SW Test Protocol Syda[1520]

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1 Overview[1521]

Describe the objective, scope, and purpose of the test.

Example: This protocol details the test procedures that will be used to verify ….

1.1 Description[1522]

Describe the objective, scope, and purpose of the test.

Example: This protocol details the test procedures that will be used to verify ….

1.2 Testing Target[1523]

List any applicable testing target, like requirements ID, Tracker #, SwDP DF #, use cases, function, and/or features.

- Example: SwRS-12, …;
- Example: Tracker 1234, …;
- Example: Avanta Software Development Plan DF-xxxxxx;
- Example: Use case describe in DF-xxxxxx, Rev xx;
- Example: One touch purge feature, …;

1.3 Applicable and Reference Documents[1524]

List all supporting documentation required for execution of the Software Test Protocol. List revision number for verified requirements document.

- Required Recordkeeping Methods for Quality Records, 88062-00-PP-01.
- Data Retention Policy, 201187
- Example: Avanta Software Requirements Document, 202636 Rev xx;
- Example: Avanta SWIFT Cook Book, 203237 Rev xx;

2 Responsibility[1525]

Software Lead or assignees are responsible for writing the test protocol and coordinating the test activities.

The individual performing the test is responsible for collecting all applicable data, filling in the appropriate test data

sheets, and preparing the test report.

3 Test protocol Performance Guidelines[1526]

3.1 Changes to the Protocols[1527]

If any test in this protocol cannot be performed exactly as described, the person performing the test shall contact the

protocol originator and/or Software Lead.

Significant Changes to the protocol (i.e., changes to acceptance criterion, intent of the testing methodology, etc)

shall be documented, reviewed, and approved via updating of the protocol documentation prior to execution of the

testing.

Minor Changes to the protocol, a mark-up along with signature and date, may be made to the approved protocol in

accordance with Required Recordkeeping Methods for Quality Records (88062-00-PP-01). This shall be reviewed

and approved in the Test Report.

3.2 Test protocol Execution[1528]

1. Test results shall be recorded on test protocol or extra data sheets, as appropriate. Record any additional comments, if applicable.
2. If a section cannot or does not need to be completed, write “N/A” in the space and provide a brief explanation.
3. If a test step is not applicable, enter “N/A” and indicate why. If a test step is skipped, enter “SKIP” and indicate why.
4. The individual(s) performing the test must sign and date test protocol results where indicated. Reference Required Recordkeeping Methods for Quality Records (88062-00-PP-01).
5. Any unusual performance or visual defects observed during testing shall be documented.
6. Documentation errors in the recording of test results may be corrected in accordance with Reference Required Recordkeeping Methods for Quality Records (88062-00-PP-01).
7. Any electronic files generated during testing should be included in the test report document object in the Product Data Management System or a specified location (the location shall be recorded in the closing test report).
8. Radiology Tracking Record (RTR) should be submitted for defects found during testing (either technical issues or against released requirements/design documents). RTRs can be closed by re-test after the fix or turned to discrepancy.
9. Test Report: After the execution of this protocol, a test report shall be generated.

4 Test Equipment and Product[1529]

4.1 Test Equipment and Material used in Test[1530]

Description	Serial Number	Latest Calibration Date	Calibration Due Date
Example: Oscilloscope			

4.2 Product used in Test[1531]

Description	Serial Number
Example: NOVA Injector	

4.3 Software used in Test[1532]

Software Description	Software Version/ Check point
Example: Injector Head Software	
Example: Testing Software	

4.4 Testers Signature record[1533]

Printed Name	Signature	Initials	Date

5 Test Setup[1534]

If the entire test protocol follows the same setup then enter test setups (include equipment and steps) here, otherwise enter setup information in each test case's

"Special Test Setup" section.

Enter here.

Example:

1. Remove power and carefully remove the Head top case to expose the electronics in the head.

2. Attach jumpers to each of the following signals and connect each one to an oscilloscope: …

6 Test Cases[1535]

Describe test case(s). Repeat section 6.1 for each test case.

6.1 Test case title (Replace “Test Case Title” with a real title, copy this section with additional test cases.)[1536]

Including Testing Targets and Test Method, Special Test Setup for the test case, Test Procedure and Expected Result, Tracking Record/comments/ Justification of Redlines/Exceptions, Overall Actual Test Result, Tester Signature/Date.

6.1.1 Testing Target(s) and Method[1537]

Testing target could be a set of requirements, a software function, a change request, etc. Test Method could be Test or Analysis. If analysis method is used, a rational needs to be documented of why analysis is an appropriate choice.

Testing Target(s):

Enter here.

Example:

Testing following requirements: SW-12, SW-23

Test Method: enter here, example Test.

6.1.2 Special Test Setup for this case[1538]

Enter special setups (include equipment and steps) if required for the following test procedure, or N/A if not applicable.

6.1.3 Test Procedure and Expected Results[1539]

Enter test procedure and expected result here.

Example:

4. Stop the purge by pressing the stop button on the DCU.

Expected Results:

The purge is terminated.

___Pass ___Fail ___N/A

6.1.4 RTRs generated During Testing, Comment, and/or Justification of Redlines/Exceptions[1540]

Enter N/A if no RTRs, comments, or justification.

6.1.5 Overall Actual test Result[1541]

___Pass ___Fail ___N/A

Tested by: _____ Date: _____