**VistA Services Assembler Phase 2 (VSA-P2) 3.0.n**

**Test Case Scenario Guide**



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**Department of Veterans Affairs (VA) Office of Information and Technology (OI&T) Product Development (PD)**

**Document Revision History**

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| 03/31/2016 | 1.0 | Tech Edit:  • Baselined document.  • Verified standards, styles, and  Section 508 conformance. | VSA VistA.js VA Project Team |
| 03/10/2016 | 0.4 | Updates based on feedback. | Apex Data Solutions |
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**1 Purpose**

The purpose of this VistA Services Assembler (VSA) Veterans Health Information System and Technology Architecture JavaScript (VistA.js) Test Case Scenario Guide is to describe how to use the set of documentation provided for the VistA.js Test Cases. The set of documents is described below, and should be read in this order:

1. VistA.js Test Case Scenario Guide—Tester should read this Guide first.

2. Test Set—Collection of Test Cases that are intended to be used to test a specific function. (i.e., Functional Testing).

3. Test Cases—Includes the test step level details for the execution of the test case. This is generated per Test Set. Also, includes the datasheet (as a separate worksheet) that identifies the literal test data to be used for the variables included on a per test case basis (more details regarding

datasheet variables below).

4. Test Case Keywords—Definition of the keywords referenced within the test cases (more details regarding keywords below).

**2 Scope**

For VistA.js 3.0.n functionality, there are nine Test Sets:

1. Execute Service:

Execution of a defined service on a single VistA. Variations surrounding a single Remote

Procedure Calls (RPC) including errors.

2. Request Validation:

Variations surrounding Identity validation, Routing Validation, Valid requestor.

3. Multiple VistA Targets:

Federated routing and aggregated response.

4. Chained Services:

Execution of a defined service on a single VistA. Variations surrounding chained RPCs including

Stateful RPCs.

5. RPC Wizard—Select RPC:

Function and display of the Select RPC page.

6. RPC Wizard—Edit Definition Add Param:

Editing a selected definition, add Input Parameters, and save the service.

7. RPC Wizard—Edit Definition Display: Edit Definition page display.

8. RPC Wizard—Edit Definition Edit Param:

Editing a selected definition input/output parameter.

9. System Tests:

RESTification and execution of an RPC with specific input and output types.

**3 Test Details Format Definition**

**Table 1: Test Details Format Definition**

|  |  |
| --- | --- |
| **Column Title** | **Column Description** |
| Path Column | Defines where the Test Cases will be located. Currently, the “Path” will be set to  “Rational Quality Manager, VSA Project Repository.” |
| Subject (Test Case  Description) | High-level description of the intent and coverage of the test case. |
| Trace Points | Identifies the requirements by Req ID that have been traced to this test case. Each test case will have One to Many Requirements traced to it. |
| Priority | Priority given to the test case. Currently, this will be set equal to “TBD.” |
| Step No. | Identifies each unique step required to be executed to fully execute the test case. |
| Action | Description of the test step to be executed. Each row represents a unique (to the test case) test step to be performed.  **NOTE:** During execution of the test case, each test step *must* be performed exactly as stated in order to ensure the expected results. |
| Accept Criteria  (Expected Result) | The expected result based on the Actions defined for the specific Test Step. |
| Actual Results | Used to capture the Actual Results observed in test execution. |
| Pass/Fail | If the Actual Results observed did *not* match the Accept Criteria (Expected Results)  exactly it is set to “Fail.” If the results matched it is set to “Pass.” |
| Comments/Queries | Open column to allow any questions or notes to be captured during execution. |

**4 Contents of an Action**

The Actions are written to allow for automated execution. The use of “Data Sheet Variables” and “Keywords” (see Table 2) facilitates the scripting of the test steps into an automation framework to allow for automated execution. However, these tests can still be run manually as described in Table 2.

**Table 2: Contents of a Test Description**

|  |  |
| --- | --- |
| **Element** | **Element Description** |
| Data Sheet Variable | Any term contained within a test description that is within angle brackets (i.e., <>) is a datasheet variable. This represents a variable value that is externally defined within a datasheet.  During execution of a test when a datasheet variable is encountered the tester *must* reference the datasheet for this test and replace the variable with the value stated in the datasheet. |
| Keyword | A keyword is an externally defined set of steps to accomplish the stated test step. Keywords are formally defined in the “Test Case Keywords” worksheet. This worksheet includes a unique ID for the keyword as well as a definition of the inputs/outputs and steps required to perform the keyword test step. The test description referencing a keyword will define the specific values to be used when |

|  |  |
| --- | --- |
| **Element** | **Element Description** |
|  | executing the keyword for each input.  During execution when a test step that references a Keyword is being executed the tester will reference the "Test Case Keywords" worksheet find the stated keyword by unique ID and perform the steps defined in the "Instructions" column. |

**Appendix A—Approval Signatures**

Signed: Date:

Signed: Date:

Signed: Date:

Signed: Date: