

Monthly Technical Status Report

**LexEVS Operations and Maintenance
Subcontract No. 13XS500 – Modification 8**

May 2016

April 1 – April 30, 2016

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Date:

May 10, 2016

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A. Technical Overview

We finished sprint 27 (March 31, 2016 – April 13, 2016). In this sprint, we tested the LexEVS Remote API, fixed issues with the history, metadata, and search extension calls on the LexEVS Remote API. We investigated the root cause of LexEVS CTS2 in memory testing and came up with a plan to fix this. We also resolved a utility method in SearchExtensionImpl and a LexEVS Remote API issue where the call to next was failing.

We finished sprint 28 (April 14, 2016 – April 27, 2016). In this sprint, we delivered our latest version of LexEVS to NCI for testing. We fixed LexEVS Remote API issues involving the mapping extension, coded node graph, set functions for the coded node set, and hierarchy issues. We removed unused code and replaced it with the ScoreDocIterator that is now being used. We implemented a fix for a LexEVS CTS2 in memory issue and added a fix for the lucene child query issue. We also created documentation for the development changes we made for Remote Service and Remote Client.

Sprint 29 (April 28, 2016 – May 11, 2016) was started this month, but there are no updates for this month.

We also provided continued product maintenance and deployment support across all sprints.

Please see the weekly meeting notes for details:

<https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.3+and+6.4+Weekly+Meeting+Minutes>

B. Issues Resolved Over the Covered Period

Sprint	Activity	Description/Comments
Sprint 27	6.4 Lucene project – Sprint 27 completed	https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=220&view=reporting&chart=sprintRetrospective&sprint=633
Sprint 27	LEXEVS-1733	Test 6.4 LexEVS Remote to Mayo Instance.
Sprint 27	LEXEVS-1734	I would like NCI History to work in a distributed environment
Sprint 27	LEXEVS-1736	I would like Metadata calls to work in a distributed environment
Sprint 27	LEXEVS-1737	I would like Search Extension functionality to work in a distributed environment
Sprint 27	LEXEVS-1740	Provide continued Product Maintenance Support (Sprint 27)

Sprint	Activity	Description/Comments
Sprint 27	LEXEVS-1741	Provide continued Administrative Support (Sprint 27)
Sprint 27	LEXEVS-1752	I want to investigate the issues with Lexevs and CTS2 in memory testing environment
Sprint 27	LEXEVS-1757	Utility method in SearchExtensionImpl can return null when it should not
Sprint 27	LEXEVS-1762	Code to Fix distributed next call failing when a doc id is resolved against all coding schemes.
Sprint 28	6.4 Lucene project – Sprint 28 completed	https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=220&view=reporting&chart=sprintRetrospective&sprint=654
Sprint 28	LEXEVS-1604	Deploy 6.4 LexEVS to NCI DEV
Sprint 28	LEXEVS-1748	I would like Mapping Extension to work in a distributed environment
Sprint 28	LEXEVS-1756	I would like to have CodedNodeGraph calls working over distributed API
Sprint 28	LEXEVS-1765	Refactor AbstractListBackedResolvedConceptReferencesIterator to work with ScoreDocIterator
Sprint 28	LEXEVS-1766	I would like all Set Functions for CodedNodeSets to run in a distributed call
Sprint 28	LEXEVS-1767	I would like all hierarchy functions to be working in a distributed environment
Sprint 28	LEXEVS-1769	Resurrect the in-memory load of data for LexEVS 6.4
Sprint 28	LEXEVS-1783	Create Wiki page for documenting the Remote Service and Remote Client changes
Sprint 28	LEXEVS-1787	Provide continued Product Maintenance Support (Sprint 28)
Sprint 28	LEXEVS-1788	Provide continued Administrative Support (Sprint 28)

Sprint	Activity	Description/Comments
Sprint 28	LEXEVS-1793	I want to make sure that lucene child query must only match non-parent docs

C. New Releases of the Software

Release	Description of the Release

D. Presentations, Documentation Updates, Community Communication

Activity	Description of the Activity

E. Outstanding Issues Being Actively Worked

Sprint	Activity/Issue	Description/Comments
Sprint 29	LexEVS 6.4 - Sprint 29	LexEVS 6.4 Sprint 29 Stories
Sprint 29	LEXEVS-999	MedDRASecurity OutOfMemoryError issue.
Sprint 29	LEXEVS-1430	Loader - Batch Loader: Rxn Batch Loader Extension Fails to load
Sprint 29	LEXEVS-1799	I want to have mapping extension run successfully on LexEVS Remote API without an End of File Exception
Sprint 29	LEXEVS-1830	I want to investigate Tree Hierarchy Extension in LexEVS Remote API
Sprint 29	LEXEVS-1768	CTS2 does not provide property qualifier support - LexEVS 6.3 Support
Sprint 29	LEXEVS-1770	CTS2 does not provide property qualifier support - LexEVS 6.4 Support

Sprint 29	LEXEVS-1797	CTS2 Integration Tests failing due to duplicate results.
Sprint 29	LEXEVS-1798	I want to investigate performance for LexEVS Remote API.
Sprint 29	LEXEVS-1804	Provide continued Product Maintenance Support (Sprint 29)
Sprint 29	LEXEVS-1805	Provide continued Administrative Support (Sprint 29)
Sprint 29	LEXEVS-1806	I like to parameterize the URI resolver service URL for CTS2 LexEVS-Service
Sprint 29	LEXEVS-1834	I want Hyphenated word contains search to return results

F. Critical Risks or External Dependencies

Activity/Issue	Description to corrective activity/issue
LexEVS 6.4 Lucene Development	Many of the tasks associated with implementing the new Lucene 5.3.1 search engine are unknown in size. This has the potential of pushing out the release date as we encounter these tasks.

G. Status of Deliverables/Milestones Overview

We have created a project wiki site out on Confluence Wiki at:

- <https://wiki.nci.nih.gov/pages/viewpage.action?pageId=238354574>

We have created a JIRA agile board for the LexEVS 6.4 Lucene release at:

- <https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=220&view=planning.nodetail>

This table of contents breaks out into different areas to capture the weekly meeting notes, monthly technical status reports, an area for documentation and a brief summary. This site will evolve throughout the lifecycle of this project.

H. Status of Deliverables

Deliverable/Milestone	Delivery Date	Status
Program Management	Ongoing	In Progress
Maintenance of Software System	Ongoing	In Progress
Provide Technical Expertise	Ongoing	In Progress
Project Wiki	11/10/2014	In Progress
Monthly Technical Reports:		
October 2014	11/10/2014	Complete
November 2014	12/10/2014	Complete
December 2014	01/10/2015	Complete
January 2015	02/10/2015	Complete
February 2015	03/10/2015	Complete
March 2015	04/10/2015	Complete
April 2015	05/10/2015	Complete
May 2015	06/10/2015	Complete
June 2015	07/10/2015	Complete
July 2015	08/10/2015	Complete
August 2015	09/10/2015	Complete
September 2015	10/10/2015	Complete
October 2015	11/10/2015	Complete
November 2015	12/10/2015	Complete
December 2015	01/10/2016	Complete
January 2016	02/10/2016	Complete
February 2016	03/10/2016	Complete
March 2016	04/10/2016	Complete
April 2016	05/10/2016	Complete

Deliverable/Milestone	Delivery Date	Status
Monthly Financial Reports:		
October 2014	11/10/2014	Complete
November 2014	12/10/2014	Complete
December 2015	01/10/2015	Complete
January 2015	02/10/2015	Complete
February 2015	03/10/2015	Complete
March 2015	04/10/2015	Complete
April 2015	05/10/2015	Complete
May 2015	06/10/2015	Complete
June 2015	07/10/2015	Complete
July 2015	08/10/2015	Complete
August 2015	09/10/2015	Complete
September 2015	10/10/2015	Complete
October 2015	11/10/2015	Complete
November 2015	12/10/2015	Complete
December 2015	01/10/2016	Complete
January 2016	02/10/2016	Complete
February 2016	03/10/2016	Complete
March 2016	04/10/2016	Complete
April 2016	05/10/2016	Complete

I. Description of Work/Activities Planned for the next Month

Activity	Description
LexEVS 6.4 Lucene development	Verify/fix any issues associated with services that use the LexEVS API running the new Lucene code base. Deploy LexEVS Remote API and CTS2 services to NCI's DEV instance and test.
Continued support for LexEVS	Continue to work with the NCI team on new and existing issues.

J. Additional Reporting