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| Document ID: LST-1346  Revision ID: 0  Effective Date: 02/24/2022 |
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| **List** |
| FORCE Configuration Items List |

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

REVISION LOG

| Rev. | Date | Affected Pages | Revision Description |
| --- | --- | --- | --- |
| 0 | 02/24/2022 | All | Creation of the Configuration Items List |
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# PURPOSE

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

# SCOPE

This list is intended to identify all CIs for FORCE 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 FORCE 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-6552, “FORCE 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** | FORCE Software | Source Code and tools for FORCE Software | TBD when uploaded |
|  | RAVEN | Source Code for the RAVEN code. FORCE requires RAVEN for some workflows to be functional. | GITHUB (<https://github.com/idaholab/raven>) |
|  | HERON | Source code for HERON. FORCE is reliant on HERON to solve certain types of problems. | GITHUB (<https://github.com/idaholab/heron>) |
|  | TEAL | Source code for TEAL. FORCE is reliant on TEAL to solve certain types of problems | GITHUB (<https://github.com/idaholab/teal>) |
|  | HYBRID | Source code for HYBRID. FORCE is reliant on HYBRID to solve certain types of problems. | GITHUB (<https://github.com/idaholab/hybrid>) |
| **System Software** | Modelica language | HYBRID Software modeling language ***(Current versions are maintained in the HYBRID 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 |
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| **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 FORCE Software functionality. It will use a “snapshot” of live data to perform the tests. If testing on the server fails, that version of FORCE 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-000786 | FORCE Safety Software Determination | EDMS |
|  | ALL-000916 | FORCE Quality Level Determination | EDMS |
|  | PLN-6552 | FORCE Software Quality Assurance Plan | EDMS |
|  | PLN-6552 | FORCE Configuration Management Plan | EDMS |
|  | PLN-6552 | FORCE Software Test Plan and V&V | EDMS |
|  | PLN-6552 | FORCE Asset Maintenance Plan | EDMS |
|  | SPC-3171 | FORCE Software Requirements Specification and Traceability Matrix | EDMS |
|  | SDD-584 | FORCE Software Design Description | EDMS |
|  | SPC-3171 | FORCE Software Requirements Specification and Traceability Matrix | EDMS |
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