|  |
| --- |
| Document ID: LST-1136  Revision ID: 0  Effective Date: 01/15/2019 |
|  |
|  |
| **List** |
| RAVEN Configuration Items List |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Applicability: | Configuration Items List |  | eCR Number: |  |
| Manual: | | | | |

REVISION LOG

| Rev. | Date | Affected Pages | Revision Description |
| --- | --- | --- | --- |
| 0 | 01/15/2019 | All | Creation of the Configuration Items List |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CONTENTS

[1. PURPOSE 4](#_Toc532223945)

[2. SCOPE 4](#_Toc532223946)

[3. RESPONSIBILITIES 4](#_Toc532223947)

[4. LIST 4](#_Toc532223948)

[4.01 Software, Hardware, and Documentation 4](#_Toc532223949)

# PURPOSE

This document identifies all Risk Analysis Virtual Environment (RAVEN) software *configuration items (CIs)* (see def.). This document also identifies the level designation needed to modify CIs that can potentially affect the ability of RAVEN to comply with NQA-1.

# SCOPE

This list is intended to identify all CIs for RAVEN and RAVEN Plug-Ins, to provide a document to submit into the EA repository, and an aid to identify how severe a change to RAVEN will be.

# RESPONSIBILITIES

The Asset Owner is responsible for maintaining this list and, when necessary, updating the EA repository when the configuration items list changes.

The Asset Owner is also responsible for maintaining configuration management in accordance with PLN-5552, “RAVEN and RAVEN Plug-ins Software Quality Assurance Plan.”

# LIST

## Software, Hardware, and Documentation

| Table 1. Software, Hardware, and Documentation | | | |
| --- | --- | --- | --- |
| **Configuration Item** | **Component** | **Description** | **Repository/Location** |
| **Application Source Code** | RAVEN | Source Code for RAVEN | **GITHUB** |
| **System Software** | Python 2.x/3.x | RAVEN Software language |  |
|  | C++ | RAVEN Software language |  |
|  | Unix-compatible systems | Any compatible Unix system (or Unix-like) |  |
| **Support Software** | CIVET | Continuous Integration, Verification, Enhancement, and Testing. This is the continuous integration system used by RAVEN for automatic testing. | **GITHUB**  **Installed in all the Regression Automatic Test Machines (Test Servers)** |
|  | MOOSE | Multiphysics Object Oriented Simulation Environment framework. Only the regression test system (Test Harness) of this software is used. | **GITHUB** |
| **Hardware** | Test Servers | These servers are used to test the RAVEN functionality. It will use a “snapshot” of live data to perform the tests. If testing on the server fails, that version of RAVEN is sent back to the Development Server for further configuration. | General Purpose Enclave  EROB/IORC |
|  | Workstations  Laptops  Personal Computer | These consist of computer terminals that the end users use to access the software. | N/A |
| **Documentation** | SDD-000649 | RAVEN Safety Software Determination | EDMS |
|  |  | RAVEN Quality Level Determination | EDMS |
|  | Entry #331229 | RAVEN Enterprise Architecture | EDMS |
|  | PLN-5552 | RAVEN and RAVEN Plug-ins Software Quality Assurance Plan | EDMS |
|  | PLN-5552 | RAVEN and RAVEN Plug-ins Configuration Management Plan | EDMS |
|  | PLN-5552 | RAVEN Software Test Plan and V&V | EDMS |
|  | PLN-5552 | RAVEN and RAVEN Plug-ins Asset Maintenance Plan | EDMS |
|  | SPC-2366 | RAVEN Software Requirements Specification and Traceability Matrix | EDMS |
|  | SDD-513 | RAVEN Software Design Description | EDMS |
|  | INL/EXT-15-34123 | RAVEN User Manual | GITHUB |
|  | INL/EXT-18-44465 | RAVEN Theory Manual | GITHUB |
|  | INL/EXT-16-38178 | RAVEN User Guide | GITHUB |