Change Log

| **Revision** | **Submission Date** | **Affected Sections or Pages** | **Change Summary** |
| --- | --- | --- | --- |
| Initial | 12-10-2019 | All | Initial issue of document. |

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# Document Overview

## Identification

| **Property** | **Value** |
| --- | --- |
| Configuration ID (CI) |  |
| Element |  |
| Program Set |  |
| Version |  |

## Purpose

This document will guide a user through installing AERIE. AERIE is a new software system being developed by the MPSA element of Multi-mission Ground System and Services (MGSS), a subsystem of AMMOS (Advanced Multi-mission Operations System). AERIE will support activity planning, sequencing, and spacecraft analysis of mission operations. This guide will be updated as features are added.

## Terminology and Notation

|  |  |
| --- | --- |
| Term | Meaning |
| AMMOS | Advanced Multi-Mission Operations System |
| MGSS | Multi-Mission Ground Systems and Services |
| MPSA | Mission Planning, Sequencing and Analysis |
| YAML | Markup language |
| Docker | Software platform for building applications based on containers |
| Artifactory | Repository manager |
|  |  |
|  |  |

## References

Add references to the following two tables, as necessary. Add revision identifiers, as necessary.

Table 1: Applicable JPL Rules Documents

| **Title** | **DocID** |
| --- | --- |
| Software Development | 57653 |

Table 2: Applicable MGSS Documents

| **Title** | **Document Number** |
| --- | --- |
| MGSS Implementation and Task Requirements | DOC-001455 |
| The architecture description document |  |
| The software design document(s) |  |
| The software interface specification(s) |  |

# Product Requirements

Identify the hardware and software requirements for a host environment.

# Adaptation

## Planned Adaptations

Identify the specific adaptations that the task expected missions to perform.

## Adaptation Procedures

Provide instructions to missions how to perform each planned adaptation.

# Administration

Provide instructions for administering the product. Add new sections as necessary.

## Environment Variables

Identify the environment variables required by the software in the test and deployment environments and how to edit them. If the environment variables in the test and deployment environments are different or have different values, create two tables – one for the deployment environment and the other for the test environment. These variables should document global variables (e.g., defined in a shell) and local variables (e.g., defined in a script or configuration file). See Appendix B of AMMOS Environment Variables (MGSS DOC-001651) for more information.

Table 3: Environment Variables

| **Variable Name** | **Default Value** | **Description** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Network Communications

Identify the TCP/UDP ports used by the product (including ports used by SCSE services that the product uses) and the default port assignments. Identify how they can be configured differently and what the network access and security issues are.

Include a listing of the used TCP/UDP ports and provide a brief description of the service accessed through each port.

Table 4: TCP/UDP Port Information

| **Port Type** | **Default Port #** | **Description** |
| --- | --- | --- |
| TCP | 1008 |  |
| UDP |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Users and Groups

Identify the users and groups created or used by the product for its file and directory ownerships and process execution.

| **User/Group** | **File/Directory Ownerships** | **File/Directory Privileges** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Administration Procedures

Identify procedures administrating the product (e.g., software configuration and restoring from backups).

# Product Support

## Defect Reporting Procedure

Identify the procedure for reporting defects.

## Points of Contact

Provide Points of contact for trouble-shooting, adaptation, and general help.

Table 5: Points of Contact

| **Type** | **Point of Contact** |
| --- | --- |
| Adaptation | … |
| Administration | … |
| General Help | … |

1. Build Instructions

If applicable, provide the necessary instructions for building and executing the newly released version or reference a document that provides this information. These include the procedures (automatic and manual) to compile, link, and load the executable products and any checks or verification for validity prior to execution. In case of uploadable software all checksums and/or Cyclic Redundancy Check (CRC) for the file (s) should also be specified. Also, provide a point of contact for resolving problems.

1. Installation Instructions

If applicable, specify any instructions for installation of the software (executable products) or reference a document that provides this information.

1. A Sample Appendix

Provide a list of error messages generated each with a brief description.