Test strategy

Spartan project

14.03.2018

Version number 1

**System Description**:

1. RingCentral Phone is desktop application for Windows and Mac OS
2. Project acceptance criteria is no P0 and P1 bugs for release build and maximum 5 P2 and P3 bugs in Open state.
3. Do not make release if Windows or Mac OS released a new one version and it was not tested with our application.

**Performance Test Objectives:**

1. The main users are big companies, universities, call centers, hotels, etc. which need to use usual phone on their PCs with stable audio connection to make their business well.
2. As our application mostly is using for business, quality is the most important reason. (No lags, freezes or delays)
3. Success criteria is working without lags minimum 1 month without restart.
4. Do not have memory leak at all.

**Expected outputs:**

1. Test log file containing various test runs
2. OS monitoring logs,
3. Results Analysis Report

**Define KPIs:**

1. Less than 400mb RAM usage under load
2. Less than 500 Disk memory after installation.
3. Don’t use more that 60% CPU time under load.

**Test environment:**

1. Windows 7, 8, 8.1, 10. Supporting both x32 and x64 versions. For Windows OS only x32 installer is present
2. Mac OS ElCapitan, Sierra, High Sierra, Mojave. For Mac OS only x64 installer is present.
3. Minimum system requirements: Windows 7, Mac ElCapitan

4GB RAM, 2 GB free disk memory, 2GHz CPU time, 10Mb stable internet connection

**Configuration management:**

1. Company should provide PC with the next characteristics:

* CPU I7 with 3.0 CPU time
* 16GB RAM memory
* 500GB disk memory

1. Performance engineer will support scripts and create results via diagrams.

**Interfaces with third party system:**

1. Install printer driver with SoftPhone for scanning documents for faxes.

**Prerequisite:**

Development finished totally, only with RC build can be performed performance testing

**Exit criteria:**

1. Performance suit was run at least 3 and showed good performance as we planned.
2. Performance matrix is satisfied.

**Risk Factors:**

1. OS update could make an influence on SoftPhone app.
2. Windows, MAC released new one OS when performance testing was finished but app release hasn’t done.
3. Performance engineer could be on vacation when RC build is prepared.
4. Performance testing should be finished till application release