Monthly Technical Status Report

**LexEVS Operations and Maintenance**

**Subcontract No. 16X237**

**Option Year 2**

**November 2019**

November 1 – November 30, 2019

**Submitted by:**

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

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# 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](https://tracker.nci.nih.gov/browse/LEXEVS-4779) | Design Task for Graph Iterator API |
| Sprint 120 | [LEXEVS-4780](https://tracker.nci.nih.gov/browse/LEXEVS-4780) | Add graph db tests to the main test suite |
| Sprint 120 | [LEXSYSTEST-157](https://tracker.nci.nih.gov/browse/LEXSYSTEST-157) | Create Docker Support For Graph DB creation/loading |
| Sprint 121 | [LEXEVS-4697](https://tracker.nci.nih.gov/browse/LEXEVS-4697) | Implement Query DAO Layer for Arango DB graph |
| Sprint 121 | [LEXEVS-4698](https://tracker.nci.nih.gov/browse/LEXEVS-4698) | Implement supporting services for Text/Graph integration |
| Sprint 121 | [LEXEVS-4768](https://tracker.nci.nih.gov/browse/LEXEVS-4768) | Source\_code qualifier attribute value will be indexed without normalization |
| Sprint 121 | [LEXEVS-4784](https://tracker.nci.nih.gov/browse/LEXEVS-4784) | Source-code search yields unexpected results. |
| Sprint 121 | [LEXEVS-4791](https://tracker.nci.nih.gov/browse/LEXEVS-4791) | Backwards Compatibility with LexEVS Remote API v6.5.3 |
| Sprint 121 | [LEXGRAPH-6](https://tracker.nci.nih.gov/browse/LEXGRAPH-6) | Adding a single step or user determined query method to the REST API |
| Sprint 121 | [LEXSYSTEST-163](https://tracker.nci.nih.gov/browse/LEXSYSTEST-163) | Create support for Docker container to deploy Graph Rest Controller |

# New Releases of the Software

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

# Presentations, Documentation Updates, Community Communication

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

# Outstanding Issues Being Actively Worked

| **Sprint** | **Activity/Issue** | **Description/Comments** |
| --- | --- | --- |
| Sprint 122 | [LEXSYSTEST-167](https://tracker.nci.nih.gov/browse/LEXSYSTEST-167) | Add graph resolve API tests to system tests |
| Sprint 122 | [LEXEVS-4803](https://tracker.nci.nih.gov/browse/LEXEVS-4803) | Add a parameter for source-name to get the source for a given presentation |
| Sprint 122 | [LEXEVS-4795](https://tracker.nci.nih.gov/browse/LEXEVS-4795) | Unit test restructure to skip test if no connection |
| Sprint 122 | [LEXEVS-4792](https://tracker.nci.nih.gov/browse/LEXEVS-4792) | Implement methods to retrieve immediate neighbors of a start vertex |

# Critical Risks or External Dependencies

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

# 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.

# 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 | Ongoing | In Process |
| Provide Technical Expertise | Ongoing | In Process |
| Project Wiki | 10/20/2017 | Complete |
| Monthly Technical Reports:  October 2016  November 2016  December 2016  January 2017  February 2017  March 2017  April 2017  May 2017  June 2017  July 2017  August 2017  September 2017  October 2017  November 2017  December 2017  January 2018  February 2018  March 2018  April 2018  May 2018  June 2018  July 2018  August 2018  September 2018  October 2018  November 2018  December 2018  January 2019  February 2019  March 2019  April 2019  May 2019  June 2019  July 2019  August 2019  September 2019  October 2019 | 11/10/2016  12/10/2016  01/10/2017  02/10/2017  03/10/2017  04/10/2017  05/10/2017  06/10/2017  07/10/2017  08/10/2017  09/10/2017  10/10/2017  11/10/2017  12/10/2017  01/10/2018  02/10/2018  03/10/2018  04/10/2018  05/10/2018  06/10/2018  07/10/2018  08/10/2018  09/10/2018  10/10/2018  11/10/2018  12/10/2018  01/10/2019  02/10/2019  03/10/2019  04/10/2019  05/10/2019  06/10/2019  07/10/2019  08/10/2019  09/10/2019  10/10/2019  11/10/2019 | Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete |
| Monthly Financial Reports:  October 2016  November 2016  December 2016  January 2017  February 2017  March 2017  April 2017  May 2017  June 2017  July 2017  August 2017  September 2017  October 2017  November 2017  December 2017  January 2018  February 2018  March 2018  April 2018  May 2018  June 2018  July 2018  August 2018  September 2018  October 2018  November 2018  December 2018  January 2019  February 2019  March 2019  April 2019  May 2019  June 2019  July 2019  August 2019  September 2019  October 2019 | 11/10/2016  12/10/2016  01/10/2016  02/10/2017  03/10/2017  04/10/2017  05/10/2017  06/10/2017  07/10/2017  08/10/2017  09/10/2017  10/10/2017  11/10/2017  12/10/2017  01/10/2018  02/10/2018  03/10/2018  04/10/2018  05/10/2018  06/10/2018  07/10/2018  08/10/2018  09/10/2018  10/10/2018  11/10/2018  12/10/2018  01/10/2019  02/10/2019  03/10/2019  04/10/2019  05/10/2019  06/10/2019  07/10/2019  08/10/2019  09/10/2019  10/10/2019  11/10/2019 | Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Complete |
| Project Summary Report | 30 Days Before Project Completion | Not Started |

# 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 |

# Additional Reporting

| **Activity** | **Description** |
| --- | --- |
| Sprint Status | * [Sprint 118](https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=374&view=reporting&chart=sprintRetrospective&sprint=2065) * [Sprint 119](https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=374&view=reporting&chart=sprintRetrospective&sprint=2086) * [Sprint 120](https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=374&view=reporting&chart=sprintRetrospective&sprint=2097) |