GOOGLE DRIVE BOT

EXPORT GOOGLE SHEETS FROM EXCEL INPUT

Content

OVERVIEW

This how to guide introduces the *Google Drive Bot - Export Google Sheets from Excel INPUT*. Instead of spending precious time and resources on repetitive, manual tasks, let Automate go to work and streamline your IT and business processes with robotic process automation. Automate can take over the manual steps which greatly reduces repetitive activities and improves the quality and consistency of the work. The top processes being automated are report generation, file movement, data import and export, and scheduling batch processing.
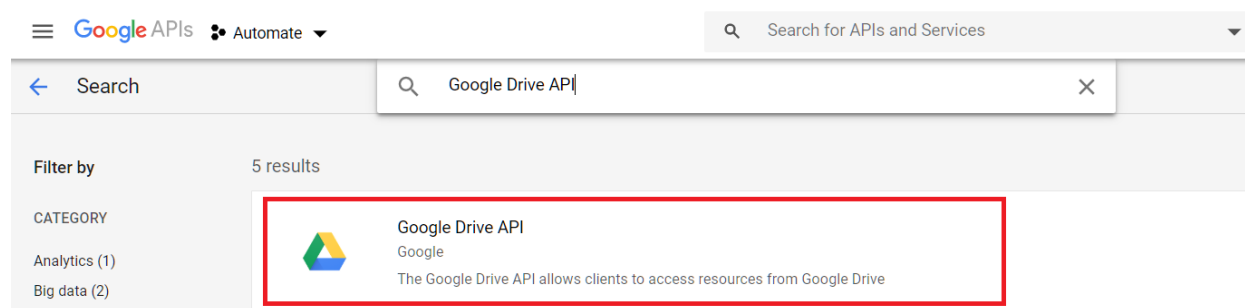
The ***Google Drive Bot - Export Google Sheets from Excel INPUT*** is based in **the Google Drive API**. It exports/converts the files listed in the Google Sheets INPUT Excel file provided with this task by executing the **"*files*"** HTTP GET method. After completion, the Excel file is updated with the result of the execution for each Google Sheet set to be exported. You will be able to set the ***format*** to which you want the Google Sheets to be converted to and download. This bot uses an API Token authentication method to avoid using username and password. The Token is associated to the account used and scopes used during Authorization Code generation. Carefully check the PREREQUISITES, the HOW TO GENERATE THE INPUT FILE and the HOW TO EXECUTE THE GOOGLE DRIVE BOT - EXPORT GOOGLE SHEETS FROM EXCEL INPUT sections to get detailed information.

There is also a *GOOGLE BOT - GENERATE AND REFRESH TOKEN* available hat will provide an easy way for first creation and refreshing of the token for this bot to work on a daily basis. By default, the token expires after 1 hour. This bot is based in the OAuth Authorization Code Workflow.
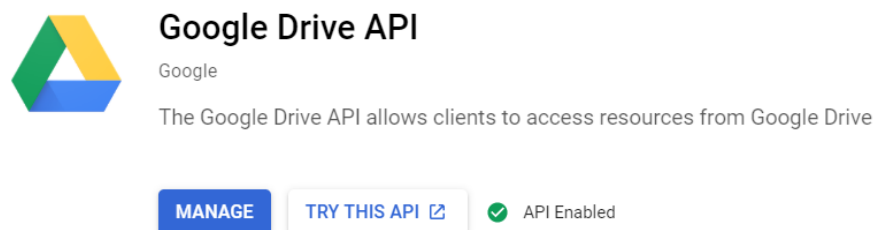
PREREQUISITES

- **Automate:** The Google Drive Bot depends on Automate software in order to work. The minimal supported versions are:

    o **Automate Ultimate 11.2**

    o **Automate Plus 11.2**

    o **Automate Desktop 11.2**

- **Automate Markup Language file (.AML):** The primary file type used in Automate which contains the steps of our Google Drive Bot task

- **Google Drive API:** Our minimal requirements are

    o **Enable the Google Drive API in your Google account:** In order to be able to connect through API to the Google Drive, you need to enable it within your developer console account. To do so, enter the console with this link. Once logged in for the first time, you will be asked to create a project, all your integrations with Google will be associated to a project. In next image you can see that we named the project "Automate". Go to API library menu in the left and look for the Google Drive API:

Once enabled the status will be shown as this:

o **Create a Token to Connect with the Google Drive API:** Once the API was enabled, follow the procedure provided by Google within this link, to obtain a **OAuth 2.0 Token** with one of the next Scopes to be able to read the Google Drive Data:

"*https://www.googleapis.com/auth/drive*"

"*https://www.googleapis.com/auth/drive.readonly*"

Remember that we also provide in our *BotStore* the "**Google Drive Bot - Generate and Refresh Token**" based on the Oauth2.0 Authorization Code Workflow. This bot will provide to you an easy way to maintain the Token and Token-Refresh and be able to execute this bot on a daily basis.

o **Google Drive API Version:** This bot was created using the Google Drive API v3.
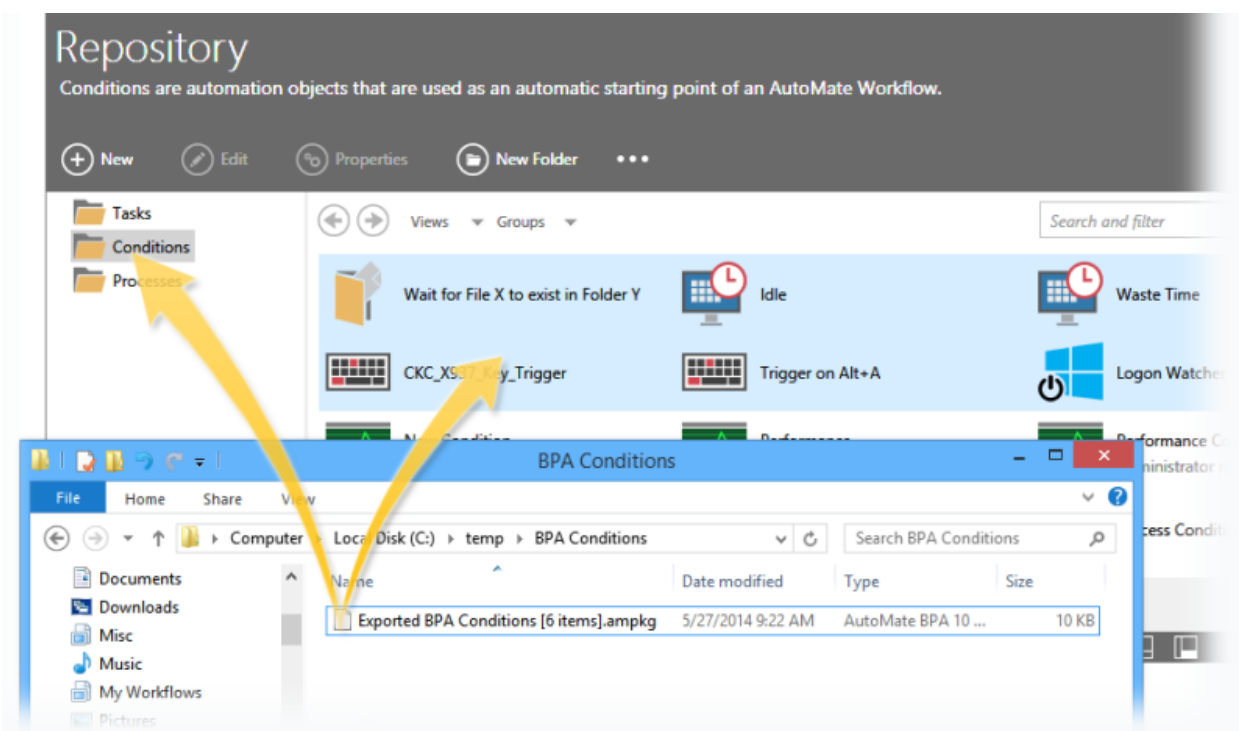
HOW TO IMPORT AN AUTOMATE TASK

Compatible file types can be imported to the repository via drag-and-drop

From the Server Management Console, navigate to the Repository section

Drag the desired file(s) from its original location and drop them into the folder in the SMC. Files can be dropped into the folder icon or the main panel (as shown below). Imported object(s) are automatically placed into their corresponding repository location.
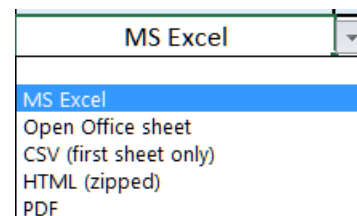
HOW TO GENERATE THE INPUT FILE

The input file **"Google Sheets Input.xlsx"** shipped with this bot provides a self-explanatory guide to complete all the fields in your transaction automatically.

The Excel INPUT file

A	B	C	D	E	F
Google Sheets to Export			Exported?		Details
Google Sheet Name	Export Format	Destination Folder	Yes/No	Date	File ID / Result Message

NOTES:

- *Red fields* are mandatory.

- The Bot will obtain the Google Sheet ID internally by using the Google Sheet Name.

- The Destination Folder will be a Local Folder path in which you want to save the resulting files.

- For the Export Format you will be able to choose one of the following:

  MS Excel

  MS Excel
  Open Office sheet
  CSV (first sheet only)
  HTML (zipped)
  PDF

- Columns D to F in the INPUT file will be filled with the result of the execution and the Sheet ID when exported/converted. See APPENDIX A for an example on the resulting.
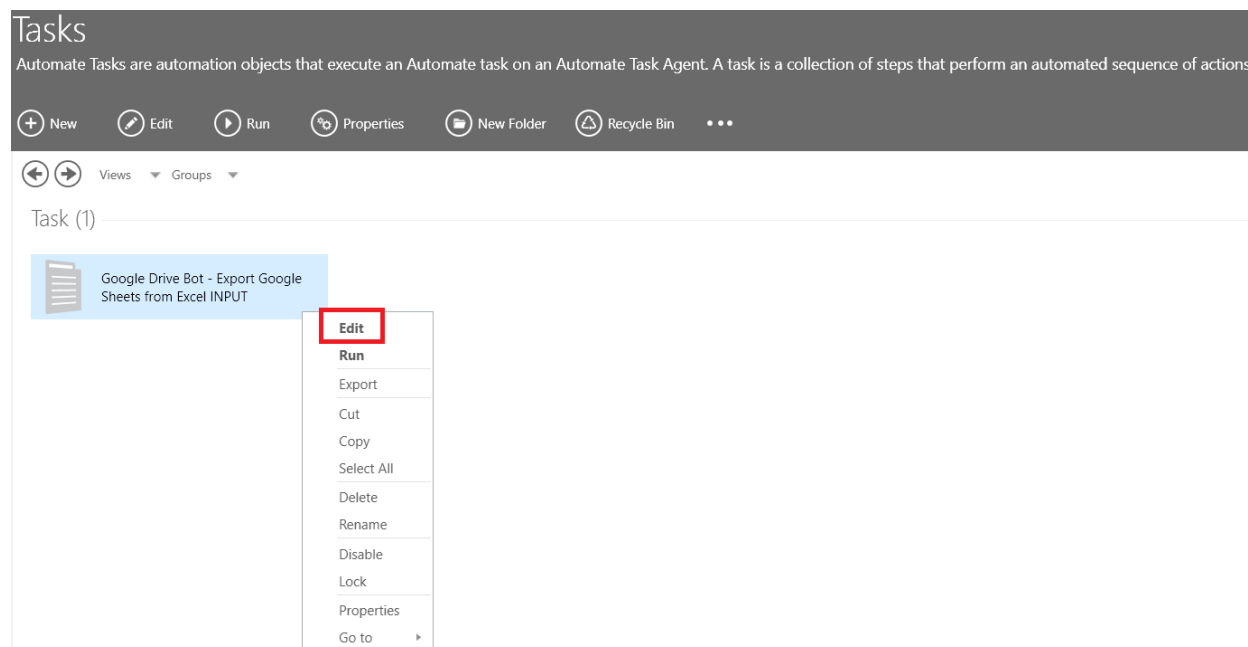
How to execute the Google Drive Bot - Export Google Sheets from Excel INPUT

If this is the first time running this task, we will need to set some parameters

Open the Server Management Console and locate the imported task

Edit the imported task by right clicking on the task and selecting edit

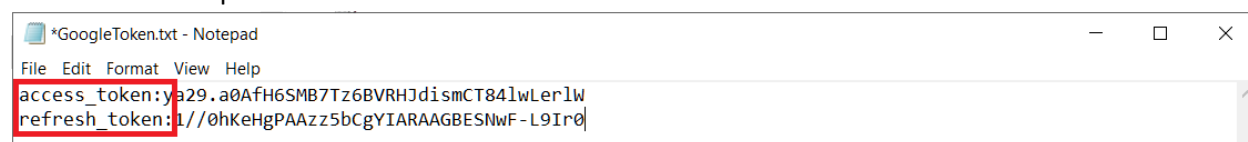From step 2 edit the next variables according to you desired output:

- var_ExcelInputFile: Set the location path and name of the Google Sheets INPUT file for exportation. Example: D:\Automate\Google Sheets Input.xlsx

- var_Token: Set your Token for connection (String) or the path of the file with the token information. Remember that the token will be associated to the account we connect/request with. It can be set to the token value itself or the path in which the .txt file with the token inside is located.

  Example: **C:\Automate\ GoogleToken.txt**

  In the case of using a .txt file, the token must have the next format/structure:

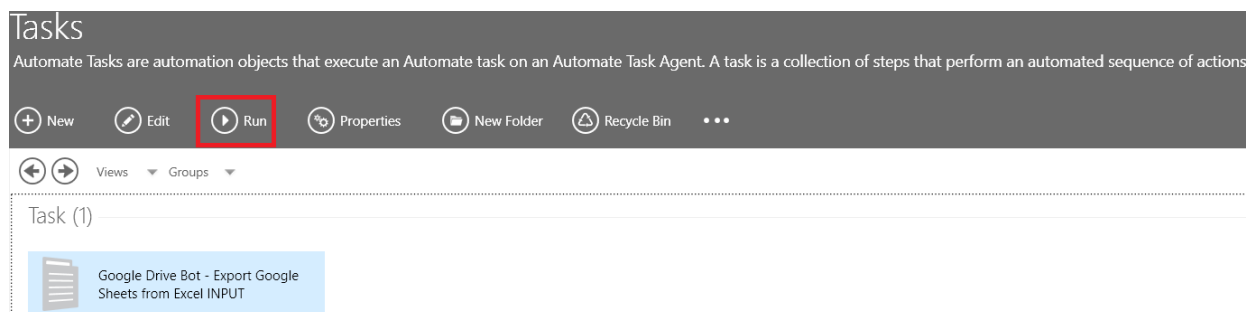 **access_token:TokenString**

  Example of the file:

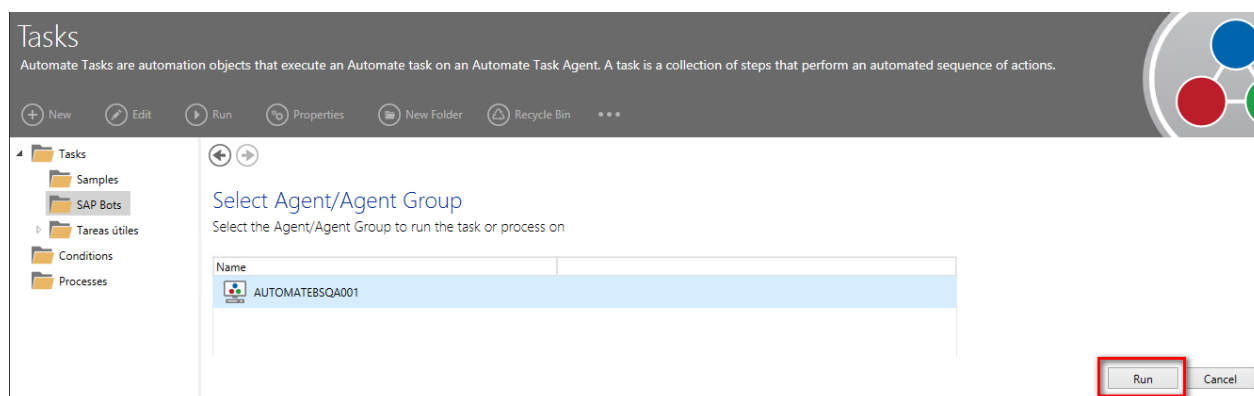*Note that there is a refresh_token value, this is managed by Google Bot - Generate and Refresh Token*

Save and close the task

Select the task and click on Run

Select your Agent and click on Run again

Google Sheets Files in drive:

My Drive > Automate ▾

Name ↑	Owner	Last modified	File size
Sheet 1	me	Jul 27, 2020 me	–
Sheet 2	me	Jul 27, 2020 me	–
Sheet 3	me	Jul 27, 2020 me	–

Input Excel with Results:

A	B	C
	Google Sheets to Export	
Google Sheet Name	**Export Format**	**Destination Folder**
Sheet 1	MS Excel	D:\Automate\GoogleSheets\
Sheet 2	CSV (first sheet only)	D:\Automate\GoogleSheets\
Sheet 3	PDF	
Sheet 1	Open Office sheet	
Sheet 2	HTML (zipped)	

D	E	F
Exported?	**Details**	
Yes/No	**Date**	**File ID / Result Message**
YES	28/07/2020 9:15:30 AM	1zZ2Re0xUDmqAM-o3F1PmnqDqi9KphA089PXW4Z3HBCU
YES	28/07/2020 9:15:33 AM	1iurn-AiqW4eM2GWG7txawTxahouqqyQlHr2U_LrPAw8
YES	28/07/2020 9:15:36 AM	13A9nQXMGR7LOOLAy5QcMS86qDWIIZJ1C6SAhNkvnkOY
YES	28/07/2020 9:15:41 AM	1zZ2Re0xUDmqAM-o3F1PmnqDqi9KphA089PXW4Z3HBCU
YES	28/07/2020 9:15:43 AM	1iurn-AiqW4eM2GWG7txawTxahouqqyQlHr2U_LrPAw8

Resulting Files in Local drive:

> Automate > GoogleSheets

Name	Date modified	Type	Size
☑ Sheet 1.ods	28/07/2020 9:15 AM	OpenDocument S…	11 KB
Sheet 1.xlsx	28/07/2020 9:15 AM	Microsoft Excel W…	4 KB
Sheet 2.csv	28/07/2020 9:15 AM	Microsoft Excel Co…	1 KB
Sheet 2.zip	28/07/2020 9:15 AM	zip Archive	192 KB
Sheet 3.pdf	28/07/2020 9:15 AM	PDF File	26 KB

- Logs: Each iteration of our bot creates a log file for troubleshooting. You can locate the log file under C:\Automate\Tasks\<<TASK NAME>>. By Default, the task name is *Google Drive Bot - Export Google Sheets from Excel INPUT.*