**Trapeze Conventional Upgrade Performance Test Project Prospectus – Translink**

1. Purpose

This document is intended to capture the scope of work and deliverables for Performance Testing as part of Translink’s Trapeze Conventional Upgrade project.

This document is based upon the document entitled “Vendor Performance Test Requirements.docx” (Requirements Doc) delivered to PQA from Translink on Jan 28, 2019.

1. Scope of Work

PQA will provide the following services and/or activities in the course of executing this Agreement:

**Performance Testing**

* One performance tester will be utilized for this project. He will be responsible for creating performance test scripts by recording scenarios, executing scripts in stage environment and share reports and analysis as per required parameters. These tasks will include but are not limited to the following:
  + Design, develop and implement performance test scripts
  + Verify the responses of system and re run scenarios after improvements in system
  + Record Performance test scripts and verify them through unit run
  + Execute load and stress scenarios as per need of system
  + Transition and Knowledge Transfer
  + Daily stand-up meetings
  + Daily and weekly status reports using tracking system

**Performance Test Scope**

The scope of performance test is based on the features list shared in the ‘Vendor Performance Test Requirements’ document. Three areas are involved in the scope which include:

* + G3 Feedback form
  + G3 Trip Planner
  + OPS Web

The general approach for performance project is to record the scripts, verify the response through a unit test run, execute load and stress scenarios and perform reporting & analysis as needed.

Table 1 shows summary of timelines based on activities for areas shared. Table 2 shows detail of estimates.

Table 1

|  |  |
| --- | --- |
| **Tasks** | **Estimated Hours** |
| Environment Setup | 16 |
| Ramp Up Time | 24 |
| Script Recording & Execution | 140 |
| Reporting & Analysis | 18 |
| Final Testing Report | 16 |
| Re Run Time | 40 |
| Stress Test Run | 40 |
| Sub-total Time (in Hours) | 294 |
| Contingency (20%) | 60 |
| Total Time (With Contingency) | 354 |

Table 2 – Detailed Estimates

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Scenario ID** | **Scenario Name** | **Steps Count** | **Steps Description** | **Estimated Recording Time** | **Estimated Execution Time** | **Reporting & Analysis** | **Comments** |
| 1 | Trip Planner: Load and Stress | 3 | URL Hit, Scheduling and Selection operation using dynamic menus (involves load test of 24 hours) | 6 | 30 | 4 | 24 hours concurrent load test requested |
| 2 | Feedback Form: Load and Stress | 3 | URL Hit, Scrolling, Input for form, Button Click | 5 | 2 | 2 |  |
| 3 | Trip Planner G3 | 4 | URL Hit, Input data and button click for **9** types | 40 | 2 | 2 | Dynamic screens with input passed to next steps |
| 4 | Schedule Lookup | 6 | URL Hit, Options Click, input and button click | 5 | 2 | 2 |  |
| 5 | Next Bus | 5 | URL Hit, Options Click, input and button click | 5 | 2 | 2 |  |
| 6 | Find Nearby Stops | 6 | URL Hit, Options Click, input and button click | 5 | 2 | 2 |  |
| 7 | OPS Web Driver Paddle | 3 | URL Hit, Input data and button click | 4 | 2 | 2 |  |
| 8 | Driver Paddle Icon | 9 | URL Hit, Input, Button Click and Selections, Approval | 8 | 2 | 2 | Dynamic screen with approval and selections involved |
|  | | | | | | | |
| Sub-totals | | | | 78 | 44 | 18 |  |
|  | | | | | | | |
|  | | | Total Hrs | 140 |  | | |
| Stress Test | 40 |
| Rerun Time | 40 |
| Total time with reruns | | | | 220 |  | | |

* 1. **Out-of-Scope Testing Services**

The following services and/or activities as the resource’s primary role are mutually agreed to be out of scope for this Agreement:

* Automation Testing
* Security testing
* This is a COTS (Commercial Off-The-Shelf) product, the quality of the product itself is not the scope of the testing.
* Product unit or component integration testing
* Installation testing

Additionally, any services and/or activities that are not reasonably covered by the services and/or activities described in Section 1 are also considered to be out-of-scope for this Agreement.

* 1. **Assumptions**

The following are a list of assumptions that have been made in the preparation of this prospectus. Should any of these assumptions prove to be incorrect it is understood that Translink and PQA will negotiate the best path forward to deliver the greatest amount of high priority deliverables.

* Project and environment issues outside of the scope of PQA’s control will not impact the resource’s capability to deliver
* Jmeter will be used for performance testing using ‘HTTP’ protocol
* Scenarios will be successfully executed following the steps mentioned as per document shared
* Staging environment should be up and running throughout performance test activity
* Staging environment should be a replica of production environment so that results could be comparable for real environments
  1. **Deliverables**

PQA will provide any process and/or test artifacts created for the Customer in the course of executing this Agreement as deliverables (the “Deliverables”) to the Customer, including (as examples):

* Performance Test Scripts for all scenarios
* Performance Test Report as per parameters required
* Regular status emails and/or verbal status reporting via scrum/stand-up and/or tools
* Final Testing Report
* Materials for knowledge transfer
* Weekly testing status reports (report on issues, status, and metrics)
* Regular meetings/calls between PQA Delivery Manager and Customer point of contact

1.2 Responsibilities

The Customer will provide the following items:

1. Access to relevant system documentation
2. Access to relevant test management tools
3. Ensuring that resource is setup properly at client side
4. Ensure that application is up and running throughout the duration
5. Ensure un-restricted solitary access to test environments during performance runs
6. Ensure that all required accesses are available
7. Ensure that any showstoppers or blockers raised by PQA resource are addressed at high priority
8. Support in establishing healthy communication between PQA resource and team at TransLink

PQA will provide:

1. Testing resources
2. Delivery Management
3. Raising any show stoppers or blockers during work
4. Logging daily hours of work done
5. Schedule & Effort

The overall project period of this Agreement is **TBD.**

The effort for the Services described within this Agreement are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Task** | **Start/End Dates** | **Estimated Effort** |
| Senior Performance | Performance Test | TBD | 48 days |
| Subtotal | | |  |
| **Total** |  |  |  |

1. Fees

The overall Fee calculated for this Agreement:

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Effort** | **Rate** | **Estimated Total** |
| Senior Performance | 354 |  |  |
|  | | |  |

\*Based upon a 7.5 hour day

\*Fees do not include applicable taxes

Fees will be billed as per existing MSA and SOW agreements.

The Fee will be invoiced on a monthly basis for the hours worked in the corresponding monthly period. The Customer shall pay each invoice within 30 days of receipt. Past due amounts will be charged a 2% late fee each month. All currencies are in Canadian dollars.

1. Changes

The Customer acknowledges that PQA’s ability to deliver services depends on a number of inputs and conditions that are solely in the control of the Customer, and that if not available as expected, or altered after the execution of this Agreement, may result in a Change Request, including but not limited such scenarios as:

* Any changes to the artifacts described in Section 1 since receipt by PQA
* Delays in delivering additional documentation
* Delays in arranging access to the AUT in advance of the start of testing
* Delays in readiness of the AUT for testing
* Requests by the Customer for services beyond the limits of this Agreement as defined herein including but not limited to the Scope of Work, the Contract Period, the Fee, the Schedule & Effort, etc.

Changes to this Agreement with respect to any of its terms including but not limited to Scope of Work, Contract Period, the Fee, or assigned personnel shall be mutually agreed in advance between the parties in writing using a Change Request Form.

1. Additional Terms

As described in the Translink/PQA MSA.