

LexEVS 6.0 Scope Document

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Document Information

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Sign off	Date	Role	CBIIT or Stakeholder Organization
Larry Wright	5/6/2010	NCI PO & EVS Product Manager	CBIIT: NCI EVS & Semantic Infrastructure
Jason Lucas	5/6/2010	EVS Software Project Manager	
Sherri de Coronado	5/7/2010	NCI PO	CBIIT: NCI EVS & Semantic Infrastructure

The **purpose of this document** is to collect, analyze, and define high-level needs and features of the National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT) caCORE LexEVS Release 6.0. This document focuses on the functionalities proposed by the product stakeholders and target users in order to make it a better product. The use-case and supplementary specifications document will detail how the framework will fulfill these needs.

Vision and Needs

The **objective of this release** of the LexEVS API is to design and construct a reference implementation of the CTS2 specification, leveraging LexEVS as the basis for the design and code base.

This release will address support for value sets, mappings between code sets, support for creation of local extensions to code sets and support related to content creation and editing.

Current Solution

LexEVS 5.1 currently supports much of the functionality called for by the CTS2 Specification.

Proposed Solutions

LexEVS 6.0 will provide the additional functionality to enhance LexEVS to meet the goals of a CTS2 Reference Implementation and requirements of the user communities.

Functional Requirements

Each enhancement, modification or new feature is described in detail below.

GForge number (hyperlinked)	Brief description of functional requirement (enhancement or new feature)	Status (Approved or Proposed)	Iteration
26638	OBO Loader update for LexEVS 6.0	Approved	---
26640	NCIt/OWL loader update for LexEVS 6.0	Approved	---

26641	Query enhancements for CTS2 Implementation LexEVS 6.0	Approved	---
26642	XML Exporter update for LexEVS 6.0	Approved	---
26643	NCIm Loader updates for LexEVS 6.0	Approved	---
26644	HL7 loader update for LexEVS 6.0	Approved	---
26645	Coding Scheme Supplement Changes for LexEVS 6.0	Approved	---
26646	Usage context enhancements for LexEVS 6.0	Approved	---
26648	Associations (maps) enhancements for LexEVS 6.0	Approved	---
26649	Concept Domain enhancements for LexEVS 6.0	Approved	---
26650	Value Set Enhancements for LexEVS 6.0	Approved	---
26651	Versioning enhancements for LexEVS 6.0	Approved	---
26652	XML loader update for LexEVS 6.0	Approved	---
26653	ICD10 loader update for LexEVS 6.0	Approved	---
26654	ICD 9 loader update for LexEVS 6.0	Approved	---
26655	UMLS loader update to support LexEVS 6.0	Approved	---
26656	Database changes to support LexEVS 6.0	Approved	---
26657	LexGrid model changes for LexEVS 6.0	Approved	---
26658	LexBIG model changes for LexEVS 6.0	Approved	---
26659	DAO layer changes for LexEVS 6.0 CTS2 Implementation	Approved	---
27829	Text loader update for LexEVS 6.0	Approved	---
27831	Manifest loader update for LexEVS 6.0	Approved	---
27838	Notification enhancements for LexEVS 6.0	Approved	---
27839	OBO Exporter update for LexEVS 6.0	Approved	---
27840	Associations Exporter for LexEVS 6.0	Approved	---
27841	Protege Frames Loader update for LexEVS 6.0	Approved	---
27842	Loader Preferences Loader update for LexEVS 6.0	Approved	---
27843	Authoring enhancements for CTS2 Implementation LexEVS 6.0	Approved	---
27844	ISO 21090 Data Type Support enhancements for CTS2 Implementation LexEVS 6.0	Approved	---
27845	Grid Service enablement CTS2 Implementation LexEVS 6.0	Approved	---
28166	GEM loader update for LexEVS 6.0	Approved	---
28167	ClaML Loader update for LexEVS 6.0	Approved	---
21720	Load all MRMAP data	Approved	---
23643	Java 1.6	Approved	---
26329	Control the setting of isActive via Loader preferences	Approved	---
27026	Modify Meta Browser Extension to support browsing and searching of other applicable source hierarchies.	Approved	---
24699	Need to be able to identify all supported properties of a particular property type.	Approved	---
25509	Convert codes in entity description of anonymous class to names.	Approved	---
26627	Ability to keep database load if indexes fail.	Approved	---
26637	Page CodedNodeGraph Results	Approved	---
26683	Option to include or exclude entity types in association search.	Approved	---
26709	Examine use of LexBIG entity status	Approved	---
28120	Provide XSLT transformations for backwards compatability of LexBIG XML	Approved	---
24191	A call for requirements for the HL7.OWL loader with an emphasis on top nodes	Approved	---
28369	LexEVS 6.0 Load Balancing	Approved	---
23324	Option to include or exclude anonymous concepts.	Approved	---
28420	OWL/RDF Exporter for LexEVS 6.0	Approved	---

Functional Bug Fixes

Each bug fix included in this release is described in detail below.

GForge number (hyperlinked)	Brief description of bug	Status (Approved or Proposed)	Iteration
21935	OWL loader processing <owl:Restriction> associations incorrectly	Approved	---
22036	Focus code data is not found when referencing external coding scheme	Approved	---
24037	Include immediate parent/children when Value Domain Definition has transitiveClosure as 'false' and referenceAssociation is present	Approved	---
24538	"Pages" links not being built correctly in LexEVS caCORE SDK Service	Approved	---
25042	OBI load shows odd has_curation_status property	Approved	---
25325	The isDefined column in the entity table should accurately reflect the source data	Approved	---
26072	Incorrect Hibernate mappings of Oracle CLOB database type in caCORE SDK functions	Approved	---
26975	PropertyLinks won't load without namespace being supplied	Approved	---
26976	Loader should not shut down on a duplicate property	Approved	---
26977	Loader should not shut down on missing propertylink reference	Approved	---
22296	OWL loader does not load concepts with paranthesis	Approved	---
25681	Problem loading MeSH and Spanish version of SNOMED	Approved	---
24967	Null-Pointer Exception Thrown when no value-Domain content loaded.	Approved	---
23770	OBI.owl loading - missing property "has curation status" for concepts	Approved	---
23806	OBI.owl loading - Incorrect information as value to the property "imported from"	Approved	---
19406	Results not Deserializing Properly when using QueryModifiers on CQL Queries	Approved	---

Non-Functional Requirements

This section describes in detail all the related requirements which must be met for this release but do not add functionality. These requirements are included in the scope and project plan due to level of effort or relative importance to the overall success of delivery of the release.

GForge number (hyperlinked)	Brief description of non-functional requirement	Status (Approved or Proposed)	Iteration
26660	LexEVS 6.0 Project Charter	Approved	---
27856	BDA Compliance Package update for LexEVS 6.0	Approved	---
27857	Release Notes for LexEVS 6.0	Approved	---
27859	LexEVS Product Documentation (Wiki Guides) for LexEVS 6.0	Approved	---
27860	LexEVS NCI/NCICB website updates for LexEVS 6.0	Approved	---
27861	LexEVS 6.0 ECCF Documentation	Approved	---
27862	LexEVS 6.0 System and Software Design Document	Approved	---
27863	LexEVS 6.0 Design Review Package	Approved	---
27864	LexEVS 6.0 Deliverable Readiness Review Package	Approved	---
28159	6.0 Deployment to Dev Tier	Approved	---
28161	6.0 Deployment to QA Tier	Approved	---
28162	6.0 Deployment to Stage Tier	Approved	---
28163	Project plan for 6.0	Approved	---
28164	6.0 Test Plan & Test Results	Approved	---
28165	6.0 Use Case Document	Approved	---
28168	6.0 ARC Document	Approved	---
28169	6.0 Prototype 1	Approved	---
28170	6.0 Prototype 2	Approved	---

28172	6.0 Prototype 3	Approved	---
28173	6.0 Alpha 1	Approved	---
28174	6.0 Alpha 2	Approved	---
28175	6.0 Deployment to Production Tier	Approved	---
28177	6.0 Production Announcements	Approved	---

General Support Activities

This section describes in detail all the related activities which must be performed for this release but do not add functionality. These activities are included in the scope and project plan due to level of effort or relative importance to the overall success of delivery of the release.

GForge number (hyperlinked)	Brief description of general support activity	Status (Approved or Proposed)	Iteration
	LexEVS Level 2 Support - integration of help and training to the user community.	Approved	---

Stakeholder Summary

CBIIT Staff/Contractor Name	Role	Responsibilities
George Komatsoulis	NCICB Application Infrastructure	Oversees NCICB Application Infrastructure
Avinash Shanbhag	NCICB Application Infrastructure	Oversees NCICB caCORE Software Engineering
Larry Wright/ Sherri de Coronado	EVS Product Managers	Directs EVS Projects
Denise Warzel	CORE Product Line Manager	Trans-CORE requirement coordination
Gilberto Fragoso	Associate Director EVS Infrastructure	Technical Direction
Jason Lucas	EVS Software Project Manager	Project schedule and task management for EVS team
Craig Stancl	Mayo Clinic Technical Lead	Technical Direction and Implementation
Traci St.Martin	Mayo Clinic Project Manager	Project schedule and task management
Larry Brem	SAIC caBIG ARCH and VCDE Technical Program Manager	Contract governance

Technical Environment

This product uses the following technical components which have been derived from the current [NCICB Technology Stack](#).

Component	Description
Client Interface	NCI Browsers
Application Server	JBoss 4.0.5.GA
Database Server	MySQL 5.0.51b
Operating System	Red Hat Enterprise Linux AS release 4 (Nahant Update 8)
[EVS:Other]	---

Product Dependencies

This release is dependent on the caCORE components or products documented in the [CORE Product Dependency Matrix](#).

Out of Scope Items

Items that are out of scope were evaluated as part of the initial scoping activities for this release, and subsequently not included in the final approved scope. These items are also documented in the cumulative backlog of requirements found on the product GForge site. They include out-of-scope functional requirements (enhancements or new features), bug fixes, non-functional requirements, and general support activities.

GForge number (hyperlinked)	Brief description of item moved from the in-scope section with brief explanation added of why it was not included in this release	Iteration during which the item was removed from in-scope
21880	Make sample programs (in the examples folder) runnable under both local and distributed modes. Deferred due to low priority.	Inception
22644	Need to be able to uniquely identify the coding scheme to which a concept belongs. Deferred due to low priority.	Inception
22877	MedDRA loading into LexEVS. Deferred due to low priority.	Inception
24812	Spruce up MetaDataLoader GUI. Deferred due to low priority.	Inception
25071	Enhance LexBIG query API to fetch AssociationData objects. Deferred due to low priority.	Inception
27164	Better validation on restrictions. Deferred due to low priority.	Inception
28147	Need an option to exclude the focused node itself from ResolvedConceptReferenceList when resolving a CNG. Deferred due to low priority.	Inception
20661	Ontology for Genetic Interval hierarchy does not match up Protege. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
20665	ECG Ontology missing Description, Date, Source and Creator fields. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
20684	Can not compute root node for OBI version v1.0.1423. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
21336	Lucene Max Clause Count exceeded on broad NCI MetaThesaurus RegExp Restrictions. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
21739	CodedNodeGraph resolveAsList distributed method encountered Java heap space error. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
21740	Heap space error on Doubpe Metaphone MetaThesaurus query. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
23598	REST API Features. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
23611	LexEVS Value Domain Support to include persistence of resolved value domain content. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
25945	Add methods to ResolvedConceptReferencesIterator for supporting communications with client applications. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
26628	Ability to query for inferred data - implement ability to reason. Deferred - This item has been discussed and is not an issue for 6.0.	Inception
20653	Anonymous class hierarchy with unions not showing up correctly. Deferred due to priority.	Inception
27849	LexEVS 5.0 Silver Level Review. Out of Scope - Compatibility Review process change.	Inception
27854	LexEVS 6.0 Silver Level Compatibility Review Submission Package. Out of Scope - Compatibility Review process change.	Inception
	CTS2 Semantic Profiles: Developing Terminology Profile, HL7 Terminology Profile	Inception

Document History

Item	Information
Document Version:	Click the Info tab. View the Recent Changes or click the link to view the page history.
Last Modified:	Refer to the first line displayed in the document window.

Project GForge site:	LexEVS GForge project Docs archive , Files archive
Most current version:	Unless the display includes a notice that you are viewing a previous version, you are viewing the most current version of this Scope Document for the release indicated in the title.
Revision history:	Click the Info tab. In the Recent Changes area, click the link to view the page history.
Review history:	Click the Info tab. In the Recent Changes area, note the developer who made each change and the date and time. Refer to the Key People Directory for their roles. Click the link to view any page or to view the page history, and then click the link for a page. When the page opens, view the comments and changes made in that version.
Related documents:	Confluence Wiki documents: LexEVS 6.0 Development Documents GForge archive documents (deliverables) (LexEVS Project Documents 6.0)

Project Information

CBIIT Management	Role	Responsibilities
Larry Wright/ Sherri de Coronado	Co-Product Managers	Oversees development of the product: features, functions, definition of stakeholders, priorities within the scope, timeframe for release
Avinash Shanbhag	Engineering Manager	Oversees NCICB caCORE software engineering practices, conducts design reviews, guides technical development
Denise Warzel	Product Line Manager	Oversees NCICB caCORE product line. Responsible for overall product integration, major and minor release cycles. Supports Product Manager.