

# **Monthly Technical Status Report**

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

**September 2016  
August 1 – August 31, 2016**

**Submitted by:**

**Craig Stancl, Scott Bauer, Cory Endle, Deepak Sharma**

**Date:**

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## A. Technical Overview

Sprint 35 (July 21, 2016 – August 03, 2016) has been completed. In this sprint there were several OWL2 loader updates made. The LexEVS 6.4 wiki documentation has been completed. NCI's JIRA environment has been updated to support development of the next LexEVS release, 6.5. LexEVS 6.4.0 has been deployed to QA and testing has begun. This 6.4.0 release includes the following components: LexEVS 6.4.0, LexEVS Remote API 6.4.0, and LexEVS-Service (CTS2) 1.5.0. Investigation into technology stack upgrades for Java 8, CentOS 7 and Spring 4 has also been completed.

Sprint 36 (August 04, 2016 – August 17, 2016) has been completed. In this sprint we investigated what changes were necessary to run the LexEVs components securely with HTTPS in NCI's production environment. An issue was resolved where the MetaThesaurus was failing on a long term. Artifacts were created and made available for the MetaThesaurus and OWL2 loader changes.

Sprint 37 (August 18, 2016 – August 31, 2016) has been completed. LexEVS 6.4.1 was released. This release included the ability to run securely using HTTPS, OWL2 loader fixes, and a CTS2 fix where HL7 entities were not resolved. This 6.4.1 release includes the following components: LexEVS 6.4.1, LexEVS Remote API 6.4.1, and LexEVS-Service (CTS2) 1.5.1. There were several miscellaneous tasks completed including updating the git NCIP channel with the latest code base, removing old/unused git tags, investigating the LexEVS remote client build process, and investigation on how to migrate the Mayo Nexus server artifacts to NCI's Nexus server.

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 35	<a href="#">LexEVS 6.4 - Sprint 35</a>	LexEVS 6.4 Sprint 35 Stories
Sprint 35	<a href="#">LEXEVS-726</a>	As a team, we need to update our wiki documentation to support the new and updated features
Sprint 35	<a href="#">LEXEVS-1151</a>	Loader - OWL2: Investigate OBI Load - why loading of named instances (individuals) don't appear in the browser.
Sprint 35	<a href="#">LEXEVS-1152</a>	Loader - OWL2: Investigate OBI Load - why restrictions on a class are not being seen in the GUI

<b>Sprint</b>	<b>Activity</b>	<b>Description/Comments</b>
Sprint 35	<a href="#">LEXEVS-1153</a>	Loader - OWL2: Investigate NDFRT Load - why restrictions on a class are not being seen in the GUI
Sprint 35	<a href="#">LEXEVS-1160</a>	Loader - OWL2: NDFRT Loader - Restrictions on a class not displayed in the browser.
Sprint 35	<a href="#">LEXEVS-1299</a>	Loader - OWL2: Unable to associate property code with property label.
Sprint 35	<a href="#">LEXEVS-1339</a>	Loader - OWL2: Entity or BFO_0000001 has qualifier value that is not resolved
Sprint 35	<a href="#">LEXEVS-1976</a>	Loader - OWL2: Investigate to determine if complex property loader directives are hard coded
Sprint 35	<a href="#">LEXEVS-2030</a>	Loader - OWL2 history annotation should be represented as an IRI
Sprint 35	<a href="#">LEXEVS-2049</a>	Initiate LexEVS 6.4 deployment to QA
Sprint 35	<a href="#">LEXEVS-2081</a>	As a team, we need to complete all 6.3 and 6.4 related stories (prior to FINAL code release)
Sprint 35	<a href="#">LEXEVS-2087</a>	Documentation: Complete wiki documentation (associated to FINAL code release)
Sprint 35	<a href="#">LEXEVS-2109</a>	JIRA Preparation - Create JIRA environment and artifacts for 6.5 Development
Sprint 35	<a href="#">LEXEVS-2139</a>	Investigate JIRA issue LEXEVS-2131 - Qualifier field not wide enough
Sprint 35	<a href="#">LEXEVS-2140</a>	Investigate Tech Stack Update - Java 8
Sprint 35	<a href="#">LEXEVS-2142</a>	Investigate Tech Stack Update - CentOS 7
Sprint 35	<a href="#">LEXEVS-2143</a>	Investigate Tech Stack Update - Spring 4
Sprint 35	<a href="#">LEXEVS-2171</a>	OBI Load generates jdbc errors
Sprint 35	<a href="#">LEXEVS-2175</a>	Create LexEVS Remote Client 6.4.0 FINAL version
Sprint 35	<a href="#">LEXEVS-2184</a>	Investigate running lexevs components over HTTPs
Sprint 36	<a href="#">LexEVS 6.4 - Sprint 36</a>	LexEVS 6.4 Sprint 36 Stories
Sprint 36	<a href="#">LEXEVS-727</a>	As a team, we need to provide project closure documentation as described in the statement of work
Sprint 36	<a href="#">LEXEVS-2082</a>	As a team, we need to complete all 6.3 and 6.4 related stories (associated to FINAL code release)

<b>Sprint</b>	<b>Activity</b>	<b>Description/Comments</b>
Sprint 36	<a href="#">LEXEVS-2138</a>	Wiki Preparation - Create Wiki environment for Development Activity (LexEVS, CTS2 Service, URI Resolver, Remote API)
Sprint 36	<a href="#">LEXEVS-2180</a>	Create Artifacts - 6.4 LexEVS Loader Enhancements
Sprint 36	<a href="#">LEXEVS-2188</a>	Investigate and Document local Environment to configure SSL.
Sprint 36	<a href="#">LEXEVS-2191</a>	Investigate Docker files to support LexEVS System Test using HTTPS
Sprint 36	<a href="#">LEXEVS-2210</a>	Loader: Indexing of MetaThesaurus fails on large term
Sprint 36	<a href="#">LEXEVSCTS2-38</a>	Enable HTTPs for lexevs-service (CTS2)
Sprint 36	<a href="#">LEXEVSCTS2-39</a>	Investigate CTS2 issue failing in LexEVS system Test.
Sprint 36	<a href="#">LEXEVSCTS2-45</a>	LexEVSResolvedValueSetService Test fails with Java 1.8
Sprint 36	<a href="#">LEXEVSREM-2</a>	Investigate HTTPs for LexEVS Remote API
Sprint 36	<a href="#">URIRESOLV-4</a>	Enable HTTPs for the URI Resolver
Sprint 37	<a href="#">LexEVS 6.4 - Sprint 37</a>	LexEVS 6.4 Sprint 37 Stories
Sprint 37	<a href="#">LEXEVS-1134</a>	Investigate how to "Mavenize" the LexEVS client
Sprint 37	<a href="#">LEXEVS-2179</a>	Create a git pull request to update NCIP channel with latest releases
Sprint 37	<a href="#">LEXEVS-2192</a>	Create re-usable docker compose script.
Sprint 37	<a href="#">LEXEVS-2213</a>	Create an announcement/update wiki on how to upgrade to Lexevs (HTTPS fix)
Sprint 37	<a href="#">LEXEVS-2220</a>	Remove old Snapshot tags from LexEVS
Sprint 37	<a href="#">LEXEVS-2221</a>	Update LexEVS PTEs to account for HTTPS configuration
Sprint 37	<a href="#">LEXEVS-2222</a>	Create lexevs 6.4.1 FINAL artifacts with HTTPS and Loader features
Sprint 37	<a href="#">LEXEVS-2243</a>	Investigate NCI Maven Repository
Sprint 37	<a href="#">LEXEVSCTS2-49</a>	Create lexevs-service 1.5.1 FINAL artifacts with HTTPS and Loader features
Sprint 37	<a href="#">LEXEVSCTS2-53</a>	CTS2 Service fails to resolve entitites for HL7 terminology loaded from MIF
Sprint 37	<a href="#">LEXEVSCTS2-54</a>	Test lexevs-service 1.5.1 using the remote API

Sprint	Activity	Description/Comments
Sprint 37	<a href="#">LEXEVSREM-6</a>	Create lexevs-remote API 6.4.1 FINAL artifacts with HTTPS and Loader features

### C. New Releases of the Software

Release	Description of the Release
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<p>Release Date: Sprint 37 - August 31, 2016</p> <p>The LexEVS 6.4.1 release consists of the following 3 components:</p> <p>LexEVS API</p> <ul style="list-style-type: none"> <li>• LexEVS-install-config-6.4.1.FINAL.xml</li> <li>• LexEVS-install-6.4.1.FINAL.jar</li> <li>• extLib-6.4.1.FINAL.zip</li> <li>• lexbig-6.4.1.FINAL.jar</li> </ul> <p>LexEVS Remote API</p> <ul style="list-style-type: none"> <li>• lexevsapi64-6.4.1.FINAL.war</li> </ul> <p>Lexevs CTS2</p> <ul style="list-style-type: none"> <li>• lexevs-service-1.5.1.FINAL.war</li> </ul>	<p>LexEVS 6.4.1 FINAL Release</p> <p><a href="#">LexEVS 6.4.1 Release Notes</a> for the final release.</p> <p>Features added since the previous release:</p> <ul style="list-style-type: none"> <li>• <a href="#">LEXEVS-1151</a> Loader - OWL2: Investigate OBI Load - why loading of named instances (individuals) don't appear in the browser.</li> <li>• <a href="#">LEXEVS-1152</a> Loader - OWL2: Investigate OBI Load - why restrictions on a class are not being seen in the GUI</li> <li>• <a href="#">LEXEVS-1153</a> Loader - OWL2: Investigate NDFRT Load - why restrictions on a class are not being seen in the GUI</li> <li>• <a href="#">LEXEVS-1160</a> Loader - OWL2: NDFRT Loader - Restrictions on a class not displayed in the browser.</li> <li>• <a href="#">LEXEVS-1299</a> Loader - OWL2: Unable to associate property code with property label.</li> <li>• <a href="#">LEXEVS-1339</a> Loader - OWL2: Entity or BFO_0000001 has qualifier value that is not resolved</li> <li>• <a href="#">LEXEVS-1976</a> Loader - OWL2: Investigate to determine if complex property loader directives are hard coded</li> <li>• <a href="#">LEXEVS-2030</a> Loader - OWL2 history annotation should be represented as an IRI</li> <li>• <a href="#">LEXEVS-1338</a> Loader - OWL2: Load of OWL2 sources will deal with tagged obo namespace values as resolvable properties</li> <li>• <a href="#">LEXEVSREM-2</a> Investigate HTTPs for LexEVS Remote API</li> <li>• <a href="#">LEXEVSCTS2-45</a> LexEVSResolvedValueSetService Test fails with Java 1.8</li> <li>• <a href="#">LEXEVSCTS2-53</a> CTS2 Service fails to resolve entitites for HL7 terminology loaded from MIF</li> </ul>
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**D. Presentations, Documentation Updates, Community Communication**

Activity	Description of the Activity
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LexEVS 6.4.1 wiki updates. This includes updated pages as well as new pages.	<ul style="list-style-type: none"> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1+Release+Notes">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1+Release+Notes</a></li> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1+Local+Runtime+Downloads+to+Include">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1+Local+Runtime+Downloads+to+Include</a></li> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4+Release+Highlights">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4+Release+Highlights</a></li> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1+Installation+Options">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1+Installation+Options</a></li> </ul>
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## E. Outstanding Issues Being Actively Worked

Sprint	Activity/Issue	Description/Comments

## F. Critical Risks or External Dependencies

Activity/Issue	Description to corrective activity/issue
LexEVS Formal Deployment Process	Testing, validating, appscans and moving LexEVS services up each tier (DEV, QA, STAGE, PROD) can take a long time due to all of the different teams involved. This has the potential to push the release date out.

## 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=374&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



<b>Deliverable/Milestone</b>	<b>Delivery Date</b>	<b>Status</b>
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
May 2016	06/10/2016	Complete
June 2016	07/10/2016	Complete
July 2016	08/10/2016	Complete
August 2016	09/10/2016	Complete

<b>Deliverable/Milestone</b>	<b>Delivery Date</b>	<b>Status</b>
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
May 2016	06/10/2016	Complete
June 2016	07/10/2016	Complete
July 2016	08/10/2016	Complete
August 2016	09/10/2016	Complete

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

<b>Activity</b>	<b>Description</b>
LexEVS 6.4.1 Lucene deployment	<ul style="list-style-type: none"> <li>LexEVS 6.4.1 AppScan on QA tier.</li> <li>Deploy LexEVS 6.4.1 to STAGE/PROD</li> </ul>
LexEVS 6.5 Planning/Development	<ul style="list-style-type: none"> <li>Plan for the next LexEVS release. Determine the release date and what features should be included.</li> <li>Technical Stack upgrades</li> </ul>

<b>Activity</b>	<b>Description</b>
Continued support for LexEVS	<ul style="list-style-type: none"><li>• Continue to work with the NCI team on new and existing issues.</li></ul>

**J. Additional Reporting**