

Monthly Technical Status Report

**LexEVS Operations and Maintenance
Subcontract No. 13XS500 – Modification 4**

March 2015

February 1 – February 28, 2015

Submitted by:

Craig Stancl, Scott Bauer, Cory Endle

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A. Technical Overview

LexEVS 6.2 is publicly available on NCI's site and the LexEVS 6.2 project has been closed. It was discovered that the default behavior for LexEVS entity search inadvertently changed in LexEVS 6.2. For backwards compatibility, default searches should return active and inactive entities. The fix in LexEVS 6.2 resulted in the API only returning active entries. This will be fixed in LexEVS 6.3. Work continued on the OWL2 loader enhancements and is being reviewed by the NCI team. The dynamic CTS2 REST API documentation has been completed. We have requested an app scan of this site and we are waiting to hear back the results. Tree updates were made and deployed to resolve some immediate issues. There have also been several external inquiries on LexEVS that were responded to by the development team.

Please see the weekly meeting notes for details:

<https://wiki.nci.nih.gov/display/LexEVS/LexEVS+6.3+and+7.0+Weekly+Meeting+Minutes>

B. Issues Resolved Over the Covered Period

Activity	Description/Comments
Planning for the release of the interim version, 6.3	
OWL2 Updates in process	
Tree extension fixed and deployed	
CTS2 API Documentation completed and deployed to external site. Internal deployment at NCI is being app scanned.	
External questions about LexEVS that were answered by the development team	
Default behavior for LexEVS entity search changed in LexEVS 6.2. Default searches should return active and inactive entities.	

C. New Issues Identified

Activity/Issue	Description to corrective activity/issue
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Activity/Issue	Description to corrective activity/issue
LEXEVS-811	LexEVS should return active and not active entities by default
LEXEVS-810	CTS2 query using inaccurate version
LEXEVS-809	Error searching on descriptions with double hyphens
LEXEVS-583	OWL2 data: restrictions on a class using datatype properties
LEXEVS-614	OWL2 associations and annotations on associations.
LEXEVS-641	OWL2 loader uses VersionIRI, but doesn't have a wide enough column
LEXEVS-684	OWL2 Loader does not properly Parse output from render
LEXEVS-685	OWL2 Loader loads disJointWith association as equivalent class
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)

Activity/Issue	Description to corrective activity/issue
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

Activity/Issue	Description to corrective activity/issue
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

D. New Releases of the Software

Release	Description of the Release
LexEVS 6.2	Publicly available, but no announcement

E. Presentations, Documentation Updates, Community Communication

Activity	Description of the Activity

F. Outstanding Issues Being Actively Worked

Activity/Issue	Description/Comments
LEXEVS-811	LexEVS should return active and not active entities by default
LEXEVS-583	OWL2 data: restrictions on a class using datatype properties
LEXEVS-614	OWL2 associations and annotations on associations.

<u>LEXEVS-641</u>	OWL2 loader uses VersionIRI, but doesn't have a wide enough column
<u>LEXEVS-684</u>	OWL2 Loader does not properly Parse output from render
<u>LEXEVS-685</u>	OWL2 Loader loads disJointWith association as equivalent class
<u>LEXEVS-775</u>	OWL2 Loader - Ontology metadata
<u>LEXEVS-776</u>	OWL2 Loader - external class
<u>LEXEVS-777</u>	OWL2 Loader - datatype property
<u>LEXEVS-778</u>	OWL2 Loader - annotation property
<u>LEXEVS-779</u>	OWL2 Loader - anonymous class (test with unattached restriction)
<u>LEXEVS-780</u>	OWL2 Loader - association, annotation (literal)
<u>LEXEVS-781</u>	OWL2 Loader - association, annotation (anyURI)
<u>LEXEVS-782</u>	OWL2 Loader - association, annotation (string)
<u>LEXEVS-783</u>	OWL2 Loader - annotation on anonymous class (test with unattached restriction)
<u>LEXEVS-784</u>	OWL2 Loader - annotation on association, object + annotation (v1)
<u>LEXEVS-785</u>	OWL2 Loader - annotation on association, annotation (literal)
<u>LEXEVS-786</u>	OWL2 Loader - annotation on association, annotation (anyURI)
<u>LEXEVS-787</u>	OWL2 Loader - annotation on association, annotation (string)
<u>LEXEVS-788</u>	OWL2 Loader - subclassOf, external named class
<u>LEXEVS-789</u>	OWL2 Loader - association internal class (PrognosisGood)

<u>LEXEVS-790</u>	OWL2 Loader - association external class (melanocyte)
<u>LEXEVS-791</u>	OWL2 Loader - equivalentClass, external named class
<u>LEXEVS-792</u>	OWL2 Loader - equivalentClass, intersection named classes
<u>LEXEVS-793</u>	OWL2 Loader - equivalentClass, union named disjoint classes
<u>LEXEVS-794</u>	OWL2 Loader - equivalentClass, complement named class
<u>LEXEVS-795</u>	OWL2 Loader - equivalentClass, some datatype restriction
<u>LEXEVS-796</u>	OWL2 Loader - equivalentClass, all datatype restriction
<u>LEXEVS-797</u>	OWL2 Loader - equivalentClass, datatype hasValue (inconsistent class)
<u>LEXEVS-798</u>	OWL2 Loader - equivalentClass, some objectype restriction
<u>LEXEVS-799</u>	OWL2 Loader - equivalentClass, some objectype restriction external class
<u>LEXEVS-800</u>	OWL2 Loader - equivalentClass, all objectype restriction external class
<u>LEXEVS-801</u>	OWL2 Loader - equivalentClass, all objectype restriction
<u>LEXEVS-802</u>	OWL2 Loader - equivalentClass, object hasValue
<u>LEXEVS-803</u>	OWL2 Loader - equivalentClass, intersection object restrictions
<u>LEXEVS-804</u>	OWL2 Loader - equivalentClass, union object restrictions
<u>LEXEVS-805</u>	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

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.

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>

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:		Complete
October 2014	11/10/2014	
November 2014	12/10/2014	
December 2014	01/10/2015	
January 2015	02/10/2015	
February 2015	03/10/2015	
Monthly Financial Reports:		Complete
October 2014	11/10/2014	
November 2014	12/10/2014	
December 2015	01/10/2015	
January 2015	02/10/2015	
February 2015	03/10/2015	

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

Activity	Description
Wrap up work on OWL2 that was extended to cover a number of new requirements.	
Final Deployment and internal release of 6.3.	
Begin Lucene Implementation.	

K. Additional Reporting

The majority of this month was spent working on the OWL2 enhancements. Once this work is complete, the team will start work on the Lucene update. It was also decided that LexEVS 6.3 (which will contain the OWL2 enhancements) would be deployed internally at NCI in order for the NCI team to develop new features for their browsers.