

# **Monthly Technical Status Report**

**LexEVS Operations and Maintenance  
Subcontract No. 16X237**

**April 2017**  
March 1 – March 31, 2017

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## Contents

Monthly Technical Status Report.....	1
A. Technical Overview .....	3
B. New Releases of the Software .....	5
C. Presentations, Documentation Updates, Community Communication .....	5
D. Outstanding Issues Being Actively Worked .....	6
E. Critical Risks or External Dependencies .....	7
F. Status of Deliverables/Milestones Overview.....	7
G. Status of Deliverables .....	7
H. Description of Work/Activities Planned for the next Month .....	8
I. Additional Reporting.....	8

## A. Technical Overview

Sprint 50 (February 16, 2017 - March 01, 2017) has been completed. In this sprint, there were several OWL2 loader fixes as well as a value set load issue resolved. Artifacts for LexEVS 6.4.1.x and 6.5.0 were created and were tested by the NCI development team.

Sprint 51 (March 02, 2017 - March 16, 2017) has been completed. In this sprint, the admin shell scripts were updated with a headless option. There were also tree extension fixes, an OWL2 loader performance issue that was resolved, and a remote API serialization issue that was fixed.

Sprint 52 (March 17, 2017 - March 29, 2017) has been completed. In this sprint, there were additional OWL2 loader issues, tree extension issues, and value set definition resolution issues that were resolved. Updates to the NCI wiki for release 6.5.0 have started. There have also been git repository branch work done associated with the LexEVS 6.5.0 release.

Sprint 53 (March 30, 2017 - April 12, 2017) has been started, and will be reported on next 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+16X237+Weekly+Meeting+Minutes>

### Issues Resolved Over the Covered Period

<b>Sprint</b>	<b>Activity</b>	<b>Description/Comments</b>
Sprint 50	<a href="#">LexEVS Development - Sprint 50</a>	LexEVS 6.4 Sprint 50 Stories
Sprint 50	<a href="#">LEXEVS-2675</a>	OWL2 Loader - Associations load as properties and relationships
Sprint 50	<a href="#">LEXEVS-2676</a>	OWL2 Loader - Load annotations with rdf:resource as associations
Sprint 50	<a href="#">LEXEVS-2677</a>	OWL2 Loader - Sources and Representational Forms not present
Sprint 50	<a href="#">LEXEVS-2711</a>	OWL2 Loader - Some classes are failing to load as entities
Sprint 50	<a href="#">LEXEVS-2716</a>	Some value sets fail to load against the NCI.
Sprint 50	<a href="#">LEXEVS-2731</a>	6.4.1.3 Patch: Build artifacts for 6.4.1.3 patch
Sprint 50	<a href="#">LEXEVS-2740</a>	Java 8 Release: Build artifacts for Java 8 Snapshot
Sprint 50	<a href="#">LEXEVS-2745</a>	Deploy lexevs 6.4.1.3.FINAL to NCI's DEV VM
Sprint 50	<a href="#">LEXEVS-2759</a>	Update lexevs-system-test load script to include added value set tests

<b>Sprint</b>	<b>Activity</b>	<b>Description/Comments</b>
Sprint 50	<a href="#">LEXEVS-2765</a>	Upgrade LexEVS to run on tomcat 8
Sprint 50	<a href="#">LEXEVSCTS2-145</a>	Java 8 Release: Build artifacts for Java 8 Snapshot
Sprint 50	<a href="#">LEXEVSREM-75</a>	6.4.1.3 Patch: Build artifacts for 6.4.1.3 patch
Sprint 50	<a href="#">LEXEVSREM-82</a>	Java 8 Release: Build artifacts for Java 8 Snapshot
Sprint 50	<a href="#">LEXSYSTEST-1</a>	Update environment to support Tomcat 8
Sprint 51	<a href="#">LexEVS Development - Sprint 51</a>	LexEVS 6.4 Sprint 51 Stories
Sprint 51	<a href="#">LEXEVS-285</a>	Admin: Make admin shell scripts headless
Sprint 51	<a href="#">LEXEVS-971</a>	Tree Extension: TreeService getTree method fails on Zebrafish.
Sprint 51	<a href="#">LEXEVS-1142</a>	Tree Extension: Possible LexEvsTreeNode getPathToRootChildren and/or getPathToRootParents failure.
Sprint 51	<a href="#">LEXEVS-1300</a>	Tree Extension: Tree extension api failed on on OBO formatted ontologies.
Sprint 51	<a href="#">LEXEVS-2771</a>	Fix performance of the OWL2 Loader
Sprint 51	<a href="#">LEXEVS-2776</a>	6.4.1.x Patch: Build artifacts for 6.4.1.3.1.RC
Sprint 51	<a href="#">LEXEVS-2778</a>	Merge 6.4.1.x changes to the DEV branch
Sprint 51	<a href="#">LEXEVSREM-86</a>	Remote API: Socket Timeout issue when large result lists are returned.
Sprint 51	<a href="#">LEXEVSREM-87</a>	Remote API: A java.io.NotSerializableException is thrown.
Sprint 51	<a href="#">LEXEVSREM-90</a>	6.4.1.x Patch: Build artifacts for 6.4.1.3.1.RC
Sprint 52	<a href="#">LexEVS Development - Sprint 52</a>	LexEVS 6.4 Sprint 52 Stories
Sprint 52	<a href="#">CTS2FW-44</a>	6.5.0 Release: Create 1.3.0 branch from the dev branch.
Sprint 52	<a href="#">LEXEVS-2801</a>	Loader - OWL2 Annotation property derived associations do not populate entity description
Sprint 52	<a href="#">LEXEVS-2802</a>	Loader - OWL2: Source qualifier for ALT_DEFINITION might have not been loaded properly.
Sprint 52	<a href="#">LEXEVS-2803</a>	Docker: Contact NCI docker/devops team to come up with a plan to migrate Jenkins/Docker script to NCI
Sprint 52	<a href="#">LEXEVS-2806</a>	Loader - OWL2 does not traverse graph with focus node namespace declared
Sprint 52	<a href="#">LEXEVS-2807</a>	Value Set: Value Set Definitions not Resolving
Sprint 52	<a href="#">LEXEVS-2811</a>	6.5.0 Release: Update release version wiki for 6.5.0 release

Sprint	Activity	Description/Comments
Sprint 52	<a href="#">LEXEVS-2833</a>	6.5.0 Release: Lexevs - Create 6.5.0 branch from the dev branch.
Sprint 52	<a href="#">LEXEVS-2836</a>	Tree Extension: Investigate LexEvsTreeNode getPathToRootChildren and/or getPathToRootParents failure.
Sprint 52	<a href="#">LEXEVS-2848</a>	TreeService getSubConcepts method fails on OWL2 load.
Sprint 52	<a href="#">LEXEVS-2849</a>	I would like BaseLoader error output to be more robust
Sprint 52	<a href="#">LEXEVS-2850</a>	I would like to have the Https VM arguments for Ant launch templates persisted to github
Sprint 52	<a href="#">LEXEVS-2855</a>	Entity type not populated in ResolvedConceptReference returned by name search methods.
Sprint 52	<a href="#">LEXEVSCTS2-149</a>	6.5.0 Release: Create 1.6.0 branch from the dev branch.
Sprint 52	<a href="#">LEXEVSREM-101</a>	6.5.0 Release: Lexevs Remote - Create 6.5.0 branch from the dev branch.
Sprint 52	<a href="#">LEXEVSREM-104</a>	Investigate failing Remote services iterator paging failure
Sprint 52	<a href="#">URIRESOLV-12</a>	6.5.0 Release: URI Resolver - Create 1.1.0 branch from the dev branch

## B. New Releases of the Software

Release	Description of the Release
<p>Release Date: Sprint 50 – March 1, 2017</p> <p>The LexEVS 6.4.1.3 patch release consists of the following two components:</p> <p>LexEVS API</p> <ul style="list-style-type: none"> <li>LexEVS-install-config-6.4.1.3.FINAL.xml</li> <li>LexEVS-install-6.4.1.2.FINAL.jar</li> <li>extLib-6.4.1.2.FINAL.zip</li> <li>lexbig-6.4.1.3.FINAL.jar</li> </ul> <p>LexEVS Remote API</p> <ul style="list-style-type: none"> <li>lexevsapi64-6.4.1.3.FINAL.war</li> </ul>	<p>LexEVS 6.4.1.3 FINAL Release</p> <p>Highlights</p> <ul style="list-style-type: none"> <li>Loader fixes.</li> <li>Admin UI enhancements.</li> <li>Admin CLI enhancements.</li> </ul> <p>Details of the features and defects fixed can be found here: <a href="#">LexEVS 6.4.1.3 Release Notes</a></p>

## C. Presentations, Documentation Updates, Community Communication

Activity	Description of the Activity
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Added new wiki pages for LexEVS 6.4.1.3 patch release	<ul style="list-style-type: none"> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1.3+Installation+Options">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1.3+Installation+Options</a></li> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1.3+Release+Notes">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1.3+Release+Notes</a></li> <li>• <a href="https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1.3">https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.4.1.3</a></li> </ul>
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## D. Outstanding Issues Being Actively Worked

<b>Sprint</b>	<b>Activity/Issue</b>	<b>Description/Comments</b>
Sprint 53	<a href="#">LexEVS Development - Sprint 53</a>	LexEVS 6.4 Sprint 53 Stories
Sprint 53	<a href="#">LEXEVS-2879</a>	Run value set loading and removal scripts on the 6.4 DEV instance.
Sprint 53	<a href="#">LEXEVS-2881</a>	Investigate and provide support around RemoveValueSet script that is failing on data qa
Sprint 53	<a href="#">LEXSYSTEST-7</a>	6.5 branch of the system test project should use MySQL 5.6
Sprint 53	<a href="#">LEXEVS-2821</a>	6.5.0 Release: Update Release Notes for 6.5.0.
Sprint 53	<a href="#">LEXEVS-2830</a>	6.5.0 Release: Identify and label all 6.5.0 issues
Sprint 53	<a href="#">LEXEVS-2867</a>	6.4.1.4 Patch: Build artifacts for 6.4.1.4 patch
Sprint 53	<a href="#">LEXEVS-2874</a>	6.5.0. Release: Build Artifacts for 6.5.0.RC.1
Sprint 53	<a href="#">LEXEVS-2880</a>	Provide intial proposal for value set loading improvements
Sprint 53	<a href="#">LEXEVS-2884</a>	Unit tests for Tree Extension need to run regularly and as both local and remote tests
Sprint 53	<a href="#">LEXEVS-2891</a>	listAllResolvedValueSets() method in the value set service no longer returns all value sets consistently
Sprint 53	<a href="#">LEXEVS-2892</a>	Remove Resolved Value Set Script update for 6.4 was not an appropriate improvement
Sprint 53	<a href="#">LEXEVSCTS2-152</a>	6.5.0. Release: Build Artifacts for 6.5.0.RC.1
Sprint 53	<a href="#">LEXEVSREM-109</a>	6.4.1.4 Patch: Build artifacts for 6.4.1.4 patch
Sprint 53	<a href="#">LEXEVSREM-116</a>	6.5.0. Release: Build Artifacts for 6.5.0.RC.1
Sprint 53	<a href="#">LEXSYSTEST-4</a>	Docker Hub version of MySQL has been updated breaking current 6.4 script
Sprint 53	<a href="#">URIRESOLV-15</a>	6.5.0. Release: Build Artifacts for 6.5.0.RC.1

## E. Critical Risks or External Dependencies

Activity/Issue	Description to corrective activity/issue
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## F. Status of Deliverables/Milestones Overview

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

- <https://wiki.nci.nih.gov/display/LexEVS/LexEVS+Project+16X237+Documents>

We have created a JIRA agile board for the LexEVS Development 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.

## G. Status of Deliverables

Deliverable/Milestone	Delivery Date	Status
Project Management Plan (PMP)	20 days following Project Kickoff	In Process
Project Financial Plan (PFP)	20 days following Project Kickoff	Complete
Maintenance of Software System	09/30/2017	In Process
Provide Technical Expertise	09/30/2017	In Process
Project Wiki	10/20/2017	Complete
Monthly Technical Reports:		
October 2016	11/10/2016	Complete
November 2016	12/10/2016	Complete
December 2016	01/10/2017	Complete
January 2017	02/10/2017	Complete
February 2017	03/10/2017	Complete
March 2017	04/10/2017	Complete

<b>Deliverable/Milestone</b>	<b>Delivery Date</b>	<b>Status</b>
Monthly Financial Reports:		
October 2016	11/10/2016	Complete
November 2016	12/10/2016	Complete
December 2016	01/10/2017	Complete
January 2017	02/10/2017	Complete
February 2017	03/10/2017	Complete
March 2017	04/10/2017	Complete
Project Summary Report	30 Days Before Project Completion	Not Started

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

<b>Activity</b>	<b>Description</b>
LexEVS 6.4.1.4 Patch	Work on loader enhancements
LexEVS 6.5.0 Release	Prepare for Java 8/Tomcat 8/MySQL 5.6 supported release.
Continued support for LexEVS	Continue to work with the NCI team on new and existing issues.

## **I. Additional Reporting**

<b>Activity</b>	<b>Description</b>
Project Roadmaps	<ul style="list-style-type: none"> <li>• <a href="#">Roadmap 2017.03.07</a></li> <li>• <a href="#">Roadmap 2017.03.14</a></li> <li>• <a href="#">Roadmap 2017.03.28</a></li> </ul>
Sprint Status	<ul style="list-style-type: none"> <li>• <a href="#">Sprint 50</a></li> <li>• <a href="#">Sprint 51</a></li> <li>• <a href="#">Sprint 52</a></li> <li>• <a href="#">Sprint 53</a></li> </ul>