# AUTOMATED GRAPHICAL TEST TOOL EVALUATION

# Introduction

## Problem Space

## Mission

## Executive Summary

# Automated Graphical Testing

A brief introductory description of automated GUI testing, what it is and the available tools that we evaluated

## Test Levels (2/3/4/5?)

Describe what level test this effort is targeting.

## Tool Capabilities (what’s needed)

Briefly describe the things that are needed for automated testing at a high level with more details below (GUI manipulation, Image Capture/Comparison, Optical Character Recognition (OCR), etc.)

# Tools Evaluated

## Matrix

A table summarizing features of each tool (maybe table not needed if minimal content or a paragraph is sufficient?)

## Automated Test and Retest Test Manager (ATRT TM)

Describe ATRT features (product brief)

## Eggplant

Describe eggplant features (product brief)

## Sikuli

Describe Sikuli features (product brief)

# Evaluation Criteria

Describe important criteria we need in an automated test tool – this is the stuff we want to evaluate in each tool!

This correlates with “Tool Comparison and Evaluation” paragraphs below showing our evaluation of each criterion.

## Test Modularity and Reuse

Function/Sub-Test Definition

Parameter Passing

Object Oriented Capability

Test Creation Language or Mechanism

Need hierarchical design to isolate things that often change

## SUT Interaction

Image Capture and Scan

Optical Character Recognition (OCR)

## Collaboration

Source Control for Tool Artifacts

## Tool Usability

Time to Create Tests

Time to Run Tests

IDE Ease of Use

## Other

Cost

Supported Platforms

Customer Support

# Evaluation Scenario Definition

Describe the scenario:

Use image capture and recognition to launch application

Verify successful application launch (image capture)

Interact with the running application (i.e. enter text)

Use OCR to verify interaction successful

Shutdown application

# Findings/Lessons Learned

Describe scenario results and our findings for the evaluation as a whole and for each tool

## Lab Environment

Describe our lab where we did the evaluation

## Scenario Results

Brief blurb that says we did it successfully

## Tool Comparison and Evaluation

### Matrix

Table summarizing numerical rating of evaluation criteria defined above for all tools

Details of each criterion described in paragraphs below

### ATRT

#### Test Modularity and Reuse

Function/Sub-Test Definition

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#### SUT Interaction

Image Capture and Scan

OCR

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IDE Ease of Use

#### Other

Customer Support

### eggPlant

ditto

### Sikuli

ditto

# Summary/Conclusion