

# Using Selenium Builder with DevTest 9.5.1

Daniel Mazzei, Associate Engineering Services Architect

August 2016

# Agenda

**0. INTRODUCTION**

**1. INSTALL THE SELENIUM BUILDER PLUGIN FOR FIREFOX**

**2. INSTALL THE CA APPLICATION TEST FOR SELENIUM BUILDER 1.0 PLUGIN**

**3. CREATE A RECORDING IN FIREFOX USING SELENIUM BUILDER**

**4. EXPORT THE RECORDING FROM SELENIUM BUILDER**

**5. IMPORT THE RECORDING TO DEVTEST WORKSTATION**

**6. EDIT THE RECORDED TEST STEPS IN DEVTEST WORKSTATION**

**7. INSTALL A WEB BROWSER DRIVER**

**8. RUN THE TEST IN DEVTEST WORKSTATION**

# Introduction

- What is Selenium?
  - Open source tool to create automated, cross-browser functional tests
  - Record and playback test cases for web-based applications through a UI without writing any code
- Why use Selenium with DevTest?
  - Quickly and easily create test cases and import into DevTest
  - Excels at Web application regression testing using various browsers
- The CA Application Test plugin lets you export the recording so you can edit and run these test cases in DevTest

*NOTE: Web browser support for recording Selenium tests is limited to Firefox. After you import these steps to DevTest you can run the test cases on Chrome, Firefox, Safari, or Internet Explorer.*

# 1. Install the Selenium Builder plugin for Firefox

- Install the Mozilla Firefox Web-browser (version 43 to 45)
  - <https://www.mozilla.org/en-US/firefox/new/>
- Install the Selenium Builder add-on for Firefox (version 3.0.9)
  - <https://addons.mozilla.org/en-US/firefox/addon/selenium-builder/>
- Run the add-on at least once before installing the CA Application Test for Selenium Builder 1.0 Plugin
  - From the Firefox menu select *Developer* → *Launch Selenium Builder*

Selenium Builder :: Add-on... x +

Mozilla Foundation (US) | https://addons.mozilla.org/en-US/firefox/addon/selenium-builder/


Register or Log in | Other Applications | mozilla

# Add-ons

EXTENSIONS THEMES COLLECTIONS MORE...

search for add-ons

Welcome to Firefox Add-ons. Choose from thousands of extra features and styles to make Firefox your own.




**Selenium Builder** 305 **REQUIRES RESTART**  
by Zarkonnen

Create automated cross-browser functional tests easily and quickly.

+ Add to Firefox

★★★★★  
1 user review  
4,020 users



[Add-on home page](#)

Version 3.0.9 [Info](#)  
Last Updated: April 13, 2016  
Released under [Custom License](#)

### About this Add-on

Selenium Builder allows you to record, edit, and play back Selenium 2 tests from within Firefox. You can save the tests as JSON files or export them to a wide range of language bindings.

### Reviews

★★★★★ Average  
★★★★★ 1

Selenium Builder :: Add-on... | Mozilla Foundation (US) | <https://addons.mozilla.org/en-US/firefox/addon/selenium-builder/>

Register or Log In | Other Applications | mozilla

# Add-ons

EXTENSIONS THEMES COLLECTIONS MORE...


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**Reviews**

★★★★★ Average

★★★★★

**Web DEVELOPER**

- Toggle Tools Ctrl+Shift+I
- Inspector Ctrl+Shift+C
- Web Console Ctrl+Shift+K
- Debugger Ctrl+Shift+S
- Style Editor Shift+F7
- Performance Shift+F5
- Network Ctrl+Shift+Q
- Developer Toolbar Shift+F2
- WebIDE Shift+F8
- Browser Console Ctrl+Shift+J
- Responsive Design View Ctrl+Shift+M
- Eyedropper
- Scratchpad Shift+F4
- Page Source Ctrl+U
- Service Workers

**Developer**

**Launch Selenium Builder** Ctrl+Alt+B

Work Offline

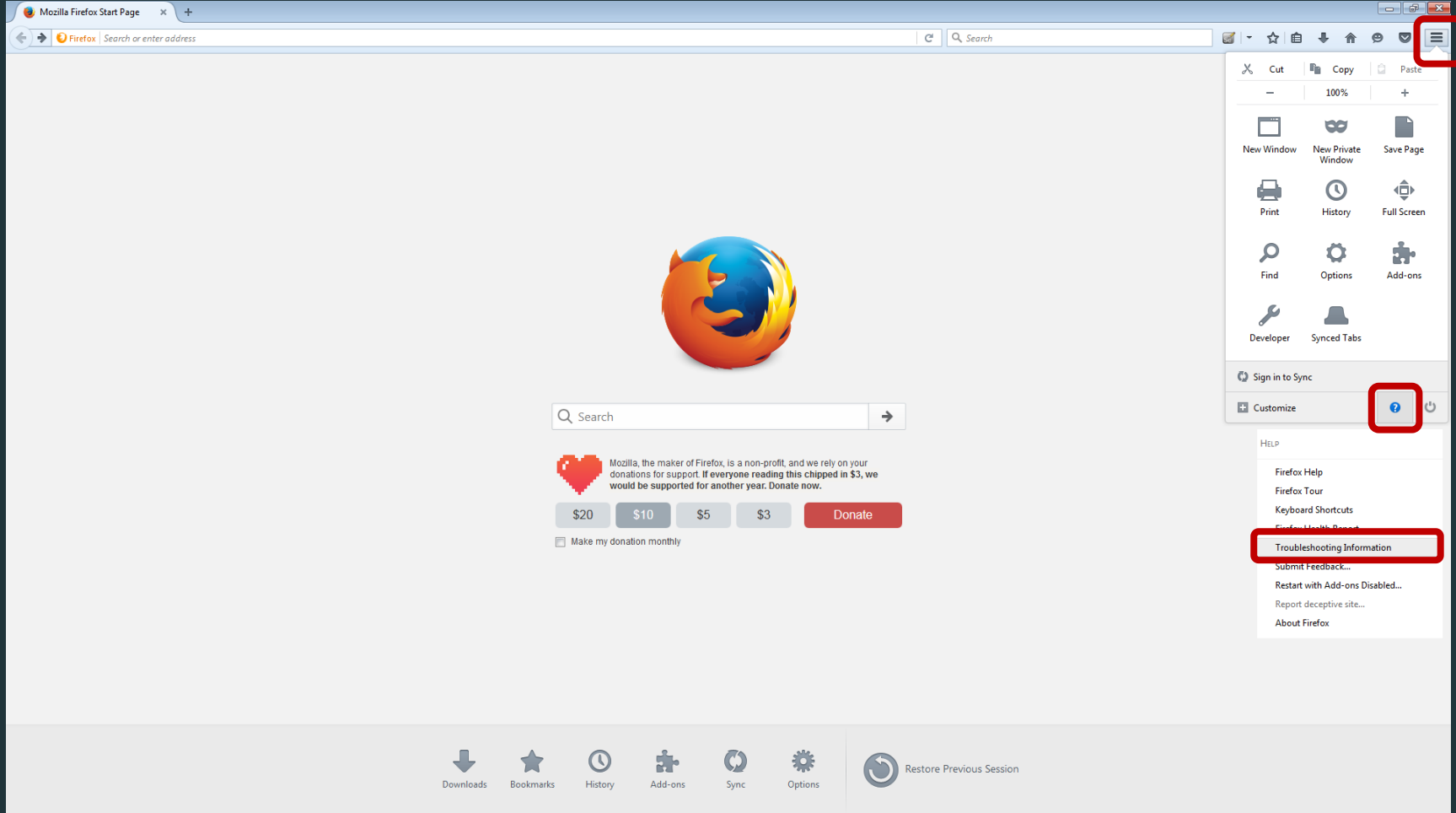
[Add-on home page](#)

Version 3.0.9 [Info](#)  
Last Updated: April 13, 2016  
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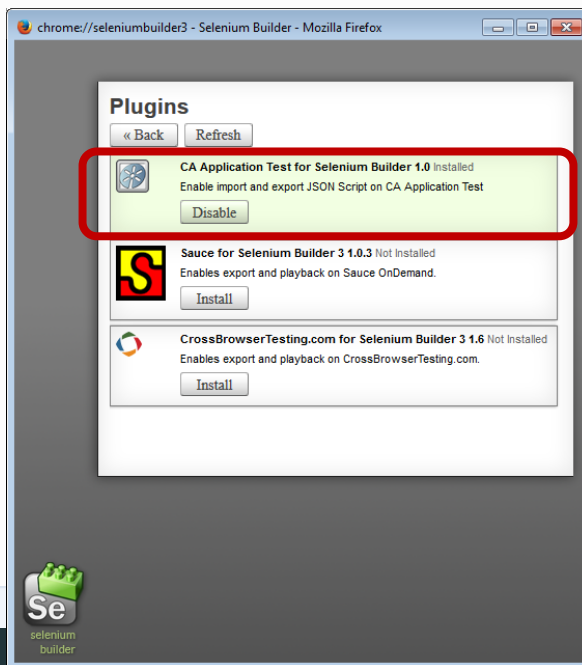
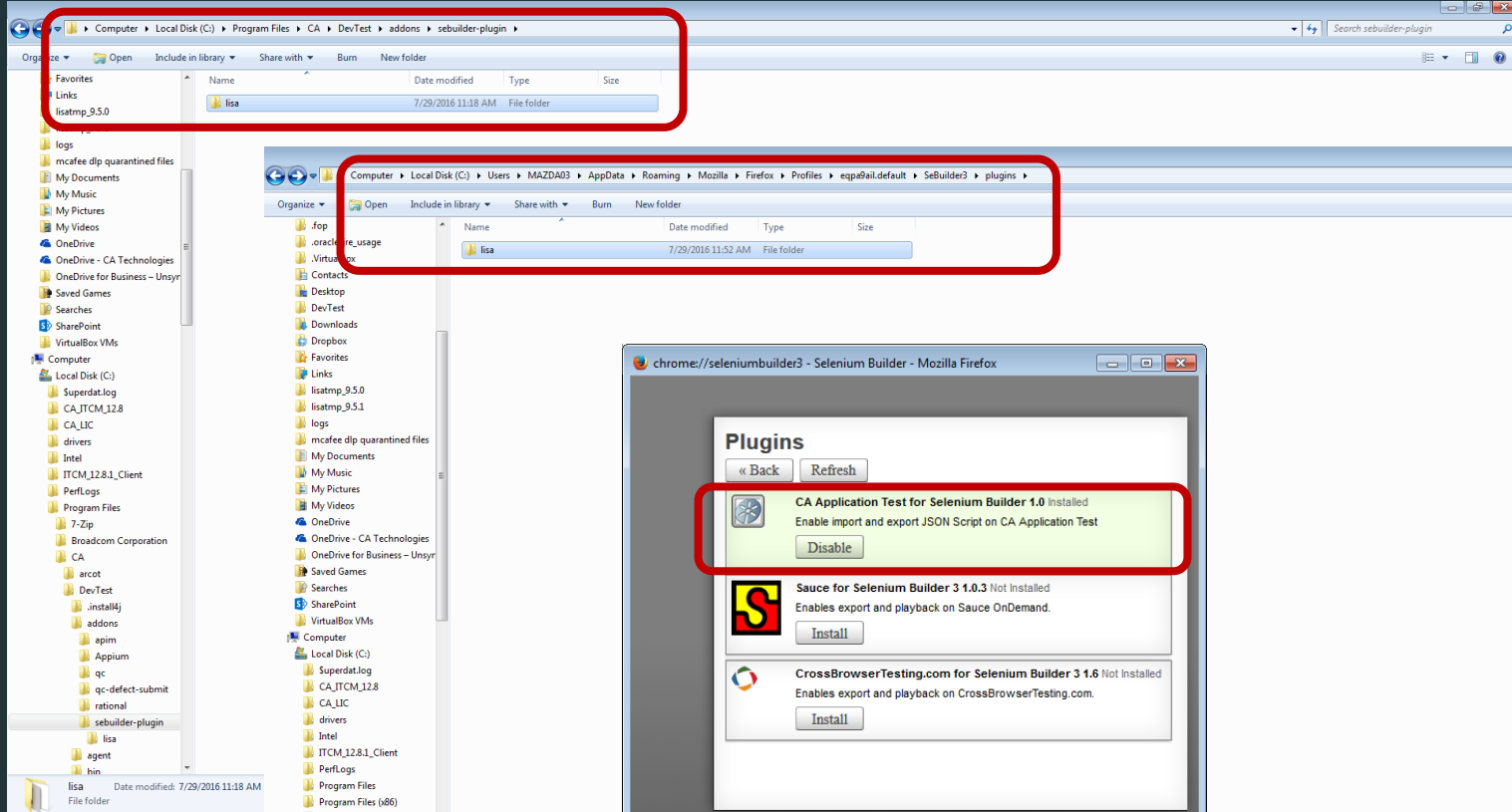
## 2. Install the CA Application Test for Selenium Builder 1.0 Plugin

- Plugins extend Selenium Builder's functionality (Sauce, GitHub, etc.)
- Go to the `<DEVTEST_HOME>\addons\sebuilder-plugin` directory
  - Typically `C:\Program Files\CA\DevTest\addons\sebuilder-plugin`
- Copy the entire *lisa* directory (and its contents)
- Go to your `<Firefox profile>\SeBuilder3\plugins` directory
  - To find your Firefox Profile Folder: From Firefox, select *Help* → *Troubleshooting Information*
  - Example: `C:\Users\<USERNAME>\AppData\Roaming\Mozilla\Firefox\Profiles\eqpa9ail.default`
- Paste the *lisa* directory into `<Firefox profile>\SeBuilder3\plugins`
- Verify that the plugin was successfully installed
  - From the Firefox menu, select *Developer* → *Launch Selenium Builder* → *Manage Plugins*

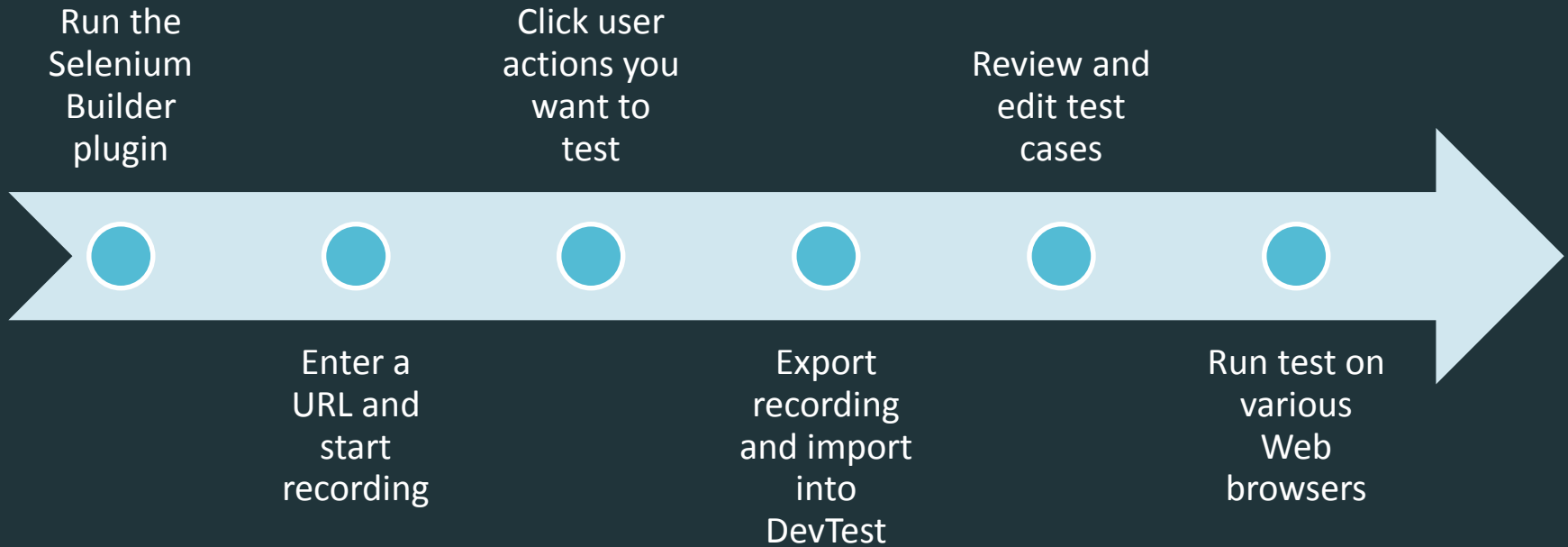
<https://docops.ca.com/devtest-solutions/9-5/en/reference/test-step-descriptions/selenium-integration-steps/import-a-selenium-builder-json-into-ca-application-test/install-the-ca-application-test-for-selenium-builder-1-0-plugin>







# Once installed, follow these steps to record and play back test cases in DevTest



### 3. Create a Recording in Firefox using Selenium Builder

- In Firefox, select *Developer* → *Launch Selenium Builder*
- Enter the URL of the web application you want to test in the *Start recording at* field
- Click *Record*
- Perform the actions you want to test on the Web application
- When you are done, return to Selenium Builder and click *Stop Recording*

<https://docops.ca.com/devtest-solutions/9-5/en/reference/test-step-descriptions/selenium-integration-steps/create-and-export-a-selenium-builder-recording>

**Selenium Builder :: Add-on...**

**Add-ons**  
EXTENSIONS THEMES COLLECTIONS MORE...

Register or Log in Other Applications **mozilla**

search for add-ons

Welcome to Firefox Add-ons. Choose from thousands of extra features and styles to make Firefox your own.

**Selenium Builder** 3.0.9 **REQUIRES RESTART**  
by Zarkonnen  
1 user review  
4,020 users

Create automated cross-browser functional tests easily and quickly.

**+ Add to Firefox**

**Developer**

**Launch Selenium Builder** Ctrl+Alt+B

**Selenium Builder**

- » Open a script exported by CA Application Test
- » Open a script or suite
- » Manage plugins

Start recording at

**Record**

This will delete all cookies for the domain you're recording for.

en | Select language

**Se**  
selenium  
builder

chrome://seleniumbuilder3 - Selenium Builder - Mozilla Firefox

» Add-on home page

Version 3.0.9 Info  
Last Updated: April 13, 2016  
Released under Custom License

★★★★★ Average

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**ca**  
technologies



## Vehicle History Report

2T1KR32E37C639014

LookUp

Report Run Date:

VIN:	2T1KR32E37C639014
Year:	2011
Make:	Audi
Model:	A4-B
Style/Body:	Sedan
Engine:	2.7 V6
Owners:	6
Odometer:	138560

Copyright 2014-2013 © CA Technologies

ForwardCars is a fictitious company name which use is strictly for instructional purposes only and is not meant to reference an existing company.

chrome://seleniumbuilder3 - Selenium Builder - Mozilla Firefox

File Record Run Suite Debug Data

Record a verification **Stop recording**

Record mouse events

1. get http://localhost:3434/cars-app/
2. clickElement link text: REVENUE SEARCH FIND YOUR NEXT CAR Search our expansive database to find your next car. No one can beat our selection, quality, or pricing. Each vehicle goes through a 99 point inspection.
3. clickElement xpath: //div[@class="col-sm-3"]div[1]div/div[2]/button[1]
4. clickElement xpath: //div[@class="modal-footer"]button[1]
5. clickElement xpath: //div[1]div[2]div/div[2]/form/input[2]

chrome://seleniumbuilder3/content/html/gui.html

chrome://seleniumbuilder3 - Selenium Builder - Mozilla Firefox

### Selenium Builder

- » Open a script exported by CA Application Test
- » Open a script or suite
- » Manage plugins
- Start recording at**
  - http://localhost:3434/cars-app/#/home
  - Record

This will delete all cookies for the domain you're recording for.

en | Select language

Se selenium builder

## 4. Export the Recording from Selenium Builder

- Click *File* → *Export* → *Save as JSON*
  - Test cases recorded in the Selenium Builder plugin can be saved in various formats, but must be exported as JSON to be used with DevTest
  - Once exported, the test cases can be imported into DevTest Workstation for editing and playback
  - Test cases can be replayed in various Web browsers such as Firefox, Chrome, and Internet Explorer

*NOTE: Selenium Builder test scripts must be exported in JSON-based format for editing in DevTest*

<https://docops.ca.com/devtest-solutions/9-5/en/reference/test-step-descriptions/selenium-integration-steps/create-and-export-a-selenium-builder-recording>

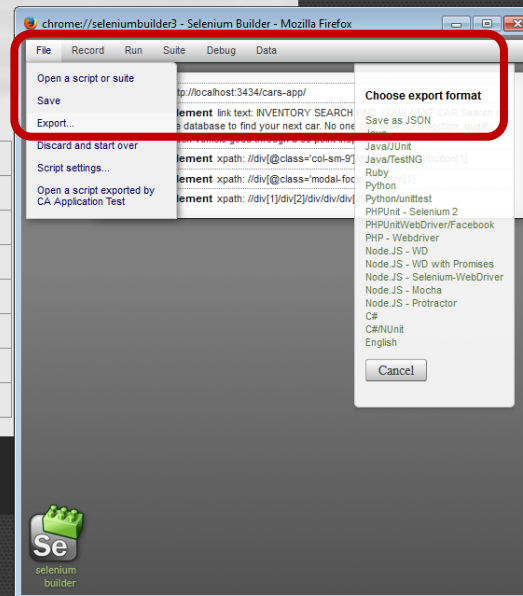
[Home](#) :: [Search](#) :: [VIN Lookup](#) :: [Loan Application](#) :: [Guest](#) ▾

2T1KR32E37C639014 [LookUp](#)

LookUp

Report Run Date:

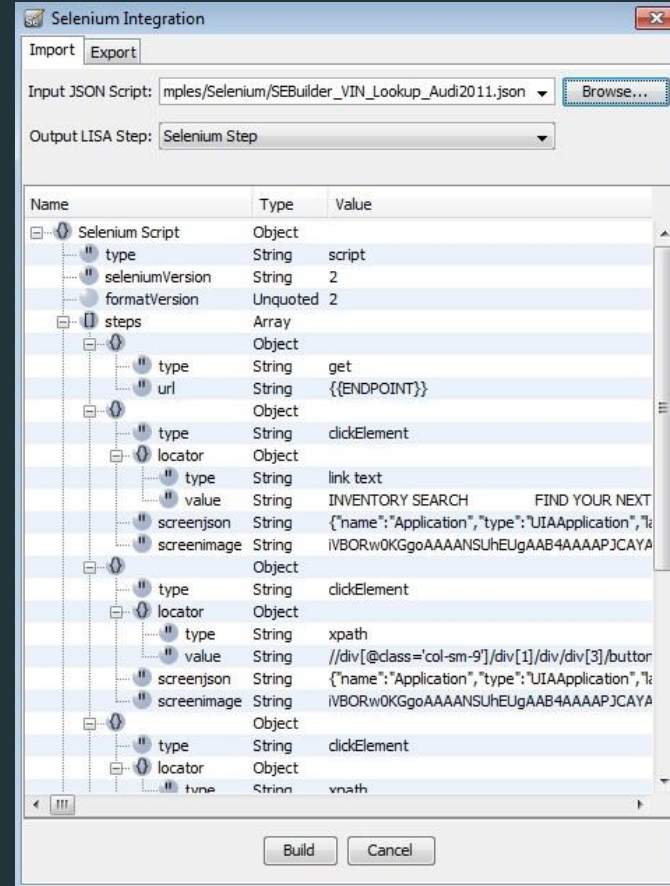
VIN:	2T1KR32E37C639014
Year:	2011
Make:	Audi
Model:	A4-B
Style/Body:	Sedan
Engine:	2.7 V6
Owners:	6
Odometer:	138560



# Notes about the JSON script Format

- Selenium Builder JSON-based scripts can be played back by a standalone interpreter so you can view and edit them in DevTest
- Selenium 2 JSON scripts contain:
  - A list of steps (such as “get” or “clickElement”) which have named parameters
  - Locators which describe how to find a particular DOM element (a link to click, for example) and contain a type (id, name, link text, css selector, or xpath) and value
  - Negation for Assertion and Verification steps to invert their condition
  - Variables to store values referenced in parameters (such as checking that a page's title appears in the page itself)
  - Version information for compatibility between Selenium versions

<https://github.com/admc/se-builder/wiki/JSON-Format>





## 5. Import the Recording to DevTest Workstation

- In DevTest Workstation, create a new test case
  - Right-Click on *Tests* → *Create New Test Case*
- Then add the Selenium test steps you exported previously
  - Right-Click in the blank space → *Add Step* → *Selenium* → *Selenium Import/Export*

<https://docops.ca.com/devtest-solutions/9-5/en/reference/test-step-descriptions/selenium-integration-steps/import-a-selenium-builder-json-into-ca-application-test>



## 6. Edit the Recording in DevTest Workstation

- Once a recording is imported, click on a test step and then click the *Selenium Step* tab in the right panel
- The details for the step are shown, including:
  - The JSON script that can be modified in-line
  - The step actions or gestures that can be modified
  - A screenshot of the test step
- Some actions can be edited using the XPath Editor
  - Click on the *Locator* link to open the XPath editor and edit the test step
- To add a new step
  - Right-click on a step and select *Add Step after <STEP\_NAME>*
  - You can drag-and-drop steps to change the order
  - You can import additional recordings and merge steps together into test scripts

<https://docops.ca.com/devtest-solutions/9-5/en/reference/test-step-descriptions/selenium-integration-steps/import-a-selenium-builder-json-into-ca-application-test/edit-selenium-test-steps-within-ca-application-test>

DevTest Solutions v9.5.1 (9.5.1.6) : DevTest Workstation (User: admin)

File Edit View System Actions Help

New Open Save Stage/Deploy Change Registry Toggle Registry VSE Recorder CVS Application Insight Reports Stop Close

Project: C:\Program Files\CA\DevTest\Projects\Cars\_Demo

VirtualServices  
Images  
VINLookup1.vsi  
VRScenarios  
VINLookup1.vsm  
Tests  
Subprocesses  
AuditDocs

SEBuilder\_VIN\_Lookup\_Audit\_2011

Get On Step Fail ClickElement On Step Fail ClickElement~1 On Step Fail ClickElement~2 On Step Fail ClickElement~3 On Step Fail

Step Information

Name: ClickElement~1  
Think time: 500 milliseconds  
To: 1 seconds  
Use global filters Quiet  
Execute on: local

Selenium Step

JSON Object:  
[[{"negated": false, "type": "clickElement", "locator": {"type": "xpath", "value": "//div[@class='col-sm-9']/div[1]/div/div[3]/button[1]"}}]

ClickElement

Action:  
Locator:  
//div[@class='col-sm-9']/div[1]/div/div[3]/button[1]

FORWARD CARS

Car Detail

Audi A4 B	
Price	\$3000
Mileage	100000
Owners	1
Model Year	2011
Color	Black
Title	Premium Plus
Engine	2.7 TFS
Transmission	Auto

image xpath://div[contains(@class,'col-sm-4')]/div[3]/img

Alert Behavior

System Messages

Build 9.5.1.6 2/28/16 10:34AM



## 7. Install the Browser Driver

- Recordings can be replayed in various Web browsers including Firefox, Chrome, Safari, and Internet Explorer
- To replay in a browser other than Firefox:
  - Download the Web browser driver
    - Chrome
      - <https://sites.google.com/a/chromium.org/chromedriver/downloads>
    - IE
      - <http://selenium-release.storage.googleapis.com/index.html?path=3.0>
  - Add the following properties to the project configuration file
    - Key: *selenium.browser.type*
      - Value: *Chrome* (or IE, Safari)
    - Key: *selenium.**chrome**.driver.path*
      - Value: *<PATH\_TO\_DRIVER>*
      - Example: *C:\lisa-se\chromedriver.exe*

# ChromeDriver - WebDriver for Chrome

 Search this site

CHROMEDRIVER  
CAPABILITIES & CHROME OPTIONS  
CHROME EXTENSIONS

CONTRIBUTING

DOWNLOADS

▼ GETTING STARTED

ANDROID

CHROME OS

▼ LOGGING

PERFORMANCE LOG

▼ MOBILE EMULATION

▼ NEED HELP?

CHROME DOESN'T START OR CRASHES  
IMMEDIATELY

CHROMEDRIVER CRASHES

CLICKING ISSUES

DEVTOOLS WINDOW KEEPS CLOSING

OPERATION NOT SUPPORTED WHEN  
USING REMOTE DEBUGGING

## Downloads

**Latest Release: [ChromeDriver 2.23](#)**

Supports Chrome v49-52

Changes include:

- A fix for ChromeDriver on Android 6.0 Marshmallow, which sometimes causes session initialization failures
- A fix for a bug where console log messages were not being seen by ChromeDriver

For details, please refer to the [notes](#). The latest version is recommended, and bugs will not be fixed in previous versions.

## Previous Releases

All ChromeDriver releases are hosted on Google Storage: [chromedriver.storage.googleapis.com](#)

### ChromeDriver 2.22

Changes include many bug fixes, particularly for Chrome 51+. This includes fixes for various scenarios that caused ChromeDriver to timeout and/or hang.

### ChromeDriver 2.21

Changes include numerous bug fixes, and improved support for recent versions of Chrome. A few changes were made to bring ChromeDriver in line with other WebDriver implementations, and may break some existing tests:

- Calls to `getTitle` will now return a blank string if the page has no title. Previous versions returned the URL of the page in this case. Tests that need to check for the URL should do so explicitly.
- Calls to `getUrl` will now return the URL of the top-level browsing context, rather than the URL of the current frame. This matches what is shown in the browser's address bar, and tests that need to check for the URL of the frame can evaluate the JS expression `window.location.href`.

### ChromeDriver 2.20

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Project C:\Program Files\CA\DevTest\Projects\Cars\_Demo

Registry VirtualServices Images VINLookup1.vsl VRScenarios VINLookup1.vsm Tests Subprocesses AuditDocs Suites StagingDocs CarsDemoFull\_20160712-100015870.tst DevTest\_config\_info.tst GtoolsXtn\_cars\_app\_20160721-111101921.tst GtoolsXtn\_cars\_appcarsEsb\_20160707-131458995.tst GtoolsXtn\_cars\_appregister\_20160707-134907630.tst SE\_Steps\_Cars\_Demo\_Login.tst SE\_Steps\_Cars\_Demo\_Register.tst SE\_Steps\_Cars\_Demo\_VINLookup.tst SE\_Steps\_Cars\_Demo\_VINlookup\_3VIN\_Extended.tst SE\_Steps\_Cars\_Demo\_VINlookup\_3VIN.tst SE\_Steps\_Cars\_Demo\_VINlookup\_9.tst SE\_Steps\_Cars\_Demo\_VINlookup\_Demo1.rsp.tst SE\_Steps\_Cars\_Demo\_VINlookup\_LoanApp.tst SE\_Steps\_Cars\_Demo\_VINlookup\_LoanApp2.tst SE\_Steps\_LISA\_Bank\_Deposit\_ChangeAddress.tst SEBuilder\_VIN\_lookup\_Audi\_2011.tst VINLookup\_API\_Test.tst Configs CarsDemoFull GtoolsXtn\_cars\_app GtoolsXtn\_cars\_appcarsEsb GtoolsXtn\_cars\_appregister Project Data

Properties Editor

Key	Value
SERVER	localhost
PORT	3434
SERVER 1	141.202.113.90
isa.baseline.xmldiff.config	<xmlDiffOptions> <ignoreNamespaces>false</ignoreNamespaces> <ignoreNamespace...
WSSERVER	141.202.113.90
WSPORT	3434
isa.vse.execution.mode	EFFICIENT
LIVE_INVOCATION_SERVER	localhost
LIVE_INVOCATION_PORT	3434
ENDPOINT	http://localhost:3434/cars-app/
CHROME_VIN	http://localhost:3000/carsbank
chrome.browser.type	chrome
selenium.chrome.driver.path	C:\Program Files\CA\DevTest\addons\sebuilder-plugin\chromedriver.exe

Assets

Name:

Description:

Find:

System Messages

Copyright © 2002-2016 CA

Build 9.5.1.6 270M of 430M



## 8. Run the Test in DevTest Workstation

- Save the Test by clicking *Save* on the toolbar in the top left corner
- Start an Interactive Test Run (ITR) and observe test steps as they are executed
  - Select *ITR (gear icon)* in the toolbar to open the ITR tab
  - Click the *Play* button to start the test
  - Observe the test actions in the Web browser and follow the steps in the ITR tab on the right

<https://docops.ca.com/devtest-solutions/9-5/en/using/using-ca-application-test/using-devtest-workstation-with-ca-application-test/running-test-cases-and-suites/run-a-selenium-integration-test-case>

DevTest Solutions v9.5.1 (9.5.1.6) : DevTest Workstation (User: admin)

File Edit View System Actions Help

New Open Save Save/Deploy Change Registry Toggle Registry VSE Recorder CVS Application Insight Reports Stop Close

Project C:\Program Files\CA\DevTest\Projects\Cars\_Demo

- VirtualServices
  - Images
    - VINlookup1.vsl
  - VRScenarios
    - VINlookup1.vsm
  - Tests
    - Subprocesses
    - AuditDocs
    - Suites
    - StagingDocs
    - CarsDemoFull\_20160712-100015870.tst
    - DevTest\_config\_info.tst
    - GtoolsXtn\_cars\_app\_20160721-111101921.tst
    - GtoolsXtn\_cars\_appcarsEsb\_20160707-131458995.tst
    - GtoolsXtn\_cars\_appregister\_20160707-134907630.tst
    - SE\_Steps\_Cars\_Demo\_Login.tst
    - SE\_Steps\_Cars\_Demo\_Register.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup\_3VIN\_Extended.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup\_3VINe.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup\_9.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup\_Demo1.rsp.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup\_LoanApp.tst
    - SE\_Steps\_Cars\_Demo\_VINlookup\_LoanApp2.tst
    - SE\_Steps\_LISA\_Bank\_Deposit\_ChangeAddress.tst
    - SEBuilder\_VIN\_Lookup\_Audi\_2011.tst
    - VINlookup\_API\_Test.tst
  - Configs
    - CarsDemoFull
    - GtoolsXtn\_cars\_app
    - GtoolsXtn\_cars\_appcarsEsb
    - GtoolsXtn\_cars\_appregister
    - project
  - Data

Interactive Test Run - 1 (project.config)

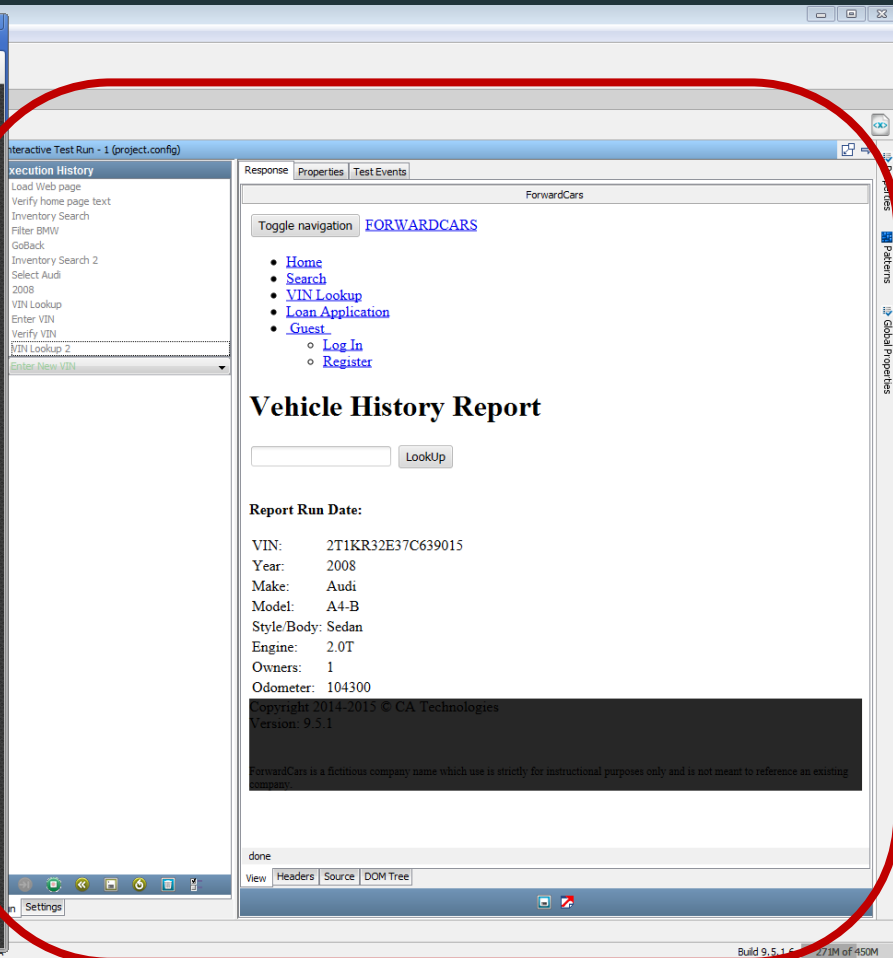
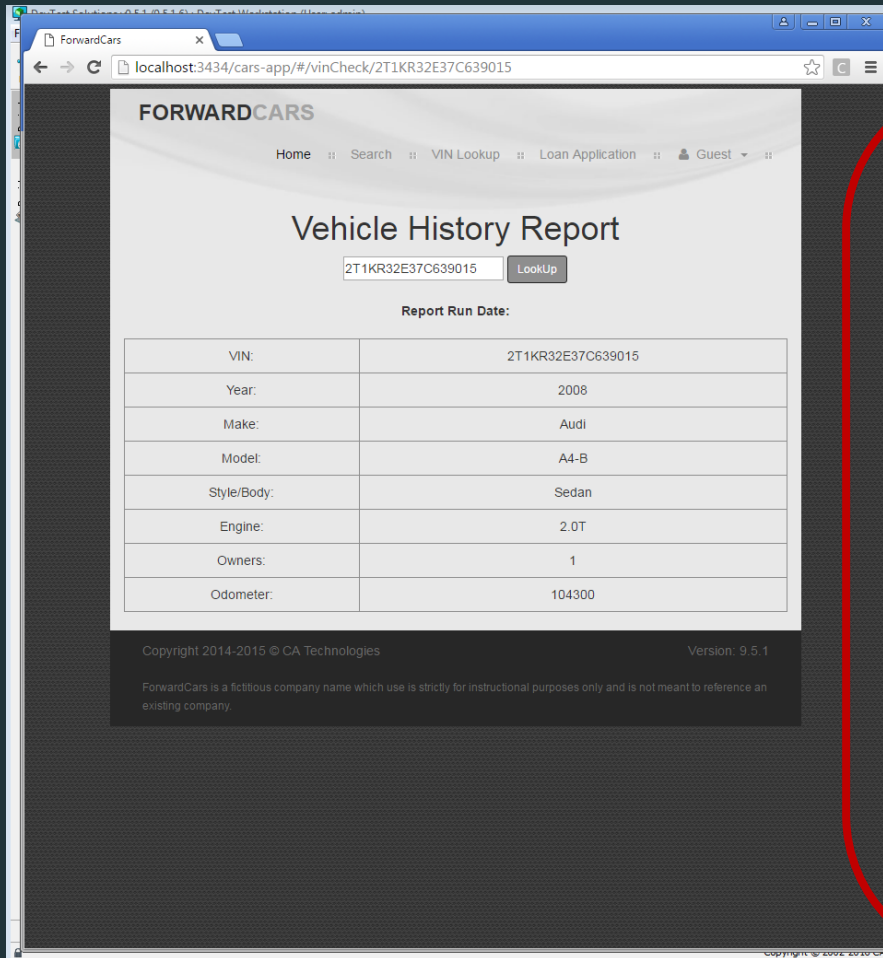
Execution History

- Load Web page

Response Properties Test Events

No result to display

Run



## 8. Run the Test in a Remote Browser

- On the **local** computer, add the following properties to the **project configuration file** you use for running test cases on the remote browser and make it **active**:
  - Key: `selenium.browswer.type`
    - Value: `Chrome`
  - Key: `selenium.chrome.driver.path`
    - Value: `C:\lisa-se\chromedriver.exe`
  - Key: `selenium.remote.url`
    - Value: `http://<remote_hostname>:4444/wd/hub`

*NOTE: If you plan to run Selenium Integration tests on multiple browsers (e.g., Chrome and IE), create a separate project configuration file for each browser type (e.g., `SE_Chrome.config` and `SE_IE.config`). You can then run the tests on multiple browsers by making different configuration files active for each test run.*

<https://docops.ca.com/devtest-solutions/9-5/en/using/using-ca-application-test/using-devtest-workstation-with-ca-application-test/running-test-cases-and-suites/run-a-selenium-integration-test-case#RunaSeleniumIntegrationTestCase-RunaSeleniumIntegrationTestonaRemoteBrowser>

DevTest Solutions v9.5.1 (9.5.1.6) · DevTest Workstation (User: admin)

File Edit View System Actions Help

New Open Save Stage/Deploy Change Registry Toggle Registry VSE Recorder CVS Application Insight Reports Stop Close

Project C:\Program Files\CA\DevTest\Projects\Selenium Demo

- VirtualServices
- Images
- VRScenarios
- Tests
- Subprocesses
- AuditDocs
- Suites
- StagingDocs
- SE\_Cars\_Apply\_Loan.tst
- SE\_Cars\_Demo9.tst
- SE\_Cars\_Inventory\_Search.tst
- SE\_Cars\_Login.tst
- SE\_Cars\_Register.tst
- SE\_Cars\_VIN\_Lookup.tst
- VINLookup\_Demo1.tst
- Configs
  - project
  - SE\_Chrome
  - SE\_Chrome\_Remote
  - SE\_IE
  - SE\_IE\_Remote

Properties Editor

Key	Value
selenium.browser.type	IE
selenium.chrome.driver.path	C:\isa-se\IEDriverServer2.exe
selenium.remote.url	http://10.151.17.141:4444/wd/hub

Assets

Name:  
Description:

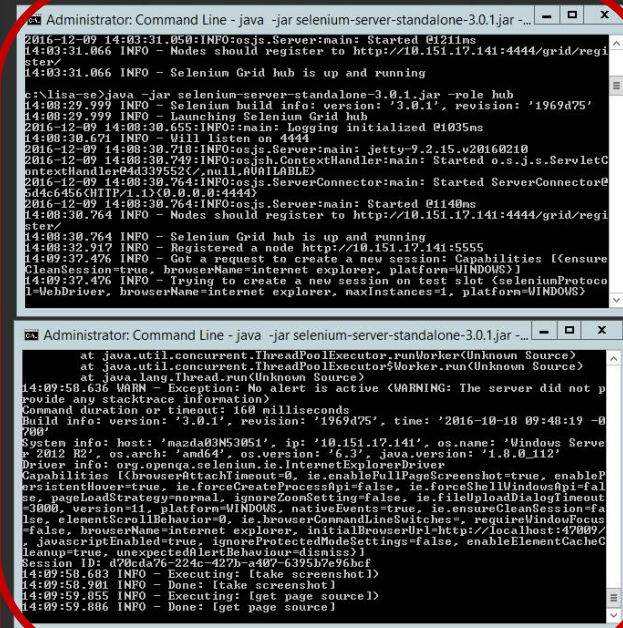
System Messages

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Build 9.5.1.6 3794 of 990M

## 8. Run the Test in a Remote Browser (Cont.)

- Download the Selenium Server and save it to the remote computer
  - Go to <http://www.seleniumhq.org/download/>
  - Locate the Selenium Standalone Server .jar file and download it
    - *selenium-server-standalone-3.0.1.jar*
- Verify that the driver for the browser that you want to use is available on the **remote** computer
  - *chromedriver.exe*
- Install Java Runtime Environment on the remote computer
  - <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- *Install Chrome browser on the remote computer*
  - <https://www.google.com/chrome/browser/desktop/>
- On the **remote** computer, run the following command from a command prompt:
  - *java -jar selenium-server-standalone-3.0.1.jar -role **hub***
- On the **remote** computer, run the following command from a **new** command prompt:
  - *java -jar selenium-server-standalone-3.0.1.jar -role **node** -hub http://localhost:4444/grid/register*
- *Run the test and view the test being run on the remote computer in the Chrome browser*
- *View the test results on the local Workstation*



DevTest Solutions v9.5.1 (9.5.1.6) : DevTest Workstation (User: admin)

File Edit View System Actions Help

New Open Save Stage/Deploy Change Registry Toggle Registry VSE Recorder CVS Application Insight Reports Stop Close

Project C:\Program Files\CA\DevTest\Projects\Selenium Demo

- VirtualServices
- Images
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  - SE\_Cars\_Demo9.tst
  - SE\_Cars\_Inventory\_Search.tst
  - SE\_Cars\_Login.tst
  - SE\_Cars\_Register.tst
  - SE\_Cars\_VIN\_Lookup.tst
  - SE\_Steps\_Cars\_Demo\_VIN\_Lookup\_Demo1.tst
- Configs
  - project
    - SE\_Chrome
    - SE\_Chrome\_Remote
    - SE\_IE
    - SE\_IE\_Remote
  - Data

Execution History

- Load Web page
- Verify home page text
- Inventory Search
- Filter BMW
- GoBack
- Inventory Search 2
- Select Audi
- 2008
- VIN Lookup
- Enter VIN
- Verify VIN
- VIN Lookup 2
- Enter New VIN
- VIN Lookup 3
- Output Log Message
- End the Test

The test has ended

Run Settings

System Messages

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# Things to Remember

- Installation
  - The CA Application Test for Selenium Builder Plugin is a plugin for Selenium Builder (plugin for a plugin)
- Browser Support (drivers)
  - Record in Firefox
  - Playback in Firefox, Chrome, Safari, or IE
- Assert vs. Verify
  - Verify fails at end of the test when step fails
  - Assert stops test when step fails
- Click vs. ClickAndWait
  - Click button may fail Assert/Verify
  - Use ClickAndWait with timeout instead
- Steps vs. Scripts
  - A Selenium Step is displayed as a single action (easy to edit)
  - A Selenium Script is a series of steps displayed together as one step (easy to change inputs using CSV data file)
  - Both can be linked together to form test cases in DevTest
- Selenium issues (it is Open Source, after all)
  - Switch to frames (use multiwindow instead)
  - Script playback in different browsers (requires Web drivers and Properties)
  - Recording not starting (disable and re-enable)



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