# Monthly Technical Status Report

**LexEVS Operations and Maintenance**

**Subcontract No. 13XS500 – Modification 4**

**April 2015**

March 1 – March 31, 2015

**Submitted by:**

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

**Date:**

**April 10, 2015**

# Contents

# A.    Technical Overview

LexEVS 6.3 has been completed.  The development team has tagged all of the LexEVS 6.3 code appropriately and has worked with NCI team to have this code deployed to NCI development tier for testing.  The two main issues that have been completed are the OWL2 loader enhancements and the default behavior for entity search has been restored (default searches now return active and inactive entities).  The dynamic CTS2 REST API documentation has passed the APPSCAN and has started the process of being moved up the NCI tiers to production.  The LexEVS 6.4 Lucene project has been started as an agile project.  For this release, we are using the JIRA agile toolset.  Sprint 1 – Planning has been completed and Sprint 2 – design and architecture has been started.

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

| Activity | Description/Comments |
|---|---|
| 6.4 Lucene project set up using JIRA agile | |
| OWL2 enhancements completed | |
| CTS2 API Documentation internal deployment at NCI passed app scanned. | |
| Default behavior for LexEVS entity search changed in LexEVS 6.2.  Default searches should return active and inactive entities. Fixed in 6.3. | |
| Created SNOMED loader documentation that outlined what constants the loader expected. | |
| LexEVS 6.3 deployed to NCI DEV tier for testing | |
| 6.3 Lucene project – Sprint 1 completed | https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=220&view=reporting&chart=sprintRetrospective&sprint=246 |
| 6.3 Lucene project – Sprint 2 started | https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=220&view=reporting&chart=sprintRetrospective&sprint=279 |

## C.    New Issues Identified

| Activity/Issue | Description to corrective activity/issue |
|---|---|
| **LEXEVS-829** | Mapping extension iterator delivers incorrect or infinite number of next() values |
| **LEXEVS-826** | RRF loader - staging table column width needs to be increased for AUI1 and AUI2 |
| **LEXEVS-812** | LexEVS allows tagging more than one version of a terminology as PRODUCTION |
| **LEXEVS-828** | Investigation of serialization error on mapping api |
| **LexEVS 6.4 - Sprint 1** | LexEVS 6.4 Sprint 1 Stories |
| **LexEVS 6.4 - Sprint 2** | LexEVS 6.4 Sprint 2 Stories |

## D.    New Releases of the Software

| Release | Description of the Release |
|---|---|
| LexEVS 6.3 | Released internally only at NCI on their DEV tier. |

## E.    Presentations, Documentation Updates, Community Communication

| Activity | Description of the Activity |
|---|---|
|  |  |

## F.    Outstanding Issues Being Actively Worked

| Activity/Issue | Description/Comments |
|---|---|
| **LEXEVS-775** | OWL2 Loader - Ontology metadata |
| **LEXEVS-776** | OWL2 Loader - external class |
| **LEXEVS-777** | OWL2 Loader - datatype property |
| **LEXEVS-778** | OWL2 Loader - annotation property |

| | |
|---|---|
| **LEXEVS-779** | OWL2 Loader - anonymous class (test with unattached restriction) |
| **LEXEVS-780** | OWL2 Loader - association, annotation (literal) |
| **LEXEVS-781** | OWL2 Loader - association, annotation (anyURI) |
| **LEXEVS-782** | OWL2 Loader - association, annotation (string) |
| **LEXEVS-783** | OWL2 Loader - annotation on anonymous class (test with unattached restriction) |
| **LEXEVS-784** | OWL2 Loader - annotation on association, object + annotation (v1) |
| **LEXEVS-785** | OWL2 Loader - annotation on association, annotation (literal) |
| **LEXEVS-786** | OWL2 Loader - annotation on association, annotation (anyURI) |
| **LEXEVS-787** | OWL2 Loader - annotation on association, annotation (string) |
| **LEXEVS-788** | OWL2 Loader - subclassOf, external named class |
| **LEXEVS-789** | OWL2 Loader - association internal class (PrognosisGood) |
| **LEXEVS-790** | OWL2 Loader - association external class (melanocyte) |
| **LEXEVS-791** | OWL2 Loader - equivalentClass, external named class |
| **LEXEVS-792** | OWL2 Loader - equivalentClass, intersection named classes |
| **LEXEVS-793** | OWL2 Loader - equivalentClass, union named disjoint classes |
| **LEXEVS-794** | OWL2 Loader - equivalentClass, complement named class |

| | |
|---|---|
| **LEXEVS-795** | OWL2 Loader - equivalentClass, some datatype restriction |
| **LEXEVS-796** | OWL2 Loader - equivalentClass, all datatype restriction |
| **LEXEVS-797** | OWL2 Loader - equivalentClass, datatype hasValue (inconsistent class) |
| **LEXEVS-798** | OWL2 Loader - equivalentClass, some objectype restriction |
| **LEXEVS-799** | OWL2 Loader - equivalentClass, some objectype restriction external class |
| **LEXEVS-800** | OWL2 Loader - equivalentClass, all objectype restriction external class |
| **LEXEVS-801** | OWL2 Loader - equivalentClass, all objectype restriction |
| **LEXEVS-802** | OWL2 Loader - equivalentClass, object hasValue |
| **LEXEVS-803** | OWL2 Loader - equivalentClass, intersection object restrictions |
| **LEXEVS-804** | OWL2 Loader - equivalentClass, union object restrictions |
| **LEXEVS-805** | OWL2 Loader - equivalentClass, role group |
| **LEXEVS-806** | OWL2 Loader - equivalentClass, class expression (intersection object & datatype) |
| **LEXEVS-807** | OWL2 Loader - equivalentClass, class expression (union object & datatype) |
| **LEXEVS-808** | OWL2 Loader - Create test cases to load and remove unannotated files |
| **LexEVS 6.4 - Sprint 1** | LexEVS 6.4 Sprint 1 Stories |
| **LexEVS 6.4 - Sprint 2** | LexEVS 6.4 Sprint 2 Stories |

## G.    Critical Risks or External Dependencies

| Activity/Issue | Description to corrective activity/issue |
|---|---|
| The prioritization of the OWL2 enhancements has delayed the start of the Lucene upgrade (LexEVS 6.4). | We will need to evaluate and update Lucene planning accordingly. |
| As LexEVS 6.3 is being evaluated, issues have been found and need we need to determine if they should be included in LexEVS 6.3. | The LexEVS 6.4 Lucene work will be pushed out if issues found in LexEVS 6.3 need to be fixed and re-deployed in LexEVS 6.3. |
| LexEVS 6.3 may need to be deployed to production. | Initially, LexEVS 6.3 was going to be an internal only release.  Releasing LexEVS 6.3 to production will take additional development resources and will push out the LexEVS 6.4 Lucene timeline. |

## H.    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

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.

## I.    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 |

| Deliverable/Milestone | Delivery Date | Status |
|---|---|---|
| Monthly Technical Reports:<br>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 |
| Monthly Financial Reports:<br>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 |

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

| Activity | Description |
|---|---|
| LexEVS 6.4 Lucene developement | Document project design and architecture and further define our Lucene roadmap.  Start development on Lucene changes. |
| Continued support for LexEVS | Continue to work with the NCI team on new and existing issues. |

## K.     Additional Reporting