

PersonaSwitcher Integration

Testing Setup Guidelines

Requirements:

1. Windows 7, Windows 8, or Windows 10
2. Firefox Developer Edition with at least three additional themes installed

Install Guidelines:

1. Autolt - <https://www.autoitscript.com/site/autoit/downloads/>

Autolt is a scripting language intended for automating the Windows GUI through simulated keystrokes, mouse movement, and control manipulation. This will be our primary tool for integration testing. Because Autolt is limited to running on Windows Operating Systems, our tests are limited to run only on Windows as well.

To install Autolt, click the first download link, labeled “Download Autolt”. After choosing an install path and completing the setup, you will be able to create and run Autolt scripts. To create a new Autolt script, right click your Desktop or any File Explorer Window, scroll down to new, then Autolt v3 script. This will create a new file in the current location named “New Autolt v3 Script.au3”. To edit this script, either open this file with a text editor, or right click the file and select “Edit Script” to open the Autolt editor.

2. FF.au3 - <https://www.autoitscript.com/forum/topic/167661-ffau3-v0601b-15/>

This is a UDF that will allow Autolt to better interface with Firefox.

To download FF.au3, click the first link posted in the above thread, labeled *FF_V0.6.0.1b-15_au3*. Save this file in the “Include” folder within your Autolt3 install directory (the default directory is `C:\Program Files (x86)\AutoIt3\Include\`) – you will need administrator access to do so.

Documentation and Autolt code examples for FF.au3 is provided at <http://english.documentation.ff-au3.thorsten-willert.de/>.

3. MozRepl - <https://addons.mozilla.org/en-US/firefox/addon/mozrepl/>

This is a Firefox add-on that allows for programming of Mozilla-based applications using a telnet client, and is required for FF.au3 to be fully functional.

To install MozRepl, click the “Add to Firefox” button within Firefox Developer Edition then restart Firefox. After the MozRepl add-on is installed, MozRepl must be started. To do this, go to Firefox Developer Edition’s toolbar and select “Start” for immediate use or “Activate on startup” for continual use.

Running Tests

Test suites can be found at `\personaswitcher\testing\tests\`, and the libraries the tests depend on at `\personaswitcher\testing\library\`. Before starting a test, all Firefox processes should be closed. To run an automated test suite, double click the desired au3 file in the tests directory, or press F5 within the Autolt editor while the test is open. A test suite will not start while another test is running, the previous test’s process must first complete or be killed. While a test suite is running, do not send keystrokes or mouse clicks to any windows – doing so will disrupt the test and may cause undesirable results. After a test suite finishes running, the results of the test will be found in `\personaswitcher\testing\Automated Test Results.txt`.