

LexEVS 5.1 Scope document

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Document Information

Author: Traci St.Martin/Craig Stancil
Email: stmartin.traci@mayo.edu
Team: LexEVS
Contract: 28XS112
Client: NCI CBIIT
National Institutes of Health
US Department of Health and Human Services

Sign off	Date	Role	CBIIT or Stakeholder Organization
Hartel	7/2/09	PM	NCI EVS
Raghu	7/2/09	PM	caDSR and EVS Project Manager

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 5.1. 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 5.1 is to support the Metathesaurus Browser project by enhancing search and sorting performance as well as RRF loader changes to more accurately reflect the data. In addition we will explore enhancements to the loader framework and provide a recommendation /implementation for value set/domain support.

Current Solution

LexEVS 5.0

Proposed Solutions

LexEVS 5.1

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
21182	Value Set Support recommendation/implementation	—	—
21976	Improved loading framework	—	—
21979	Ability to load custom data - custom loading feasibility/recommendation report	—	—
21978	BDA support for 5.1	—	—

---	Update RRF loader to support Metathesaurus (Please see GForge items below)	—	—
---	Improve the API to efficiently support expanded search options and large concept relationships sets (Please see Gforge items below)	—	—

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
15975	The NCI_Thesaurus association Has_Salt_Form and Has_Free_Acid_Or_Base needs reverse name	—	—
20875	Unescaping XML character data in complex properties	—	—
20896	User question about Metathesaurus Term-group	—	—
21278	Displaying multiple concept status.	—	—
21287	SNOMED Full Name instead of Full form.	—	—
21336	Lucene Max Clause Count exceeded on broad NCI MetaThesaurus RegExp Restrictions	—	—
21567	ResourceManager cache not Thread-safe	—	—
21716	Add data from MRSAT file to NCI Meta data	—	—
21717	MRSAB configured to load for NCI Meta data	—	—
21718	MRREL data for NCI Meta - needs more data loaded	—	—
21719	Load MRRANK data for NCI Meta	—	—
21720	Load all MRMAP data	—	—
21721	Add some additional data from MRHIER	—	—
21722	Make sure MRDOC data for NCI Meta is loaded	—	—
21723	Add more data from MRDEF file for NCI Meta	—	—
21724	Add data from MRCONSO file to NCI Meta data	—	—
21739	CodedNodeGraph resolveAsList distributed method encountered Jaa heap space error	—	—
21740	Heap space error on Double Metaphone MetaThesaurus query	—	—
21849	Add an algorithm for supporting case-insensitive substring search.	—	—
21850	Add a search algorithm for supporting case-insensitive substring search with an additional spelling-error tolerant feature.	—	—
21851	Add a sort option for ranking matched concepts by similarity score.	—	—
21879	Improve error messages (e.g., CNS.resolve, CNS.resolveToList, CNG.resolveToList)	—	—
21880	Make sample programs (in the examples folder) runnable under both local and distributed modes.	—	—
21881	Improve ResolvedConceptReferencesIterator performance by reducing client-server network traffic in distributed mode.	—	—
21923	Connection Leak on SQLImplementedMethods 'mapToCodingSchemeName'	—	—
21935	OWL loader processing associations incorrectly	—	—
21980	Optimize Lucene code to improve search performance	—	—
21982	Implement a server side sort to improve performance	—	—

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
21981	Project plan for 5.1	—	—
21988	Test plan & test results	—	—
21990	Design and Implementation plan	—	—

21991	Release notes for 5.1	—	—
21992	Updated programmer's guide and users guide documentation on VKC Wiki for 5.1	—	—
21993	5.1 Deployment to Dev Tier	—	—
21994	5.1 Deployment to QA Tier	—	—
21995	5.1 Deployment to Stage Tier	—	—
21996	5.1 Deployment to Production Tier	—	—

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
—	Identify any 5.x/6.x requirements from caCORE teams as they migrate from EVS 3.x to LexEVS	—	—

Stakeholder Summary

Customer Name	Role	Interest/Need
George Komatsoulis	NCICB Application Infrastructure	Oversees NCICB Application Infrastructure
Avinash Shanbhag	NCICB Application Infrastructure	Oversees NCICB caCORE Software Engineering
Frank Hartel	EVS Product Manager	Directs EVS Projects
Denise Warzel	CORE Product Line Manager	Trans-CORE requirement coordination
Gilberto Fragoso	Associate Director EVS Infrastructure	Technical Direction
Jason Lucas	NCI Metathesaurus Browser Project Manager	Project schedule and task management for browser team
Raghu Chintalapati	EVS Project Manager	Project schedule and task management
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](#).

Client Interface	- NCI browsers - Programs accessing through caCORE/EVS APIs
Application Server	Jboss application server
Database Server	MySQL
Operating System	- Windows 2000, XP - Unix (Sun Solaris)

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
15667	gov.nih.nci.evs.domain.Atom.getLUI does not return value. Per the tracker, Consensus says to deprecate. Lexbig does not load LUI and no user has noticed. Therefore this bug is deferred.	Inception
16678	Serializer Exception on org.apache.lucene.search.regex.JavaUtilRegexCapabilities. Per the tracker, I've replicated what this method does and called it outside the DLBAdapter and things work fine. Therefore this bug is deferred due to low priority.	Inception
19406	Results not Deserializing Properly when using QueryModifiers on CQL Queries. This bug was discussed in our technical meeting and is deferred due to low priority	Inception
20590	Not all concept status property values are accessible through the API. This item has been discussed and is deferred due to low priority	Inception
20653	Anonymous class hierarchy with unions not showing up correctly. This item has been discussed and is not an issue for 5.0. Deferred due to low priority	Inception
20661	Ontology for Genetic Interval hierarchy does not match up Protege. This item has been discussed and is not an issue for 5.0. Deferred due to low priority	Inception
20665	ECG Ontology missing Description, Date, Source and Creator fields. This item has been discussed and is not an issue for 5.0. Deferred due to low priority	Inception
20684	Cannot compute root node for OBI version v1.0.1423. This item has been discussed and is not an issue for 5.0. Deferred due to low priority	Inception
20797	Strict Owl Processing. This item has been discussed and is not an issue for 5.0. Deferred due to low priority	Inception

Document History

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
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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:	[EVS:Name and URL of each related document]

Project Information

CBIIT Management	Role	Responsibilities
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Frank Hartel	Product Manager	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.