

The Birds Project

The libBirds Library, Software Configuration Management Plan

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1. Purpose of the SCMP Document

This is a standard "Software Configuration Management Plan" document, corresponding to the guidelines in RTCA DO-178B. In the words of DO-178B, it "establishes the methods to be used to achieve the objectives of the software configuration management (SCM) process throughout the software life cycle."

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2. SCM Environment

2.1. Procedures

TBD

2.2. Tools

TBD

2.3. Methods

TBD

2.4. Standards

TBD

2.5. Organizational Responsibilities

TBD

2.6. Interfaces

TBD

3. SCM Activities

3.1. Configuration Identification

3.1.1. Items to be identified

TBD

3.1.2. Time at which Items are Identified

TBD

3.1.3. Identification Methods

TBD

3.1.4. Software Identification vs. Equipment Identification

TBD

3.2. Baselines and Traceability

3.2.1. Means of Establishing Baselines

TBD

3.2.2. What Baselines are Established

TBD

3.2.3. When Baselines are Established

TBD

3.2.4. Software Library Controls

TBD

3.2.5. Configuration Item and Baseline Traceability

TBD

3.3. Problem Reporting

3.3.1. Content and Identification of Problem Reports

TBD

3.3.2. Time of Creation of Problem Reports

TBD

3.3.3. Method of Closing Problem Reports

TBD

3.3.4. Relationship to Change-Control Activity

TBD

3.4. Change Control

3.4.1. Items and Baselines to be Controlled

TBD

3.4.2. Time at which Control Occurs

TBD

3.4.3. Activities Providing Control

TBD

3.4.4. Pre-Certification Controls

TBD

3.4.5. Post-Certification Controls

TBD

3.4.6. Means of Preserving Integrity

TBD

3.5. Change Review

3.5.1. Method of Handling Feedback

TBD

3.5.2. Method of Assessing Problems

TBD

3.5.3. Method of Approving Changes

TBD

3.5.4. Handling Resolution or Change Implementation

TBD

3.5.5. Relation to Problem-Reporting and Change-Control

TBD

3.6. Configuration Status Accounting

3.6.1. Data for Reporting CM Status

TBD

3.6.2. Storage of CM-Status Data

TBD

3.6.3. Retrieval of CM-Status Data

TBD

3.6.4. Availability of CM-Status Data

TBD

3.7. Archive, Retrieval, and Release

3.7.1. Archive Method

TBD

3.7.2. Integrity Controls

TBD

3.7.3. Release Method

TBD

3.7.4. Authority for Release

TBD

3.7.5. Data Retention

TBD

3.8. Software Load Control

3.8.1. Load-Control Safeguards

TBD

3.8.2. Load-Control Records

TBD

3.9. Software Life-Cycle Environment Controls

3.9.1. TBD Title of a development tool

3.9.1.1. Configuration Identification

TBD

3.9.1.2. Baselines and Traceability

TBD

3.9.1.3. Problem Reporting

TBD

3.9.1.4. Change Control

TBD

3.9.1.5. Change Review

TBD

3.9.1.6. Configuration Status Accounting

TBD

3.9.1.7. Archive, Retrieval, and Release

TBD

3.10. Software Life-Cycle Data Controls

3.10.1. Control-Category 1

TBD

3.10.2. Control-Category 2

TBD

4. SCM Transition Criteria

TBD

5. SCM Data

TBD

5.1. SCM Records

TBD

5.2. Software Configuration Index

TBD

5.3. Software Life Cycle Environment Configuration Index

TBD

6. Supplier Control

TBD

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