

# **Monthly Technical Status Report**

**LexEVS Operations and Maintenance  
Subcontract No. 16X237  
Option Year 2**

**October 2019**  
October 1 – October 31, 2019

**Submitted by:**

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

**Date:**  
**November 10, 2019**

# Contents

- Monthly Technical Status Report..... 1
- A. Technical Overview ..... 3
- B. New Releases of the Software ..... 4
- C. Presentations, Documentation Updates, Community Communication ..... 4
- D. Outstanding Issues Being Actively Worked ..... 4
- E. Critical Risks or External Dependencies ..... 4
- F. Status of Deliverables/Milestones Overview..... 4
- G. Status of Deliverables ..... 5
- H. Description of Work/Activities Planned for the next Month ..... 8
- I. Additional Reporting ..... 8

## A. Technical Overview

Sprint 118 (September 26, 2019 – October 9, 2019) has been completed. In this sprint, the team made enhancements to the graph loader, improved the robustness of the graph database startup and updated the graph loader tests. Work was also started on the graph resolve REST service.

Sprint 119 (October 10, 2019 – October 23, 2019) has been completed. In this sprint, the team added the ability to load version specific loads to the graph loader, as well as continued work on the graph resolve REST service.

Sprint 120 (October 24, 2019 – November 6, 2019) 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 118    | <a href="#">LexEVS Development - Sprint 118</a> | LexEVS 6.5 Sprint 118 Stories                                      |
| Sprint 118    | <a href="#">LEXEVS-4721</a>                     | Scaling tests on DataDev   |
| Sprint 118    | <a href="#">LEXEVS-4725</a>                     | Implement the Interactive Coding Scheme Pick List for Graph Loader |
| Sprint 118    | <a href="#">LEXEVS-4741</a>                     | Improve robustness of graph database startup in LexEVS             |
| Sprint 118    | <a href="#">LEXEVS-4743</a>                     | Create a running code prototype rest service                       |
| Sprint 118    | <a href="#">LEXEVS-4744</a>                     | Update tests to reflect new capabilities of the Graph Loader       |
| Sprint 119    | <a href="#">LexEVS Development - Sprint 119</a> | LexEVS 6.5 Sprint 119 Stories                                      |
| Sprint 119    | <a href="#">LEXEVS-4751</a>                     | Add error handling to REST API                                     |
| Sprint 119    | <a href="#">LEXEVS-4752</a>                     | Add ability to load version specific loads to the graph loader.    |
| Sprint 119    | <a href="#">LEXEVSREM-414</a>                   | Update build to include ArangoDB required jars                     |
| Sprint 119    | <a href="#">LEXGRAPH-1</a>                      | Integrate ArangoDB metadata elements into REST API                 |

| Sprint     | Activity                       | Description/Comments                           |
|------------|--------------------------------|--|
| Sprint 119 | <a href="#">LEXSYSTEST-156</a> | Investigate the broken build on the Dev branch |

## **B. New Releases of the Software**

| Release | Description of the Release |
|---------|----------------------------|
|         |                            |

## **C. Presentations, Documentation Updates, Community Communication**

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

## **D. Outstanding Issues Being Actively Worked**

| Sprint     | Activity/Issue                                  | Description/Comments                                |
|------------|---|---|
| Sprint 120 | <a href="#">LexEVS Development - Sprint 120</a> | LexEVS 6.5 Sprint 120 Stories                       |
| Sprint 120 | <a href="#">LEXEVS-4779</a>                     | Design Task for Graph Iterator API                  |
| Sprint 120 | <a href="#">LEXEVS-4780</a>                     | Add graph db tests to the main test suite           |
| Sprint 120 | <a href="#">LEXSYSTEST-157</a>                  | Create Docker Support for Graph DB creation/loading |

## **E. Critical Risks or External Dependencies**

| Activity/Issue | Description to corrective activity/issue |
|----------------|--|
|                |  |

## **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 summary. This site will evolve throughout the lifecycle of this project.

## G. Status of Deliverables

| <b>Deliverable/Milestone</b>   | <b>Delivery Date</b>              | <b>Status</b> |
|--------------------------------|-----------------------------------|---------------|
| 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 | Ongoing                           | In Process    |
| Provide Technical Expertise    | Ongoing                           | In Process    |
| Project Wiki                   | 10/20/2017                        | Complete      |

| <b>Deliverable/Milestone</b> | <b>Delivery Date</b> | <b>Status</b> |
|------------------------------|----------------------|---------------|
| 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      |
| April 2017                   | 05/10/2017           | Complete      |
| May 2017                     | 06/10/2017           | Complete      |
| June 2017                    | 07/10/2017           | Complete      |
| July 2017                    | 08/10/2017           | Complete      |
| August 2017                  | 09/10/2017           | Complete      |
| September 2017               | 10/10/2017           | Complete      |
| October 2017                 | 11/10/2017           | Complete      |
| November 2017                | 12/10/2017           | Complete      |
| December 2017                | 01/10/2018           | Complete      |
| January 2018                 | 02/10/2018           | Complete      |
| February 2018                | 03/10/2018           | Complete      |
| March 2018                   | 04/10/2018           | Complete      |
| April 2018                   | 05/10/2018           | Complete      |
| May 2018                     | 06/10/2018           | Complete      |
| June 2018                    | 07/10/2018           | Complete      |
| July 2018                    | 08/10/2018           | Complete      |
| August 2018                  | 09/10/2018           | Complete      |
| September 2018               | 10/10/2018           | Complete      |
| October 2018                 | 11/10/2018           | Complete      |
| November 2018                | 12/10/2018           | Complete      |
| December 2018                | 01/10/2019           | Complete      |
| January 2019                 | 02/10/2019           | Complete      |
| February 2019                | 03/10/2019           | Complete      |
| March 2019                   | 04/10/2019           | Complete      |
| April 2019                   | 05/10/2019           | Complete      |
| May 2019                     | 06/10/2019           | Complete      |
| June 2019                    | 07/10/2019           | Complete      |
| July 2019                    | 08/10/2019           | Complete      |
| August 2019                  | 09/10/2019           | Complete      |
| September 2019               | 10/10/2019           | Complete      |
| October 2019                 | 11/10/2019           | 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      |
| April 2017                   | 05/10/2017           | Complete      |
| May 2017                     | 06/10/2017           | Complete      |
| June 2017                    | 07/10/2017           | Complete      |
| July 2017                    | 08/10/2017           | Complete      |
| August 2017                  | 09/10/2017           | Complete      |
| September 2017               | 10/10/2017           | Complete      |
| October 2017                 | 11/10/2017           | Complete      |
| November 2017                | 12/10/2017           | Complete      |
| December 2017                | 01/10/2018           | Complete      |
| January 2018                 | 02/10/2018           | Complete      |
| February 2018                | 03/10/2018           | Complete      |
| March 2018                   | 04/10/2018           | Complete      |
| April 2018                   | 05/10/2018           | Complete      |
| May 2018                     | 06/10/2018           | Complete      |
| June 2018                    | 07/10/2018           | Complete      |
| July 2018                    | 08/10/2018           | Complete      |
| August 2018                  | 09/10/2018           | Complete      |
| September 2018               | 10/10/2018           | Complete      |
| October 2018                 | 11/10/2018           | Complete      |
| November 2018                | 12/10/2018           | Complete      |
| December 2018                | 01/10/2019           | Complete      |
| January 2019                 | 02/10/2019           | Complete      |
| February 2019                | 03/10/2019           | Complete      |
| March 2019                   | 04/10/2019           | Complete      |
| April 2019                   | 05/10/2019           | Complete      |
| May 2019                     | 06/10/2019           | Complete      |
| June 2019                    | 07/10/2019           | Complete      |
| July 2019                    | 08/10/2019           | Complete      |
| August 2019                  | 09/10/2019           | Complete      |
| September 2019               | 10/10/2019           | Complete      |
| October 2019                 | 11/10/2019           | Complete      |

| Deliverable/Milestone  | Delivery Date                     | Status      |
|------------------------|-----------------------------------|-------------|
| Project Summary Report | 30 Days Before Project Completion | Not Started |

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

| Activity  | Description  |
|---|--|
| 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>                                     |
| Docker Development  | <ul style="list-style-type: none"> <li>Work on deploying LexEVS components as Docker containers.</li> </ul>  |
| Ongoing Features/Issue resolution                             | <ul style="list-style-type: none"> <li>Continue to work on requested features and issues in our Jira backlog.</li> </ul>                             |
| Implement Graph DB  | <ul style="list-style-type: none"> <li>New LexEVS feature to improve performance when estimating coded node iterator number remaining.</li> </ul>    |
| Implement graph resolve REST service                          | <ul style="list-style-type: none"> <li>New REST service over the graph DB.</li> </ul>  |
| Implement testing for graph db and graph resolve REST service | <ul style="list-style-type: none"> <li>Implement integration/system testing for graph db and graph resolve REST service in Jenkins/Docker</li> </ul> |

## I. Additional Reporting

| Activity      | Description  |
|---------------|--|
| Sprint Status | <ul style="list-style-type: none"> <li><a href="#">Sprint 118</a></li> <li><a href="#">Sprint 119</a></li> <li><a href="#">Sprint 120</a></li> </ul> |