



A2019 Excel Data Lookup Bot

Readme

Version 1.0
03/01/2020

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1. Introduction

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

1.1 Overview

The Excel Data Lookup Bot can be called from any A2019 bot and looks up the cell value corresponding to the column and row specified based on a specific Excel file. You can specify columns by title, label or number, and specify row by title or row number. This bot includes a sample code bot that executes all the various combinations of data lookup.

1.2 Use cases

The key use case for this bot includes extracting data from Excel spreadsheets to use in your business and operational processes. It performs the following functions:

- Reads an Excel value based on column and row number.
- Reads an Excel value from a spreadsheet with a header row based on header title and row number.
- Reads an Excel value from a spreadsheet with a header column based on column title, number or label and row title.
- Shows how to run the Excel Data Lookup Bot via the included sample bot.

2. Requirements & Prerequisites

2.1 System Requirements

Below are the minimum system requirements for running bots as an Enterprise A2019 (Cloud deployed) or Community Edition user on your local machine.

Hardware Requirements

Device	Processor	RAM	Storage (Free Space)	Network
Machine	Intel Core i5 2.6 GHz	4 GB minimum 8 GB recommended	32 GB	1 GbE
Bot Creator and Bot Runner	No additions to the machine requirements	No additions to the machine requirements	Add 100 through 150 KB per Automation Anywhere script Add 40 through 50 GB per long-term project	No additions to the machine requirements

Browser Requirements

The user interface for Automation Anywhere Enterprise is through a browser. Login to your device then login to Enterprise Control Room through a browser.

Browser	Browser Version	Automation Anywhere plug-in version ²	Supported bot functions by Bot agent version		
			2.0.2	1.0.2	1.0.1
Google Chrome ¹	57 or later	11 or 12	2.0.2	1.0.2	1.0.1
Microsoft Internet Explorer	11	N/A	None	Debugger only	All except Credential Vault

(1) Google Chrome re-verification

CAUTION: Google Chrome requires re-verification of permissions when the Automation Anywhere Google Chrome extension (Version 11.3.3 or later) is updated. If prompted, click **Enable this item** in the Google Chrome message. Alternatively, re-enable the extension through [chrome web store](#). Similarly, if you are deploying your Bot Runners from a master image, accept the permission from within that image.

(2) Google Chrome plug-in versions

A2019 supports Chrome plug-in version 11. If you have other versions installed, you might not be able to record tasks using the **Record** feature or **Capture** action. To resolve this issue, do the following:

1. Rename the automation.chrome.agent registry key to automation.chrome.agent.old. The registry key is available at: Computer\HKEY_CURRENT_USER\Software\Google\Chrome\NativeMessagingHosts
2. Disable all other Google Chrome plug-in versions you have installed, except for version 11.

2.2 Prerequisites

This bot uses A2019 and the Microsoft Excel application via the Advanced Excel commands. Your Excel file may be stored in your Control Room (as is shown in the sample bot) or in the File System. Please refer to the sample bot for examples.

3. Getting Started

3.1 Quick Start

3.1.1 Setup

3.1.1.1 Excel

You will need Microsoft Excel installed on your Bot Runner machine and the ability to get your Excel file in the file system of that machine or in the Control Room in order to execute this bot.

3.1.2 Configuration

Review and setup the variables happen in the calling bot. The sample calling bot included is called “A2019 Excel Data Lookup Sample Bot”. It contains examples of the various ways to invoke the Excel Data Lookup Bot. There are 3 required and two optional input values, and 2 output value.

When calling a subtask, the return value is always of type dictionary, and the value(s) returned from the subtask can be access through their specific variable names as a key within the dictionary.

INPUT VARIABLES: Input Variables to be mentioned in this Table				
Variable Name	Type	Mandatory	Purpose	Example Input
in_ExcelFile	File	Yes	Specifies source Excel file for lookup	File variable: \$vExcelFile\$ or Desktop file page: C:\Documents\Excel_file.xlsx
in_ColumnId	String	Yes	Column Identifier for lookup	“Column title” when using title Column Lookup type “A” when using label Column Lookup type “7” when using number Column Lookup type
in_RowId	String	Yes	Row Identifier for lookup	“Row title” when using title Rpw Lookup type “5” when using number Row Lookup type
in_ColumnLookupType	Yes	No	The type of column lookup you want to perform	Options: title label number label is default if excluded
in_RowLookupType	Yes	No	The type of row	Options:

			lookup you want to perform.	title number title is default if excluded
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OUTPUT VARIABLES: Output Variables to be mentioned in this Table.				
Variable Name	Type	Mandatory	Purpose	Example Output
out_CellFound	String	-	The location where the value was found	Access via: \$vResponseDict\$("outCellFound") Example: C24
out_Value	Dictionary		The value in the cell referenced	Access via: \$vResponseDict\$("outValue") Example: 56.55

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

Q: Can I make changes to this bot?

A: Absolutely. Free bots are for you to make use of, customize, and/or include in your builds as you see fit.

Q: Can I upgrade the packages for this bot?

A: Yes – but know that the bot was created/tested on a specific package version. Any modifications to that may result in unexpected outcomes – so make sure to test the bot/subtask after making any package version modifications.

Q: How can I change the output format of the bot?

A: When calling a subtask, the return value is always of type dictionary, and the value(s) returned from the subtask can be access through their specific variable names as a key within the dictionary.

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

Appendix A: Record of Changes

No.	Version Number	Date of Change	Author	Notes
1	1.0.0.0	3/1/2020	Max Mancini	Initial release of Bot

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