

## **Appendix K**

# **Test Procedures Template**

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## **1. Introduction**

Introduce the reader to the subject of the document and include a brief project description. Provide a high-level system architecture diagram and describe the major parts of it. This can be copied from the test plan.

### **1.1 Purpose**

Describe the purpose of the document, how it will be used, and the testing objective(s). This can be copied from the test plan.

### **1.2 System Overview**

Provide a description of the system and a complete high-level system block diagram. This can be copied from the test plan.

#### **1.2.1 Key Project Milestones**

List the key project milestones and a brief description of each if needed for clarity.

### **1.3 System Release Description**

Describe the parts of the system that are assembled for this particular series of tests. A system block diagram should be provided and it should relate to the system block diagram shown in the test plan.

## **1.4 Integrated Test Approach Description**

Describe the overall integrated test approach. This should be a summary based on the test plan description.

## **1.5 System Network Configuration**

Describe the system network configuration needed for this series of tests.

## **2. Reference Documents**

List all reference material that is used in the integration and testing plan. Do not list any documents not specifically referenced in the body of the document. The references are typically listed as a two-column table without showing the borders. The first column includes the document title and publishing date, while the second column includes the name and contact information for the publisher of the document. This section always starts with the caveat:

*The following documents, of the exact issue shown, form a part of this document to the extent specified herein. In the event of a conflict between the documents referenced herein and the contents of this document, this document shall be considered the superseding requirement.*

Include references to project-specific FDOT standards and procedures used in the development of the requirements.

## **3. Integration (or Test) Case X Test Procedures**

Describe the test set up required for this series of tests. A diagram of the test set up is recommended that lists specifically what cables connect to what connectors, and what additional equipment is needed to support the testing.

### **3.1 Requirements Testing**

#### **3.1.1 Test Approach**

Briefly describe the overall test approach, including the required set up and what the test process will be.

#### **3.1.2 Equipment Needed**

List the equipment needed for the test. This is just a list, not a detailed explanation of the pieces. If some equipment or services are required external to the project, describe who will provide them and how they will be injected into the testing.

##### **3.1.2.1 Special Test Support Equipment**

Describe any simulator or test data files that will be needed to conduct the testing.

### **3.2 Test Reporting Requirements**

Briefly describe the requirements for reporting test results and what process will be followed to dispose of any test anomalies (e.g., partial or complete failure to meet a requirement).

## **4. Test Procedures**

This section lists the step-by-step procedures to be followed for each test. In this template, the procedures are listed for the actual test, meaning that the first procedure will be IC 1.1 or TC 1.1.

### **4.1 Integration (or Test) Case 1 Test**

An integration case (IC) can be all in one if it is testing one functional set of requirements, or it may consist of multiple subcase tests that support the overall functional test. Keep the test procedures to a manageable size where there are a maximum of 25 to 30 steps. State the test objective for each test procedure and identify the requirements being tested.

4.1.1 Integration (or Test) Subcase 1.1

Step	Procedure	Expected Result	Pass/Fail
1	Describe the step to be taken.	Describe the expected result.	This is left blank until the test is run and then it is filled in by the test engineer.
2	Describe the step to be taken.	Describe the expected result.	Identify the requirements that are satisfied when the expected result verifies that one or more of the requirements have been met.
n	Keep describing the steps in the procedure until the test is complete.		

4.1.2 Integration (or Test) Subcase 1.2

4.1.3 Integration (or Test) Subcase 1.3

4.1.4 Integration (or Test) Subcase 1.n

**4.2 Integration (or Test) Case 2 Test**

Continue listing until all procedures have been included.