enabling AutoCompletion In Creating Ontologies	Migrated Request - Init1sd7	Interview - Init1sd7	—	—
3	Formal representation of policies and regulations	Migrated Request - Init3sd1	—	—	—
3	Conformance Profiles	Migrated Request - Init3bes14	Interview - Init3bes14	—	—
3	Conformance Profile Browser	Migrated Request - Init3bes16	—	—	—
3	Conformance Profile Registry (or Repository) and Format	Migrated Request - Init3bes17	—	—	—
3	Conformance Profile Editor	Migrated Request - Init3bes18	—	—	—
3	Testing conformance with conformance profiles	Migrated Request - Init3bes19	—	—	—
3	Support for Knowledge Management to Discoveries: Scientific Workflows and Artificial Intelligence	Migrated Request - Init3dbw2	Interview - Init3dbw2	Use Cases - Init3dbw2. pm21	—
3	caBIG Rules Engine White Paper v4 historical link: https://wiki.nci.nih.gov/download/attachments/24249916/medidata_notes_20081211.doc?version=1	—	—	—	—

4	SPARQL Endpoint for LexEVS	---	---	---	---
4	Semantic integration with external communities	Migrated Request - Init4pm18	---	---	---
4	Support for use of Semantic Web Technologies in caBIG	Migrated Request - Init4pm19	---	---	---
4	ICR IRWG requirements - caGrid querying	Migrated Request - Init4sd16	---	---	---
4	RDF triple store backend for LexEVS	Migrated Request - Init4hm1	Interview - Init4hm1	Use case - Init4hm1	---
4	NLP Integration	Migrated Request - Init4sd8	---	---	---
4	Rules/OWL2 Based Inferencing	---	---	---	---
5	LexEVS Enhancements based on CTS 2 Service Functional Model	---	---	---	---
5	LEXEvs: capture the need for new content development in NCI Thesaurus	Migrated Request - Init5mk1	---	---	---
5	LexEVS Enhancements	---	---	---	---
5	LexWiki enhancement	Migrated Request - Init4hm1	Interview - Init4hm1	---	---
5	LexWiki Tooling versioning management and upgrade mechanism	Migrated Request - Init5pm20	---	---	---
5	Debugging of Terminology Mappings	Migrated Request - Init5pm21	---	---	---
5	Integration of multiple terminologies	Migrated Request - Init5pm22	---	---	---
5	Integration of LexEVS valuesets management with LexWiki	Migrated Request - Init5hm1	---	---	---
5	NCI level vocabulary services for Diseases and Interventions	Migrated Request - Init1hm2	---	Use Cases - init1hm2. pm22	---
5	Best Practices for Using Standardized/Preferred Relations	Migrated Request - Init5sd9	Interview - Init5sd9	---	---
5	FDA	---	---	---	---
5	Ontology enabled indexing of literature	Migrated Request - Init1sd13	---	Use Cases - INIT1SD13.pm23	---
6	Clarification of the model madness, please	Migrated Request - Init6sd10	---	---	---
6	Extend terminology development to new populations/missions	Migrated Request - Init6sd11	---	---	---
6	ICR IRWG requirements - metamodel for LIMS	Migrated Request - Init6sd30	---	---	---
6	Brain Tumor in silico study: Pathology/Radiology data models	Migrated Request - Init6pm23	---	Use Cases - Init6pm23. u	Domain User Story 3 Domain User Story 5
6	UML Modeling in different "Layers"	Migrated Request - Init6sd12	---	---	---

6	Canada Infoway Clinical Concept ppt	—	—	—	—
8	CDISC SHARE	Migrated Request - Otherdbw1	—	—	—
8	Generation of Forms	Migrated Request - Otherhm1	—	Use Cases - Otherhm1. pm12	—
8	Conditional CDEs	Migrated Request - Otherhm2	—	Use Cases - Otherhm2. pm13	—
[8	Support for Structured Eligibility	Migrated Request - Init1dbw7	—	Use Cases - Init1dbw7. pm19	—
8	caEHR	—	—	—	—
8	ICRI WG Use Case Scenarios	Migrated Request - Otherdbw5	—	ICRI WG Use Case Scenarios	—
8	LS and CS Business Architecture Modeling Use Cases	—	—	—	—
8	Seamless integration of Data and Services through workflows	Migrated Request - Otherdbw7	—	—	—
8	Contractor and Software Vendor Application Development Support	Migrated Request - Init1dbw8	Interview - Init1dbw8	---	---
8	Federated Data w/single source of 'truth'	Migrated Request - Otherdbw4	—	—	—
8	CTMS Interoperability Scenarios: Maximize reuse, Minimize development	Migrated Request - Otherdbw2	Interview - Otherdbw2	---	---
8	Programmatic access to 'Materials and Methods' section of a paper	Migrated Request - Otherdbw3	—	Use Cases - Otherdbw3. pm23	—
8	Registration of Models in GME	Migrated Request - Init8bes15	—	—	—
8	LexEVS "Portal" for use by other apps	—	—	—	—
8	Support for Reusable Modules/Sections of Forms	—	—	Use Cases - Init8pm25. pm24	—



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