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| Document ID: LST-1296  Revision ID: 0  Effective Date: 10/01/2020 |
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| **List** |
| HYBRID Configuration Items List |

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

REVISION LOG

| Rev. | Date | Affected Pages | Revision Description |
| --- | --- | --- | --- |
| 0 | 09/15/2020 | All | Creation of the Configuration Items List |
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CONTENTS

[1. PURPOSE 4](#_Toc15451642)

[2. SCOPE 4](#_Toc15451643)

[3. RESPONSIBILITIES 4](#_Toc15451644)

[4. LIST 4](#_Toc15451645)

[4.01 Software, Hardware, and Documentation 4](#_Toc15451646)

# PURPOSE

This document identifies all HYBRID Software *configuration items (CIs)* (see def.). This document also identifies the level designation needed to modify CIs that can potentially affect the ability of HYBRID Software to comply with NQA-1.

# SCOPE

This list is intended to identify all CIs for HYBRID Software, to provide a document to submit into the CTM (<https://ctm.inl.gov>) repository, and an aid to identify how severe a change to HYBRID Software 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-6274, “HYBRID Software Quality Assurance and Maintenance and Operations Plan.”

# LIST

## Software, Hardware, and Documentation

| Table 1. Software, Hardware, and Documentation | | | |
| --- | --- | --- | --- |
| **Configuration Item** | **Component** | **Description** | **Repository/Location** |
| **Application Source Code** | HYBRID Software | Source Code and tools for HYBRID Software | GITHUB (<https://github.com/idaholab/HYBRID>) |
|  | RAVEN | Source Code for the RAVEN code. The HYBRID Software requires RAVEN for some workflows to be functional. | GITHUB (<https://github.com/idaholab/raven>) |
| **System Software** | Modelica language | HYBRID Software modeling language ***(Current versions are maintained in the CTM repository)*** | [Capabilities ＆ Technology Management](https://ctm.inl.gov/ng/ctm/tabs/B3D94358-2BC6-46E8-8A7A-9367770A748C/E3232AB1-CF1E-4EF8-BC56-EFE1C1BE6526/search/details/6A036664-F7CA-4E6A-9CED-163A6237388B/cb6b) (CTM) (3C9B336C-8262-4790-AEBD-582B1BD85CF5 |
|  | Python 3.x | HYBRID Software workflow language ***(Current versions are maintained in the CTM repository)*** | [Capabilities ＆ Technology Management](https://ctm.inl.gov/ng/ctm/tabs/B3D94358-2BC6-46E8-8A7A-9367770A748C/E3232AB1-CF1E-4EF8-BC56-EFE1C1BE6526/search/details/6A036664-F7CA-4E6A-9CED-163A6237388B/cb6b) (CTM) (UUID: 3C9B336C-8262-4790-AEBD-582B1BD85CF5) |
|  | Unix-compatible systems | Any compatible Unix system (or Unix-like) | N/A |
|  |  |  |  |
| **Support Software** | GITHUB CI | Continuous Integration, Verification, Enhancement, and Testing. This is the continuous integration system used by TEAL for automatic testing. | GITHUB  Installed in all the Regression Automatic Test Machines (Test Servers) |
| **Hardware** | Test Servers | These servers are used to test the HYBRID Software functionality. It will use a “snapshot” of live data to perform the tests. If testing on the server fails, that version of HYBRID Software is sent back to the Development Server for further configuration.  ***(Complete and up-to-date list of servers is maintained in CTM repository)*** | General Purpose Enclave  EROB |
|  | Workstations  Laptops  Personal Computer | These consist of computer terminals that the end users use to access the software. | N/A |
| **Documentation** | SDD-000753 | HYBRID Safety Software Determination | EDMS |
|  | ALL-XXXX | HYBRID Quality Level Determination | EDMS |
|  | UUID: CE17AF70-BAB9-46E6-9BB8-74484B7F1791 | TEAL [Capabilities ＆ Technology Management](https://ctm.inl.gov/ng/ctm/tabs/B3D94358-2BC6-46E8-8A7A-9367770A748C/E3232AB1-CF1E-4EF8-BC56-EFE1C1BE6526/search/details/11C844B6-31DA-4AD6-B20B-1F7B14B6336E/77b8) (CTM) | EDMS |
|  | PLN-6274 | HYBRID Software Quality Assurance Plan | EDMS |
|  | PLN-6274 | HYBRID Configuration Management Plan | EDMS |
|  | PLN-6274 | HYBRID Software Test Plan and V&V | EDMS |
|  | PLN-6274 | HYBRID Asset Maintenance Plan | EDMS |
|  | SPC-2990 | HYBRID Software Requirements Specification and Traceability Matrix | EDMS |
|  | SDD-561 | HYBRID Software Design Description | EDMS |
|  | SPC-2990 | HYBRID Software Requirements Specification and Traceability Matrix | EDMS |
|  | INL/MIS-20-60624 | HYBRID User Manual | GITHUB |
|  |  |  |  |