

LexEVS 6.1 Scope Document

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Document Information
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Sign off	Date	Role	CBIIT or Stakeholder Organization

The **purpose of this document** is to collect, analyze, and define high-level needs and features of the National Cancer Institute Center for LexEVS Release 6.1. This document focuses on the functions 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 provide a CTS2 compliant REST API, Enhanced Performance and new loaders.

Functional Requirements

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

JIRA number (hyperlinked)	Brief description of functional requirement (enhancement or new feature)	Status (Approved or Proposed)	Iteration
LEXEVS-539	CTS2 REST CodeSystemVersionCatalogEntry		
LEXEVS-540	CTS2 REST EntityDescription		
LEXEVS-541	CTS2 REST Association		
LEXEVS-542	CTS2 REST ValueSetDefinition		
LEXEVS-543	CTS2 REST ResolvedValueSet		
LEXEVS-544	CTS2 REST MapCatalogEntry		
LEXEVS-545	CTS2 REST MapVersionCatalogEntry		
LEXEVS-546	CTS2 REST MapEntry		
LEXEVS-547	LexEVS Enhancement for CTS2 - Entity Query Across Code System		
LEXEVS-548	LexEVS Performance Enhancement - Implement a persistence mechanism for resolved Value Sets		
LEXEVS-549	LexEVS Performance Enhancement - Performace Improvement of Hierarchy Traversal		
LEXEVS-550	LexEVS Performance Enhancement - Search Performance (Contains)		
LEXEVS-551	LexEVS Loader Enhancement - MedDRA Loader		

LEXEVS-552	LexEVS Loader Enhancement - OWL2 Loader		
LEXEVS-553	LexEVS Loader Enhancement - HL7 MIF Loader		

Functional Bug Fixes

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

JIRA number (hyperlinked)	Brief description of bug	Status (Approved or Proposed)	Iteration
LEXEVS-444	Trying to load NCIt to ICD9 MRMAP file, get error		
LEXEVS-495	ICD9 GEMS map throws java.lang.NullPointerException		
LEXEVS-506	Missing database index for Metathesaurus		
LEXEVS-527	LoadMetaBatch throws illegal character error		
LEXEVS-514	OWL loader puts property comments on every property value		
LEXEVS-533	SNOMED Loader does not build Transitivity Table		
LEXEVS-526	Metathesaurus unable to load or Resume		
LEXEVS-522	Excessive SQL Query crashes server		
LEXEVS-492	Unable to export NCI Thesaurus 11.10e		

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.

JIRA number (hyperlinked)	Brief description of non-functional requirement	Status (Approved or Proposed)	Iteration
LEXEVS-555	LexEVS 6.1 Software Design Document		
LEXEVS-556	LexEVS 6.1 Information Systems Security Plan Document		
LEXEVS-557	LexEVS 6.1 Technical/Product Documentation (Wiki)		
LEXEVS-559	LexEVS 6.1 Design Review Package		
LEXEVS-558	LexEVS 6.1 Release Notes		
LEXEVS-560	LexEVS 6.1 Readiness Review Package		
LEXEVS-561	LexEVS 6.1 Technical Project Plan		
LEXEVS-562	LexEVS 6.1 Deployment to NCI Dev Tier		
LEXEVS-563	LexEVS 6.1 Deployment to NCI QA Tier		
LEXEVS-564	LexEVS 6.1 Deployment to NCI Stage Tier		
LEXEVS-565	LexEVS 6.1 Deployment to NCI Production Tier		
LEXEVS-566	LexEVS 6.1 Production Announcements		
LEXEVS-554	LexEVS GitHub Migration		

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.

JIRA 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.		---

Stakeholder Summary

CBIIT Staff/Contractor Name	Role	Responsibilities
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Craig Stancl	Mayo Clinic Technical Lead	Technical Direction and Implementation
Mandy Ager	Mayo Clinic Project Manager	Project schedule and task management

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.

JIRA 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
LEXEVS-505	Case-insensitive concept code search support.	Inception
LEXEVS-239	OBO loaded data with roots that declare disjointness do not display in hierarchy	Inception
LEXEVS-236	OBO optional synonym type name	Inception
LEXEVS-370	Export the content of ResolvedValueSetDefinition to StringBuffer in LexGrid XML format	Inception
LEXEVS-372	Extensions should be able to add properties to existing concepts	Inception
LEXEVS-369	Add a label or description member variable to EntityDescription.	Inception
LEXEVS-367	Support retrieval of ValueSetDefinition by multiple coding schemes.	Inception
LEXEVS-366	Modify output parameter of the getCodingSchemesInValueSetDefinition method in LexEVSVValueSetDefinitionServices.	Inception
LEXEVS-368	Support retrieval of ValueSetDefinition by multiple concept domains.	Inception
LEXEVS-365	Resolve nested value set definition through distributed Value Set API.	Inception
LEXEVS-363	Extend MappingExtension functionalities to support restrictions.	Inception
LEXEVS-354	Load source qualifiers for generic properties in NCI-META RRF loader	Inception
LEXEVS-350	Examine use of LexBIG entity status	Inception
LEXEVS-531	Build scripts do not have path for dataqa	Inception
LEXEVS-255	Linux gui does not work	Inception
LEXEVS-233	SNOMED Role Groups not loading from RRF files	Inception
LEXEVS-227	Lucene Max Clause Count exceeded on broad NCI MetaThesaurus RegExp Restrictions	Inception
LEXEVS-371	Make it easy to do retrieval of only active concepts in a terminology through the/ a service	Inception
LEXEVS-362	Owl/rdf exporter limitation	Inception
LEXEVS-345	Convert codes in entity description of anonymous class to names.	Inception
LEXEVS-512	LexEVSVValueSetDefinitionServices.getCodedNodeSetForValueSetDefinition method can be extremely slow.	Inception
LEXEVS-508	Mapping concepts don't always have a suitable target	Inception
LEXEVS-507	Inefficient query when trying to filter Metathesaurus by Source.	Inception
LEXEVS-496	LexEVS api calls do not populate directionalName in the association	Inception

LEXEVS-515	Caching of value sets don't always work	Inception
LEXEVS-518	Trying to load ICD10 results in error	Inception
LEXEVS-516	LexEVSVValueSetDefinitionServices getValueSetDefinitionEntitiesForTerm fails on inactive coding schemes.	Inception
LEXEVS-519	Inconsistant package naming	Inception
LEXEVS-461	Necessity to rebuild indexes after load	Inception
LEXEVS-538	Loader should support unicode	Inception
LEXEVS-521	Transition table hangs in UMLS loader on large vocabs	Inception
LEXEVS-244	Unqueryable classes are registered by the grid service	Inception
LEXEVS-232	The codedNodeGraph is not displaying the top nodes correctly	Inception
LEXEVS-235	PDQ load shows multiple LT : TRD properties in browser	Inception
LEXEVS-234	RRF Snomed Loader not interpreting SNOMED status codes correctly	Inception
LEXEVS-230	The contains algorithm fails on search strings starting with a single character word such as 'a'.	Inception
LEXEVS-442	NCIt Loader preferences file with defaults	Inception
LEXEVS-361	Unregister coding scheme supplement through the LexBIG GUI application.	Inception
LEXEVS-360	Add a Boolean-Valued member variable applyToSubconcepts to EntityReference.	Inception
LEXEVS-359	Need an effective way of counting the size of a CNG.	Inception
LEXEVS-356	GUI should reflect administrative nomenclature	Inception
LEXEVS-358	Authoring Tool / Graphical User Interface (GUI)	Inception
LEXEVS-353	Need an option to exclude the focused node itself from ResolvedConceptReferenceList when resolving a CNG.	Inception
LEXEVS-352	Better validation on restrictions	Inception
LEXEVS-347	Control the setting of isActive via Loader preferences	Inception
LEXEVS-348	Ability to query for inferred data - implement ability to reason	Inception
LEXEVS-344	Enhance LexBIG query API to fetch AssociationData objects.	Inception
LEXEVS-269	Demonstrate cross ontology relationships	Inception
LEXEVS-264	Validation of UTF-8 subset	Inception
LEXEVS-250	Duplicate alias "_value" when quering LexEVSDataService	Inception
LEXEVS-510	Documentation location in the installer	Inception
LEXEVS-511	UMLS meta loader script is in the wrong format	Inception
LEXEVS-509	Sorting in Mapping tab in Term Browser can lead to 500 errors	Inception
LEXEVS-500	Load Progress indicators	Inception
LEXEVS-517	LexEVSAuthoringServiceImpl 'getEntity' restricts to types of 'concept'	Inception
LEXEVS-469	Attempted load of a MRMAP mapping failed with inscrutable error	Inception
LEXEVS-482	Ability to load metadata and mapping in one operation	Inception
LEXEVS-481	Ability to load metadata and coding scheme in one operation	Inception
LEXEVS-475	Enhancement to versioning of Mapping loads	Inception
LEXEVS-480	Better support for "Metathesaurus" data structures (e.g. accessing source hierarchies in NCI-META)	Inception
LEXEVS-478	Clean up GUI - functionality should match documentaion/presentation	Inception
LEXEVS-476	Ability to load MRMAP without a MRSAT entry	Inception
LEXEVS-474	Ability to add metadata to value set definitions	Inception

LEXEVS-473	Concept Sorting in Mappings when using local API	Inception
LEXEVS-446	UMLS loader should give an error if the SAB is not specified	Inception
LEXEVS-454	OWL Export exhibits memory leak.	Inception
LEXEVS-493	Search SNOMEDCT for '<' using the contains algorithm returns no matches.	Inception
LEXEVS-464	The NCI OWL loader is loading the "type" property inconsistently	Inception
LEXEVS-463	The NCI OWL loader is loading Metadata properties inconsistently.	Inception
LEXEVS-462	NCI OWL loader for LexBIG 6.0 is creating extraneous "label" property qualifiers	Inception
LEXEVS-460	Enable use of ALT keys in LexEVS Developer GUIs	Inception
LEXEVS-459	Batch Loader for LexEVS Value Set	Inception
LEXEVS-529	ValueSetDefinition getDefinitionEntryCount() returns incorrect number	Inception
LEXEVS-537	JIRA task - Unable to assign issues to QA person, and not Ready For QA status	Inception
LEXEVS-536	The ResolvedConceptReferencesIterator numberRemaining method can be quite inaccurate.	Inception
LEXEVS-535	Term Browser "View In Hierarchy" function fails for ICD10 root nodes	Inception
LEXEVS-534	Reduce error volume for hibernate issues	Inception
LEXEVS-525	Metathesaurus does not load completely	Inception
LEXEVS-528	Suppressable CUIs in RRF loader	Inception
LEXEVS-223	Anonymous class hierarchy with unions not showing up correctly.	Inception
LEXEVS-341	REST API Features	Inception
LEXEVS-339	MedDRA loading into LexEVS	Inception
LEXEVS-497	Documentation Issue	Inception
LEXEVS-502	Spelling error in loader	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 JIRA site:	
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:	

Project Information

CBIIT Management	Role	Responsibilities