1   Deliverable Description

ID and Title: D-16 Test Plan

Description: The Statement of Work describes delivering a single Master Test Plan that details all the testing phases of the test cycle. The testing strategy for each phase will have a specific criterion that is appropriate to the type of testing being performed. They are:

- Creating test preparation
- Develop Test Scenarios and scripts
- Perform testing
- Record test defects
- Generating test reports

The Project schedule has one release to test. Testing will be performed as described below:

- Integration Testing
- System Testing
- Stress – Performance Testing
- User Acceptance Testing

Interface Testing will be done during each test iteration to ensure all interfaces function as designed.

Security testing will also be executed.

Deliverable Owner: Michael Johnson

Proposal/Contract Reference: Amendment No. 1 to Master Services Agreement, Exhibit E, section 1.2.3 Elaboration Deliverables

2   Content

Content Item	Description
1. Introduction	Outlines the content of the document.
1.1 Project Overview	Provides a high-level overview of CGI's approach for delivering the exchange.
1.2 Solution Overview	Outlines the overall solution.
2. Referenced Documents	Documents that can be referenced to provide additional context as well as more detail on the project management plan.
3. Test Strategy	Outlines the test strategy.
3.1 Requirements Validation (ICE)	Outlines how requirements are validated.
3.2 Requirements Driven Testing	Outlines Requirement Driven Testing.
3.3 Traceability	Outlines Traceability and tools used.
3.4 Automation	Outlines Automation.
3.5 Data Management	Outlines how Data Management will be handled.
4. Test Scope	Specifies the various technology stack components and software configurations that are in place and being utilized for testing efforts.

Content Item	Description
5. Software Risk/Issues	Specifies the testing risks identified by the CGI Test Team during analysis and the mitigation strategy being put into place to avoid delaying testing efforts.
6. Features to be Tested	Specifies the features of this release that are being tested during this release and the sizing of the effort.
7. Features not to be Tested	Identifies all the features and significant combinations of features that will not to be tested due to deletion of the requirement.
8. Test Approach	Outlines the testing phases for the VT Health Benefit Exchange.
8.1 Integration Testing	Outlines Integration Testing and how it is accomplished.
8.2 System Testing	Outlines System Testing and how it is accomplished.
8.2.1 Functional	Outlines the Functional Testing process within System Testing.
8.2.2 Compatibility Testing	Outlines the Compatibility Testing process within System Testing.
8.2.3 System Integration Testing	Outlines the System Integration Testing process within System Testing.
8.3 User Acceptance Testing (UAT)	Outlines UAT and its objectives.
8.4 Performance Testing	Outlines how Performance Testing is accomplished.
8.5 Interface Testing	Outlines how Interface Testing is accomplished.
8.6 Security Testing	Outlines how Security Testing is accomplished.
8.7 Test Cycles	Outlines how Test Cycles are performed.
8.8 Defect Testing	Outlines the overall Defect Testing process.
8.8.1 Defect Severity	Outlines the features of the severity during the tracking process.
8.8.2 Defect Priority	Outlines features of the severity during the defect tracking process.
8.8.3 Defect Submission	Outlines the Defect Submission process.
8.8.4 Defect Triage Sessions	Outlines Defect Triage Sessions.
8.8.5 Defect Retest	Outlines the Defect Retest process.
8.9 Test Results	Outlines when Test Results are delivered and the owners.
9. Testing Entrance and Exit Criteria	Outlines the overall Test Entrance/Exit Criteria.
9.1 Unit/Integration Test	Outlines the various entry/exit conditions of Unit/Integration Test.
9.2 System Test	Outlines the various entry/exit conditions of System Test.
9.3 User Acceptance Test	Outlines the various entry/exit conditions of User Acceptance Test.
9.5 Release Test	Outlines the various entry/exit conditions of Release Test.
9.6 Test Cases Format	Outlines the formatting of the test cases.
10. Item Pass/Fail Criteria	Specifies the criteria to be used to decide whether each test item has passed or failed testing.
10.1 Failure Categories	Outlines the various failure categories.
11. Test Suspension and Resumption Criteria	Specifies the criteria used to suspend all, or a part of, the testing activities on the test items associated with the plan.
12. Test Deliverables	Defines the deliverables and activities that will be delivered during overall testing process.
12.1.1 Deliverable Responsibilities	Identifies the primary responsibilities of each deliverable and testing activity.

Content Item	Description
12.1.2 Metrics	Outlines the metrics and what shall be included.
13. Test Data	Outlines how Test Data will be stored.
14. Test Tools	Identifies the tools that are used for testing purposes and their function.
15. Testing Tasks	The remaining high level tasks that needs to be completed in order to begin testing activities.
16. Environments	Specifies the environments being utilized during the testing effort and the specific testing activities taking place.
17. Test Responsibilities	Defines the Test Responsibilities plan for the duration of the testing process. Identifies key communication points, methods, audience, responsible individual, etc.
18. Critical Planning Assumptions	Validates requirements prior to testing effort. ATSM stood up and configured.
19. Issue Escalation Path and Training	Any issue within the Test will follow the standard Escalation Path set forth by CGI.
20. The Vermont Health Benefit Exchange Access to Results and Environments	Allows access to the Vermont Health Benefit Exchange for review after each iteration cycle and test environment.
21. Staffing	Defines the role and the staff of the personnel from each organization.
22. Training Needs	Defines the training purposes that are essential for the testing process.
23. Test Schedule	Identifies the types of testing activities that will be performed in the VT Health Benefit Exchange project.
24. Glossary	Glossary.
25. Acronyms	Acronyms.

3 Approver, Reviewers, and Work Plan

Approver: Justin Tease
Reviewer(s):   Justin Tease, Dana Houlihan, Les Birnbaum, Tena Perrelli, Greg Paradiso, Margot Thistle, Sean Sheehan, Michael Morey, Nicole Weidman, Rick Ketcham

Work plan tasks:

Task Name	Start	Finish
Deliverable: (D-16) Test Plan	**Fri 4/5/13**	**Thu 5/16/13**
Create Deliverable	**Fri 4/5/13**	**Thu 5/2/13**
Draft Test Plan	Fri 4/5/13	Thu 5/2/13
Review and Approve Deliverable	**Fri 5/3/13**	**Thu 5/16/13**
Intl Rev & U/D - Test Plan	Fri 5/3/13	Thu 5/9/13
Milestone: Test Plan Submitted	*Thu 5/9/13*	*Thu 5/9/13*
Rev, Rvs & Appr - Test Plan	Fri 5/10/13	Thu 5/16/13
Milestone: Final Test Plan Approved	*Thu 5/16/13*	*Thu 5/16/13*

4   Acceptance Criteria

- Must address the following:
  - ▸ Testing activities
  - ▸ Periods
  - ▸ Test cases
  - ▸ Mapping requirements to the specific tests
  - ▸ Tracking and resolving issues
  - ▸ Verification methods
  - ▸ Test data needs
  - ▸ Version control
- Must identify requirements for the testing environment where test cases will be executed
- Must include a plan for an end-to-end integration test from end-consumer to all systems and back, testing all federal and state agencies, as appropriate, to ensure accurate Exchange functionality and data.CGI and SOV will document a plan for development of the UAT scripts in the testing plan
- The Test Plan will document how the RTM provides links between the business requirements, technical design, use cases, and test cases

Revision History

Version	Date	Modified By	Description
1.0	03/05/2013	Corina Gasner	Delivered to SOV for review
2.0	04/17/2013	Mike Blake	Revisions per IV&V review