



Browser Automation Package

Readme

Version 3.0.1
14/01/2024

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1. Introduction

This document contains all essential information for the user to make full use of this A2019 *Command Package*. It includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the *Command Package*.

1.1 Overview

This package is designed to simplify web automation tasks and builds upon the existing(Web Automation) package, adding new features and addressing common pain points like session management and WebDriver version alignment, JavaScript alerts and other features.

The package actions allow to automate tasks in Google Chrome or Microsoft Edge in a high performance and accurate way using JavaScript code. It is based on ChromeDriver , EdgeDriver and Selenium

<https://chromedriver.chromium.org>

<https://developer.microsoft.com/en-us/microsoft-edge/tools/webdriver/>

<https://www.selenium.dev/>

1.2 Use cases

The key use cases include:

- Automate tasks in web pages that are very dynamic or use HTML elements like shadowroot
- Build powerful JavaScript based automation
- Automation of tasks in applications such as Salesforce or ServiceNow becomes more reliable
- Automatic Webdriver Management
One of the key enhancements of this package is its ability to automatically detect the browser version being used and download the appropriate webdriver. This eliminates the need for manual configuration and ensures seamless compatibility across various browser versions.
- Global Session Management
The actions of this package can use a shared session variable, allowing you to reuse the same browser session across multiple bots. This not only improves efficiency but also reduces resource consumption by avoiding the need to open and close browser sessions repeatedly.
- Handling JavaScript Alerts
Web applications often employ JavaScript alerts for various purposes. This package includes functionality to handle JavaScript alerts, ensuring that your automation scripts can interact with web applications that use them.

- **Enhanced Navigation Options**
Navigation within web applications is made more flexible with options to go back, forward, refresh, and open new tabs. These navigation features simplify interaction with complex web workflows.
- **Improved Table Extraction**
The package addresses issues related to table extraction from HTML content. It includes fixes and enhancements that make it easier to extract data from tables in web pages.

2. Requirements & Prerequisites

2.1 System Requirements

[Enterprise A2019 \(Cloud deployed\) and Community Edition device requirements.](#)

Review the machine hardware specifications, operating system versions, and browser types supported by Automation Anywhere Enterprise for creating and running bots and command packages as an Enterprise A2019 (Cloud deployed) or Community Edition user on your local machine.

2.2 Prerequisites

Chrome or Edge web browser should be installed.

3. Getting Started

3.1 Quick Start

3.1.1 Setup

- Install the package from Bot Store into your Control Room
- Enable the package named “Browser Automation” and set latest version as default
- Navigate to Bot Store\BrowserAutomation-BotDev to run and examine the demo.

Important Note for Community Edition Control Room Users

- **Warning:** Please be aware that in the Community Edition Control Room, the system does not automatically set the latest version of imported packages as the default. To ensure you are using the latest and fully functional features, you must manually change the package version to the latest version in every bot.

3.1.2 Configuration and Use

Start Browser Session: Select browser type and save the create a session variable/name. This variable/global session name can be used across child tasks to access this session. WebDriver path is optional and if not specified, matches installed browser version and uses updated driver version.

Browser Automation: Start Session

Start New Session

Required bot agent version: 20.11 or above

Browser

Chrome

Headless

False

True

Variable

User Profile path (optional)

”

(x)

Function Library (optional)

”

(x)

WebDriver path (optional)

Variable

Control Room file

Desktop file

Choose...

List of launch option arguments (optional)

List

Variable

”

(x)

Browser Automation session

Local session

Global session

Variable

Global session name can be used in parent and child bots.

” Default

(x)

- ▼ Session
 - 🌐 Start Session
 - 🌐 End session
- ▼ Alerts
 - 🌐 Accept
 - 🌐 Dismiss
 - 🌐 Get Text
- ▼ Set
 - 🌐 Clear Input
 - 🌐 Check
 - 🌐 Select
 - 🌐 Uncheck
 - 🌐 Send Key Strokes
 - 🌐 Set Values
 - 🌐 Set Value
- ▼ Window
 - 🌐 Close Window
 - 🌐 Get Current Window
 - 🌐 Get Windows
 - 🌐 Select Window
 - 🌐 Set Window Dimension
- ▼ Wait
 - 🌐 Wait Element Loaded
 - 🌐 Wait Page Loaded
- ▼ Click
 - 🌐 Click
 - 🌐 Click and Hold
 - 🌐 Focus
 - 🌐 Release
 - 🌐 Submit
 - 🌐 Drag an Drop
 - 🌐 Move to
- ▼ JavaScript
 - 🌐 Execute JavaScript
- ▼ Get
 - 🌐 Get Values
 - 🌐 Get Current URL
 - 🌐 Get Details
 - 🌐 Get Page Source
 - 🌐 Get Table Content
 - 🌐 Get Text
 - 🌐 Get Value
 - 🌐 Get Load Status
- ▼ Page
 - 🌐 Navigate Page
- ▼ Frame
 - 🌐 Select Frame
 - 🌐 Reset To Default

Comprehensive Activities for Various Scenarios

General rules

All actions that have element interactions support the identification of the element by

- XPATH
- Element ID
- Tag Name
- CSS Selector
- JavaScript code

You get the XPATH, CSS Selector and JavaScript Code in the Chrome or Edge developer console, Press F12 and then navigate to the element, right click on it and choose Copy->Copy JS path or Selector or XPath. You find the tag name and ID (if exists) in the console as well.

4. Support & FAQs

4.1 Support

Free bots are not officially supported. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on [APeople](#) – the [Bot Building Forum](#), the [Bot Store Support Forum](#), or the [Developers Everywhere Group](#).
- Automation Anywhere also provides a [Product Documentation portal](#) which can be accessed for more information about our products and guidance on [Enterprise A2019](#).

4.2 FAQs

You find more information about ChromeDriver, EdgeDriver and JavaScript selectors here

<https://chromedriver.chromium.org>

<https://developer.microsoft.com/en-us/microsoft-edge/tools/webdriver>

<https://developer.mozilla.org/en-US/docs/Web/API/Document/evaluate>

<https://developer.mozilla.org/en-US/docs/Web/API/Document/querySelector>

For questions relating to Enterprise A2019: See the [Enterprise A2019 FAQs](#).

Appendix A: Record of Changes

Instructions: Provide information on the version number, the date of the version, the author/owner of the version, and a brief description of the reason for creating the revised version.

No.	Version Number	Date of Change	Author	Notes
1	3.0.2	21/01/2024	Sumit Kumar	

Appendix B: References

No.	Topic	Reference Link
1	Overview of Enterprise A2019	Click here
2	Guidance: Building basic A2019 bots	Click here
3	Guidance: Building A2019 action packages	Click here
4	APeople Community Forum	Click here
5	Automation Anywhere University	Click here