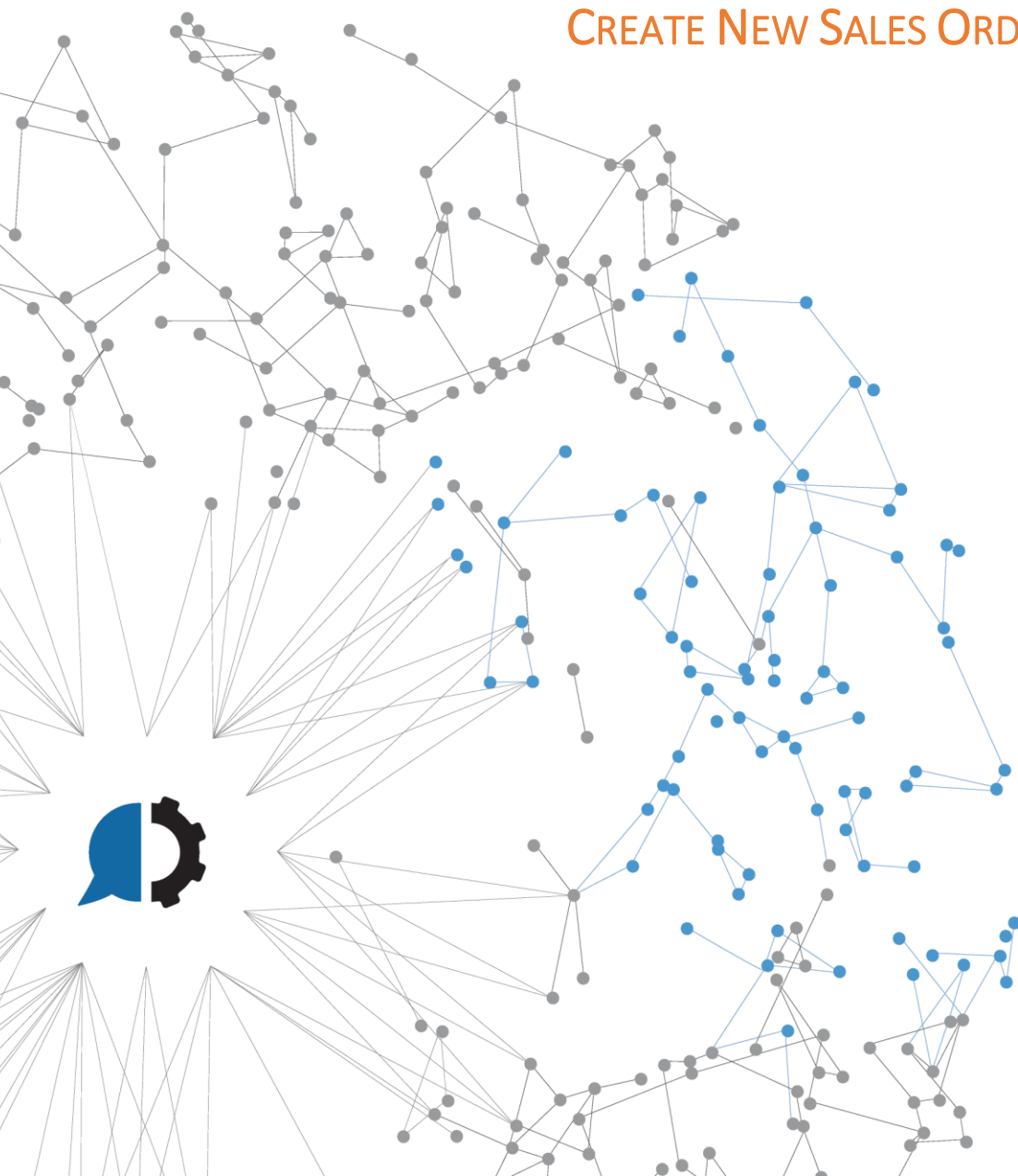




SAP BOT

CREATE NEW SALES ORDERS (SD - VA01)





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DETAILS

DOCUMENT INFORMATION

AUTHOR	CUSTOMER	CREATION DATE
Helpsystems	<<CLIENT>>	29/01/2020

DESCRIPTION

This document provides information to help you understand the implementation, architecture and interfaces for the Automate Enterprise SAP BOT.

DELIVERY LIST

<<CLIENT>>	<<CONTACT1>> <<CONTACT2>>
HELPSYSTEMS	José Garay Dario Soria Sebastian Alvarez

FILE VERSIONING

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	29/01/2020	José Garay	Initial document



OVERVIEW

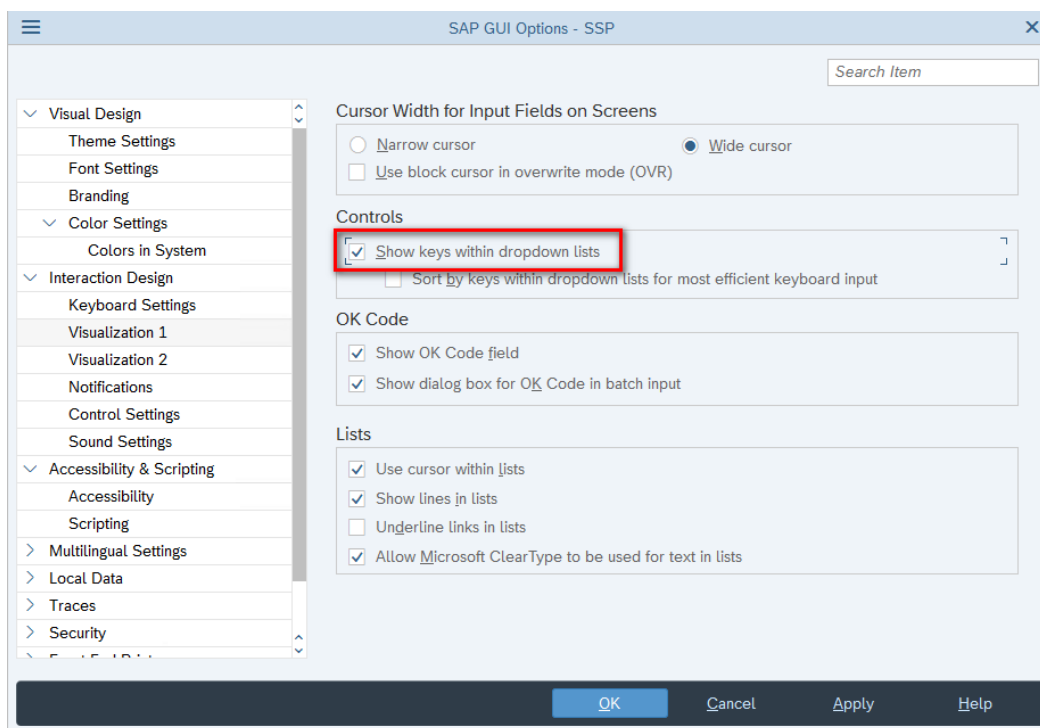
This how to guide introduces the *SAP Bot - Create New Sales Orders (SD - VA01)*. Instead of spending precious time and resources on repetitive, manual tasks, let Automate go to work and streamline your IT and business processes with robotic process automation. With the help of Automate we can take over manual steps which greatly reduces the repetitive activities and improves the quality and consistency of the work. The top processes being automated are reports generation, file movement, data import and export, and scheduling batch processing.

SAP Bot - Create New Sales Orders (SD - VA01) uses an excel as the input for your new Sales Orders creation. Each field corresponds to a particular field in your SAP transaction. Please, see section “HOW TO GENERATE THE INPUT FILE” for further explanation.



PREREQUISITES

- **Automate:** The SAP BOT depends on Automate software in order to work. The minimal supported versions are:
 - Automate Ultimate 11.2
 - Automate Plus 11.2
 - Automate Desktop 11.2
- **Automate Markup Language file (.AML):** The primary file type used in Automate which contains the steps of our SAP BOT task
- **SAP Create Customer Master Data INPUT.xlsx**
- **SAP:** Our minimal requirements are
 - SAP Logon 760
 - Show keys within dropdown lists enabled

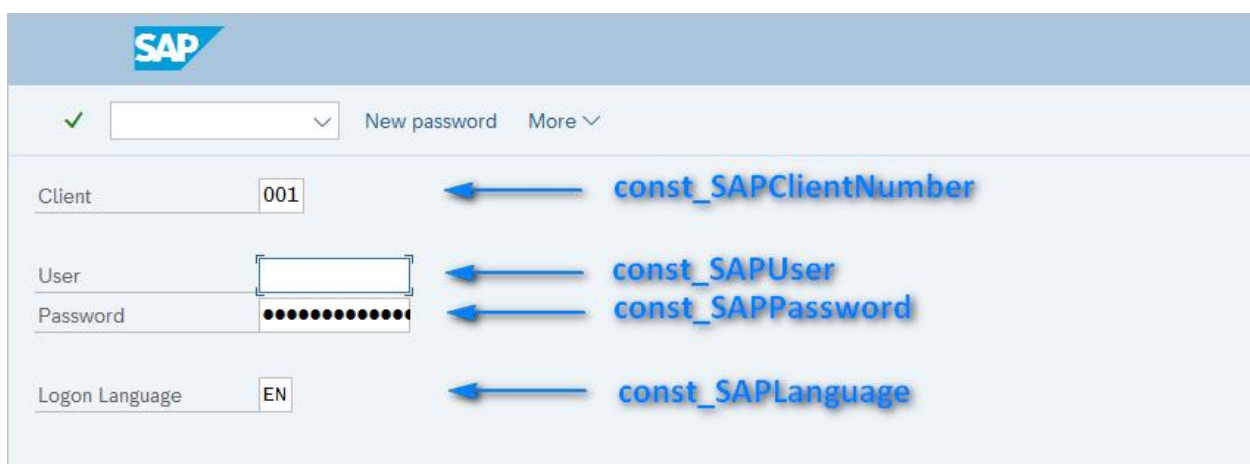
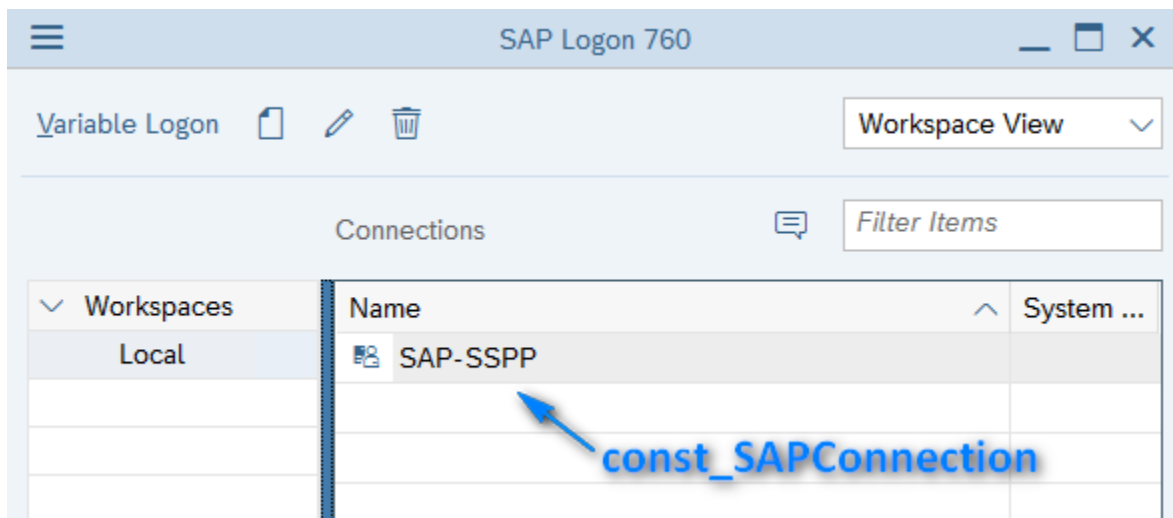


- A user with enough privileges to run the XD01 transaction

To check if you have the required level of authorization to run this and any transaction use SU53. Simply execute VA01 and then execute /NSU53 immediately afterwards. A report of all authorizations checked will then be displayed



- Automate constants:
 - `const_SAPClientNumber`: SAP Client Number. By Default: 001
 - `const_SAPConnection`: SAP Login connection name
 - `const_SAPLanguage`: SAP Language. By Default: EN
 - `const_SapLogonPath`: SAP executable path. By Default: C:\Program Files (x86)\SAP\FrontEnd\SapGui\saplogon.exe
 - `const_SAPPassword`: SAP Login Password
 - `const_SAPUser`: SAP Login Username



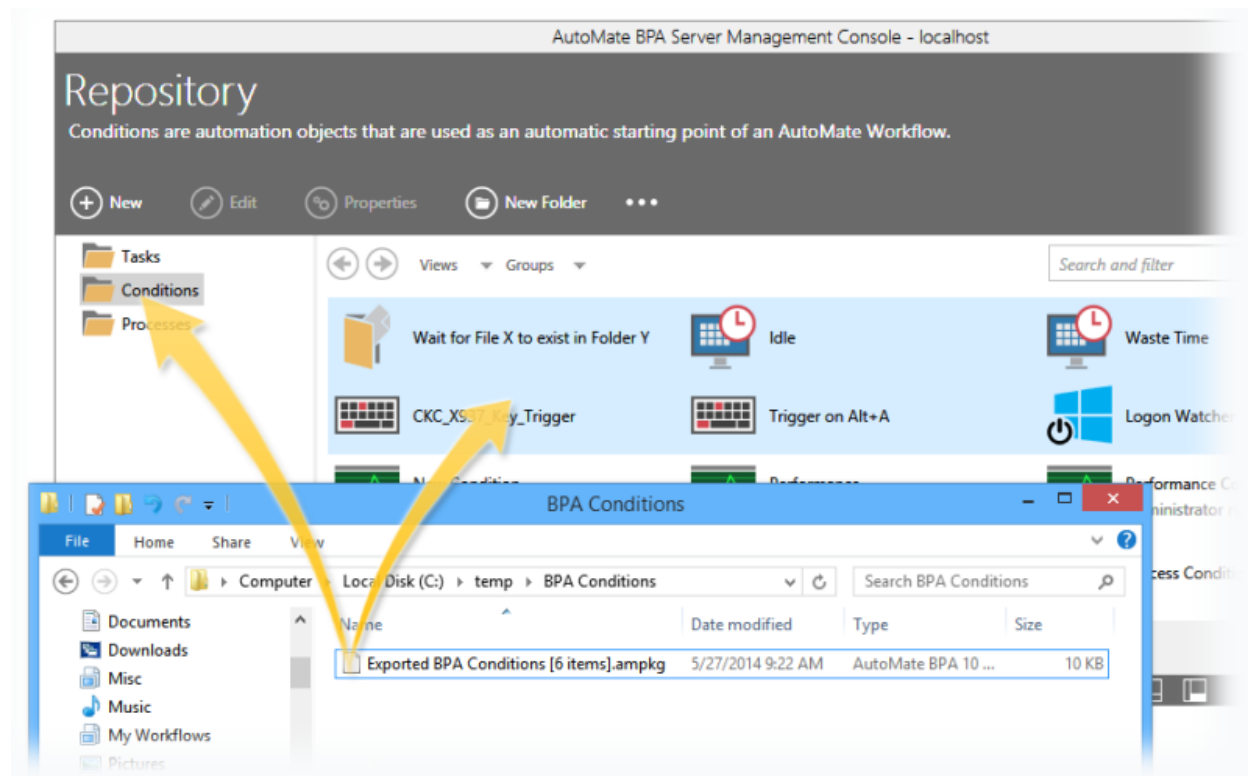


HOW TO IMPORT AN AUTOMATE TASK

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 shipped with the SAP BOT provides a self-explanatory guide to complete all the fields in your transaction automatically.

Each section corresponds to a particular screen in your SAP Transaction.

NOTES:

- **Red fields** are mandatory

Create Order - INICIAL SCREEN

Order Type

Organizational Data

Sales Organization	
Distribution Channel	
Division	
Sales office	
Sales group	

A	B	C	D	E	F
Create Order - INICIAL SCREEN					
Order Type	Sales Organization	Distribution Channel	Division	Sales office	Sales group
VBAK-AUART	VBAK-VKORG	VBAK-VTWEG	VBAK-SPART	VBAK-VKBUR	VBAK-VKGRP

BE	BF	BG	BH	BI	BJ	BK
Card Number	Exp.date	Card Verif.Code	Payment terms	Incoterms	Incoterms	Order reason
CCDATA-CCNUM	CCDATE-EXDATBI	CCARD CVV-CVVAL	VBKD-ZTERM	VBKD-INCO1	VBKD-INCO2	VBKA-AUGRU SalesTab



Create Order Item Overview Tab

Sales Item overview Item detail Ordering party Procurement Shipping Reason for rejection

Req. deliv.date 28.01.2020 Deliver.Plant

All items

	Item	Material	Order Quantity	Un	S	Description
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	

< >

BM	BN	BO
Create Order Item Overview Tab		
Req. deliv.date	Req. deliv.date	Deliver.Plant
RV45A-KPRGBZ_ItemOverviewTab	RV45A-KETDAT_ItemOverviewTab	RV45A-DWERK_ItemOverviewTab

Create Order Item Detail Tab

Sales Item overview Item detail Ordering party Procurement Shipping Reason for rejection

Material

Pricing date

Order Quantity 0 <-> 0

Batch Bus.transaction type

Reason for rejection

Unloading Point Receiving point

Plant

All items

	Item	Material	Order Quantity	Un	S	Description
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	

< >

BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA
Create Order Item Detail Tab										
Sales Document Item	Item category	Material	Order Quantity	Sales unit	Batch	Bus.transaction type	Reason for rejection	Unloading Point	Receiving point	Plant
VBAP-POSNR	VBAP-PSTYV	VBAP-MATNR	RV45A-KWMENG	VBAP-VRKME	VBAP-CHARG	VBAP-EXART	VBAP-ABGRU	KUWEV-ABLAD	VBKD-EMPST	VBAP-WERKS



Create Order Ordering Party Tab

Sales Item overview Item detail **Ordering party** Procurement Shipping Reason for rejection

Req. deliv.date 28.01.2020 Deliver.Plant

Pricing date 28.01.2020

All items

	POItem	Customer Material Numb	Item	Order Quantity	SU
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					

CC	CD	CE	CF
Create Order Ordering Party Tab			
Req. deliv.date	Req. deliv.date	Deliver.Plant	Pricing date
RV45A-KPRGBZ_OrderingPartyTab	RV45A-KETDAT_OrderingPartyTab	RV45A-DWERN_OrderingPartyTab	VBKD-PRSDT_OrderingPartyTab

Create Order Shipping Tab

Sales Item overview Item detail Ordering party Procurement **Shipping** Reason for rejection

Complete dlv. ☐ Total Weight 0,000

Delivery block 03 Bottleneck material ☐ Volume 0,000

Overall status Delivery status

All items

	Item	Material	Deli...	DlvDateForGrp.	N...	Delivery Date	Mat.Av.Dt.	Loading Date
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								


CI	CJ
Create Order Shipping Tab	
Complete dlv.	Delivery block
VBAK-AUTLF_ShippingTab	VBAK-LIFSK_ShippingTab




Create Order Reason for Rejection Tab

Sales Item overview Item detail Ordering party Procurement Shipping Reason for rejection

Order reason

All items 

	Item	Material	Reason for rejection	Net value	Descripti
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					



CL
Create Order Reason for Rejection Tab
Order reason
VBAK-AUGRU_ReasonRejectionTab



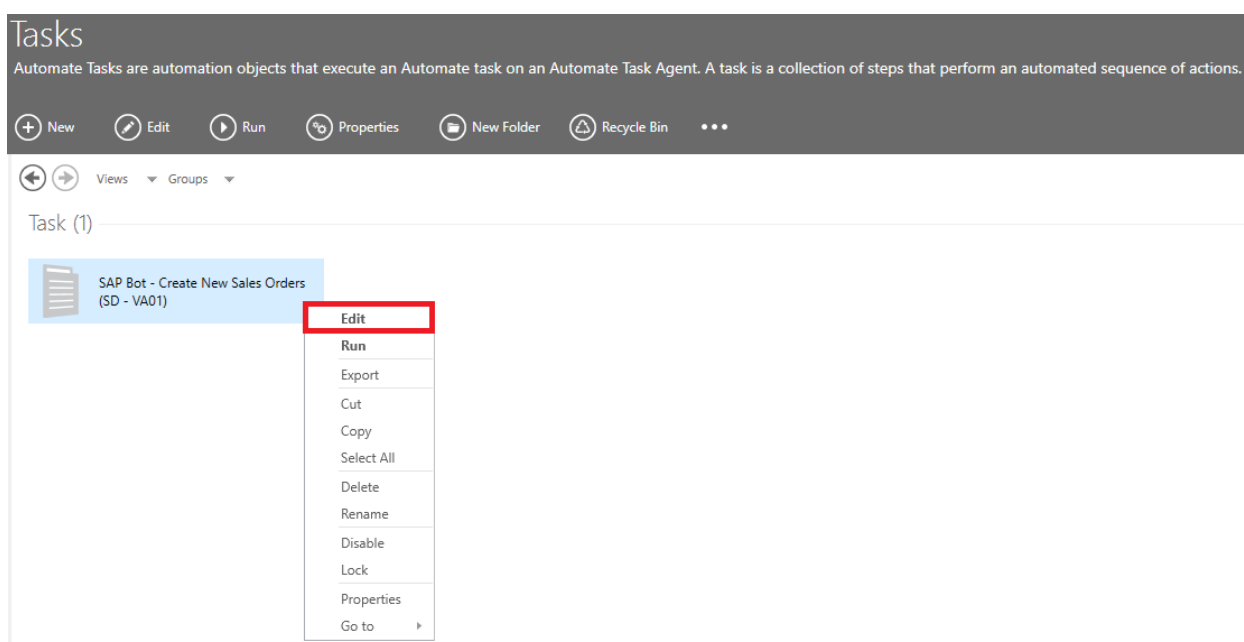
HOW TO EXECUTE THE SAP BOT - CREATE NEW SALES ORDERS (SD - VA01)

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

After editing the excel file [SAP Create Customer Master Data INPUT.xlsx](#) save it to a trusted location.

Open the [Server Management Console](#) and locate the imported task

Edit the imported task by right clicking on the task and selecting [edit](#)

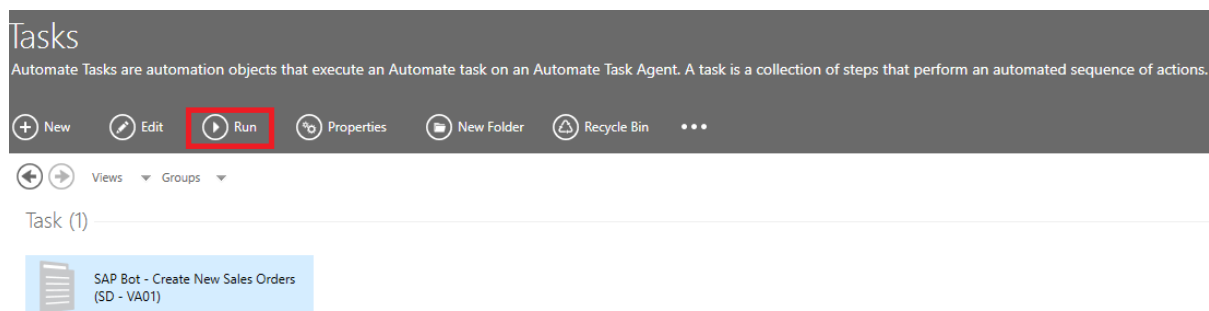


Locate [step 4](#) and edit the variable [var_ExcelInputpath](#) with the location of your input excel file

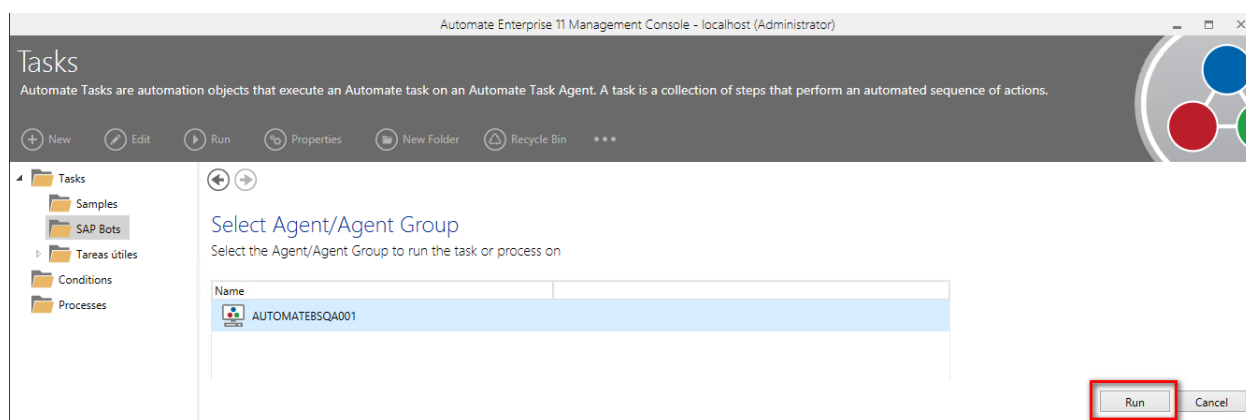
[Save and close](#) the task



Select the task and click on **Run**



Select your **Agent** and click on **Run** again





APPENDIX A - TROUBLESHOOTING

There are 2 very useful resources to diagnose and troubleshoot our BOT.

- Excel File: After each execution, the excel file is populated with the outcome of such execution. This is an example of the outcome:

CN	CO	CP
RESULT		
Processed	Detail	
Yes/No	Date	Message
NO	11/28/2019 5:53:03 PM	Error: The method got an invalid argument. Field/Element: VBAK-SPART
YES	11/28/2019 5:53:34 PM	Standard Order 3 has been saved

We log the output directly from SAP. For further explanation about these errors, please refer to the SAP help guide.

- 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 *SAP Bot - Create New Sales Orders (SD - VA01)*

About HelpSystems

Organizations around the world rely on HelpSystems to make IT lives easier and keep business running smoothly. Our software and services monitor and automate processes, encrypt and secure data, and provide easy access to the information people