

The Birds Project

The libBirds Library, Software Verification Cases and Procedures

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Version 0.5

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1. Purpose of the SVCP Document

This is a standard "Software Verification Cases and Procedures" document, corresponding to the guidelines in RTCA DO-178B. It details the software verification activities, in particular providing test cases and test procedures to be performed on the software under development.

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TEST RECORD

Technician(s): _____

Test Dates: _____

Version Code: _____

Number of items failed: _____

Materials attached: _____

2. System Functions

2.1. TBD name of a design-breakdown item

Traceability: SDD section 2.3.1 → SVCP section 2.1.

2.1.1. Test Case

2.1.1.1. Purpose of Test Case

TBD

2.1.1.2. Inputs, Conditions, and Expected Results

TBD

2.1.1.3. Pass/Fail Criteria

TBD

2.1.1.4. Test Procedures

TBD

2.2. TBD name of a design-breakdown item

Traceability: SDD section 3.3.1 → SVCP section 2.2.

2.2.1. Test Case

2.2.1.1. Purpose of Test Case

TBD

2.2.1.2. Inputs, Conditions, and Expected Results

TBD

2.2.1.3. Pass/Fail Criteria

TBD

2.2.1.4. Test Procedures

TBD

2.3. TBD name of a design-breakdown item

Traceability: SDD section 4.3.1 → SVCP section 2.3.

2.3.1. Test Case

2.3.1.1. Purpose of Test Case

TBD

2.3.1.2. Inputs, Conditions, and Expected Results

TBD

2.3.1.3. Pass/Fail Criteria

TBD

2.3.1.4. Test Procedures

TBD

2.4. TBD name of a design-breakdown item

Traceability: SDD section 5.3.1 → SVCP section 2.4.

2.4.1. Test Case

2.4.1.1. Purpose of Test Case

TBD

2.4.1.2. Inputs, Conditions, and Expected Results

TBD

2.4.1.3. Pass/Fail Criteria

TBD

2.4.1.4. Test Procedures

TBD

2.5. TBD name of a design-breakdown item

Traceability: SDD section 6.3.1 → SVCP section 2.5.

2.5.1. Test Case

2.5.1.1. Purpose of Test Case

TBD

2.5.1.2. Inputs, Conditions, and Expected Results

TBD

2.5.1.3. Pass/Fail Criteria

TBD

2.5.1.4. Test Procedures

TBD

2.6. TBD name of a design-breakdown item

Traceability: SDD section 7.3.1 → SVCP section 2.6.

2.6.1. Test Case

2.6.1.1. Purpose of Test Case

TBD

2.6.1.2. Inputs, Conditions, and Expected Results

TBD

2.6.1.3. Pass/Fail Criteria

TBD

2.6.1.4. Test Procedures

TBD

2.7. TBD name of a design-breakdown item

Traceability: SDD section 8.3.1 → SVCP section 2.7.

2.7.1. Test Case

2.7.1.1. Purpose of Test Case

TBD

2.7.1.2. Inputs, Conditions, and Expected Results

TBD

2.7.1.3. Pass/Fail Criteria

TBD

2.7.1.4. Test Procedures

TBD

2.8. TBD name of a design-breakdown item

Traceability: SDD section 9.3.1 → SVCP section 2.8.

2.8.1. Test Case

2.8.1.1. Purpose of Test Case

TBD

2.8.1.2. Inputs, Conditions, and Expected Results

TBD

2.8.1.3. Pass/Fail Criteria

TBD

2.8.1.4. Test Procedures

TBD

2.9. TBD name of a design-breakdown item

Traceability: SDD section 10.3.1 → SVCP section 2.9.

2.9.1. Test Case

2.9.1.1. Purpose of Test Case

TBD

2.9.1.2. Inputs, Conditions, and Expected Results

TBD

2.9.1.3. Pass/Fail Criteria

TBD

2.9.1.4. Test Procedures

TBD

2.10. TBD name of a design-breakdown item

Traceability: SDD section 11.3.1 → SVCP section 2.10.

2.10.1. Test Case

2.10.1.1. Purpose of Test Case

TBD

2.10.1.2. Inputs, Conditions, and Expected Results

TBD

2.10.1.3. Pass/Fail Criteria

TBD

2.10.1.4. Test Procedures

TBD

2.11. TBD name of a design-breakdown item

Traceability: SDD section 12.3.1 → SVCP section 2.11.

2.11.1. Test Case

2.11.1.1. Purpose of Test Case

TBD

2.11.1.2. Inputs, Conditions, and Expected Results

TBD

2.11.1.3. Pass/Fail Criteria

TBD

2.11.1.4. Test Procedures

TBD

3. Safety Features

Because libBirds is a reusable library rather than a complete system, it does not attempt to provide safety features as such. The libBirds library promotes safety primarily in omitting functionality that can easily be misused to the detriment of system reliability, such as dynamic memory allocation.

4. Verification Methods

4.1. Review Methods

4.1.1. Scope and Depth

TBD

4.2. Analysis Methods

4.2.1. Scope and Depth

TBD

5. Changes from the Prior Release

5.1. TBD specific change

Traceability: SAS section 8.1.1.1.1 → SVCP section 5.1.

5.1.1. Test Case

5.1.1.1. Purpose of Test Case

TBD

5.1.1.2. Inputs, Conditions, and Expected Results

TBD

5.1.1.3. Pass/Fail Criteria

TBD

5.1.1.4. Test Procedures

TBD

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