# Monthly Technical Status Report

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

**November 2019**
November 1 – November 30, 2019

**Submitted by:**

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**Date:**
**December 10, 2019**

# Contents

# A. Technical Overview

Sprint 120 (October 24, 2019 – November 6, 2019) has been completed. The team completed Design for the graph Iterator API.  We also wrote test sets for the graph database and created Docker support for Graph DB creation and Loading.

Sprint 121 (November 7, 2019 – November 20, 2019) has been completed. In this sprint, the team the team implemented the Query DAO layer for the graphing database.  We also implemented supporting services for the Text/Graph hybrid integration.  We added a feature to allow a determination of how many levels of a graph/tree would be resolved.  Docker support for deployment of the Graph Rest Controller was completed for the system test.

We changed the function of the qualifier query where queries were being made against source type qualifiers of properties.  Backwards compatibility testing was completed against 6.5.3.

Sprint 122 (November 21, 2019 – December 4, 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:

| Sprint | Activity | Description/Comments |
|---|---|---|
| Sprint 120 | LEXEVS-4779 | Design Task for Graph Iterator API |
| Sprint 120 | LEXEVS-4780 | Add graph db tests to the main test suite |
| Sprint 120 | LEXSYSTEST-157 | Create Docker Support For Graph DB creation/loading |
| Sprint 121 | LEXEVS-4697 | Implement Query DAO Layer for Arango DB graph |
| Sprint 121 | LEXEVS-4698 | Implement supporting services for Text/Graph integration |
| Sprint 121 | LEXEVS-4768 | Source_code qualifier attribute value will be indexed without normalization |
| Sprint 121 | LEXEVS-4784 | Source-code search yields unexpected results. |
| Sprint 121 | LEXEVS-4791 | Backwards Compatibility with LexEVS Remote API v6.5.3 |

| Sprint | Activity | Description/Comments |
|---|---|---|
| Sprint 121 | LEXGRAPH-6 | Adding a single step or user determined query method to the REST API |
| Sprint 121 | LEXSYSTEST-163 | Create support for Docker container to deploy Graph Rest Controller |

## 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 122 | LEXSYSTEST-167 | Add graph resolve API tests to system tests |
| Sprint 122 | LEXEVS-4803 | Add a parameter for source-name to get the source for a given presentation |
| Sprint 122 | LEXEVS-4795 | Unit test restructure to skip test if no connection |
| Sprint 122 | LEXEVS-4792 | Implement methods to retrieve immediate neighbors of a start vertex |

## 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.    <u>Status of Deliverables</u>

| 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 | Ongoing | In Process |
| Provide Technical Expertise | Ongoing | In Process |
| Project Wiki | 10/20/2017 | Complete |

| Deliverable/Milestone | Delivery Date | Status |
|---|---|---|
| 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 |
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| September 2019 | 10/10/2019 | Complete |
| October 2019 | 11/10/2019 | Complete |

| Deliverable/Milestone | Delivery Date | Status |
|---|---|---|
| Monthly Financial Reports: | | |
| October 2016 | 11/10/2016 | Complete |
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| 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 | • Continue to work with the NCI team on new and existing issues. |
| Docker Development | • Work on deploying LexEVS components as Docker containers. |
| Ongoing Features/Issue resolution | • Continue to work on requested features and issues in our Jira backlog. |
| Implement Graph DB | • New LexEVS feature to improve performance when estimating coded node iterator number remaining. |
| Implement graph resolve REST service | • New REST service over the graph DB. |
| Implement testing for graph db and graph resolve REST service | • Implement integration/system testing for graph db and graph resolve REST service in Jenkins/Docker |

## I.  Additional Reporting

| Activity | Description |
|---|---|
| Sprint Status | • Sprint 118<br>• Sprint 119<br>• Sprint 120 |