



EXTERNAL

SAP Best Practices for Intelligent Automation for SAP Business One

Sales Order Creation from a Local Purchase Order

Technical Specification

THE BEST RUN



TABLE OF CONTENTS

TECHNICAL OVERVIEW.....	3
Bot Type	3
PREREQUISITES.....	3
SOFTWARE REQUIREMENTS	4
BOT SETUP	4
Trigger Input Parameters	5
COMPONENTS	6
BOT WORKFLOW	6
OUTPUT AND LOGS.....	7
CONSTRAINTS.....	7
SECURITY.....	7

TECHNICAL OVERVIEW

The Sales Order Creation from a Local Purchase Order bot is an SAP Business One best practice project template for SAP Process Automation. The bot automates the process of creating a sales order from one or more local purchase orders received from the customer. The bot sends an external purchase order to the Document Information Extraction service (SAP AI Business Services) to scan the information. The extracted details are passed by the bot to SAP Business One using the Open Data Protocol to create a draft sales order and upload the document to the draft.

This bot can be used as a standalone bot or work with the Business Document Extraction from E-mail bot, which extracts customer purchase orders from e-mails and places the files in an automatically created folder structure. To further automate and improve the accuracy of the sales order creation, users can use the Master Data Enrichment for Business Partner Identification bot, which helps the bot to identify the business partner code based on the scanned information such as the business partner name, address, and bank account.

Bot Type

This bot can be set up in unattended mode using SAP Process Automation.

Attended	Unattended	Screen Scraping
No	Yes	No

PREREQUISITES

- **Windows Credentials**

You have added a generic credential in Windows Credential Manager for user authentication to SAP Business One by the SAP Process Automation bot. For more information, see *Setting Up Windows Generic Credentials* in the online help for SAP Business One 10.0.

- **Root Folder**

You have created a folder with an arbitrary name in the local system that will function as the root folder for the automation. The bot will use the root folder to:

- Create a log folder where log files will be stored
- Store the business documents in a categorized folder structure

For more information, see the [Output and Logs](#) section.

Note: If this bot is working with other bots in an end-to-end automation process, all bots must use the same local root folder.

- **Configuration File**

You have downloaded the two configuration files that are available in the **Documents** section of the bot project in the [SAP Intelligent RPA Store](#) and placed it inside the root folder. You can also access the bot project and configuration files in the Application Development for SAP Process Automation on the **Store** tab.

Outlook rules							
Rule	Business Object	Company Code	Outlook Account	Recipient Name	Recipient search criteria	Unread Emails only	Subject
1	Purchase Order	MC1000					

Note: Details related to each field can be displayed by hovering over the field name.

“Business Object” and “Company Code” are business values and required fields. The “Company Code” field is needed to process the business documents for a specific entity. In this field, enter an arbitrary value (consisting of numbers, letters, or both) to identify the company. If you are using branches for the SAP Business One company, you can enter the branch identification number.

The fields with green headers are e-mail filter parameters and are only required if you are using the Business Document Extraction from E-mail bot. In this case, use the same configuration file for both bots. The rows of the e-mail filter values are connected using the logical operator “or”, while the columns within a row are connected using the logical operator “and”. You do not need to specify all the filter values (if a filter value is blank, that filter will be ignored).

Each row in the configuration file corresponds to a filter rule. For each rule, the bot creates the folders for each company code and business object inside the root folder. When adding the scheduled trigger for the bot in the Application Development, you need to specify the name of the configuration file as the variable “configExcelFilename”. The configuration file must be closed while running the bot.

Note: If the bot is working with other bots in end-to-end automation process, use the same configuration file for all the bots (except for the bot-specific configuration files for Activity Creation for Business Partners), with the business object and company codes specified for each bot.

The second configuration file is specific for running the Sales Order Creation from a Local Purchase Order bot. It contains instructions for the bot in the form of three rules and a confidence score.

Type	Description	Value
Rule 1	Do you allow the creation of a SO if a CustomerID was not identified based on the scanned Customer Name?	YES
Rule 2	Do you allow the creation of a free text product in SO if a ProductID was not identified based on the scanned Product Name?	YES
Rule 3	Do you need to Maintain Shipping address details in Comment Field ?	YES
Confidence Score	Confidence score for Field values extracted & Account ID Predicted must be equal or greater than this SET VALUE to be considered in Sales order creation	0,3

- **Rule 1:** Indicate if you allow the sales order to be created if “CustomerID” (customer code) is not identified based on the scanned customer name. If you answer “Yes”, you need to enter a valid customer code value in the trigger variable “DefaultCustomer” when creating the trigger for the bot (for more information, see *Trigger Input Parameters* in the [Bot Setup](#) section). If “CustomerID” is not identified, the sales order draft will be created using the value you specify for this trigger variable as the customer code.
- **Rule 2:** Indicate if you allow a product to be created if “ProductID” is not identified based on the scanned product name. If “ProductID” is not identified, a product with free text is still created in sales order draft.
- **Rule 3:** Indicate if the user can maintain shipping address details in a comment field.
- **Confidence Score:** Enter a confidence score (ranging from 0-1.0) as the criteria for the bot to filter out the fields that have predicted percentage above the stated confidence value.

SOFTWARE REQUIREMENTS

- Microsoft Excel
- Application Development for SAP Process Automation. For more information, see [Subscribing to SAP Process Automation](#) in the application help for SAP Process Automation on SAP Help Portal (EN only).
- Desktop Agent 2.0.20 or higher. For more information, see [Install Desktop Agent to Run Automations](#) in the application help for SAP Process Automation on SAP Help Portal (EN only).

BOT SETUP

1. Acquire the Sales Order Creation from a Local Purchase Order project from the [SAP Intelligent RPA Store](#). You can also acquire the project in the Application Development for SAP Process Automation on the **Store** tab.
2. Deploy the bot and add a scheduled trigger.
3. Register and add an agent.
4. Wait for the scheduled trigger or start a bot run immediately (in **Monitor** → **Automations**, click the **Actions** icon and choose **Run now**).

For more information on steps 1-3, see *Setting Up and Deploying Best Practices Template Bots in the Application Development* in the online help for SAP Business One 10.0.

Trigger Input Parameters

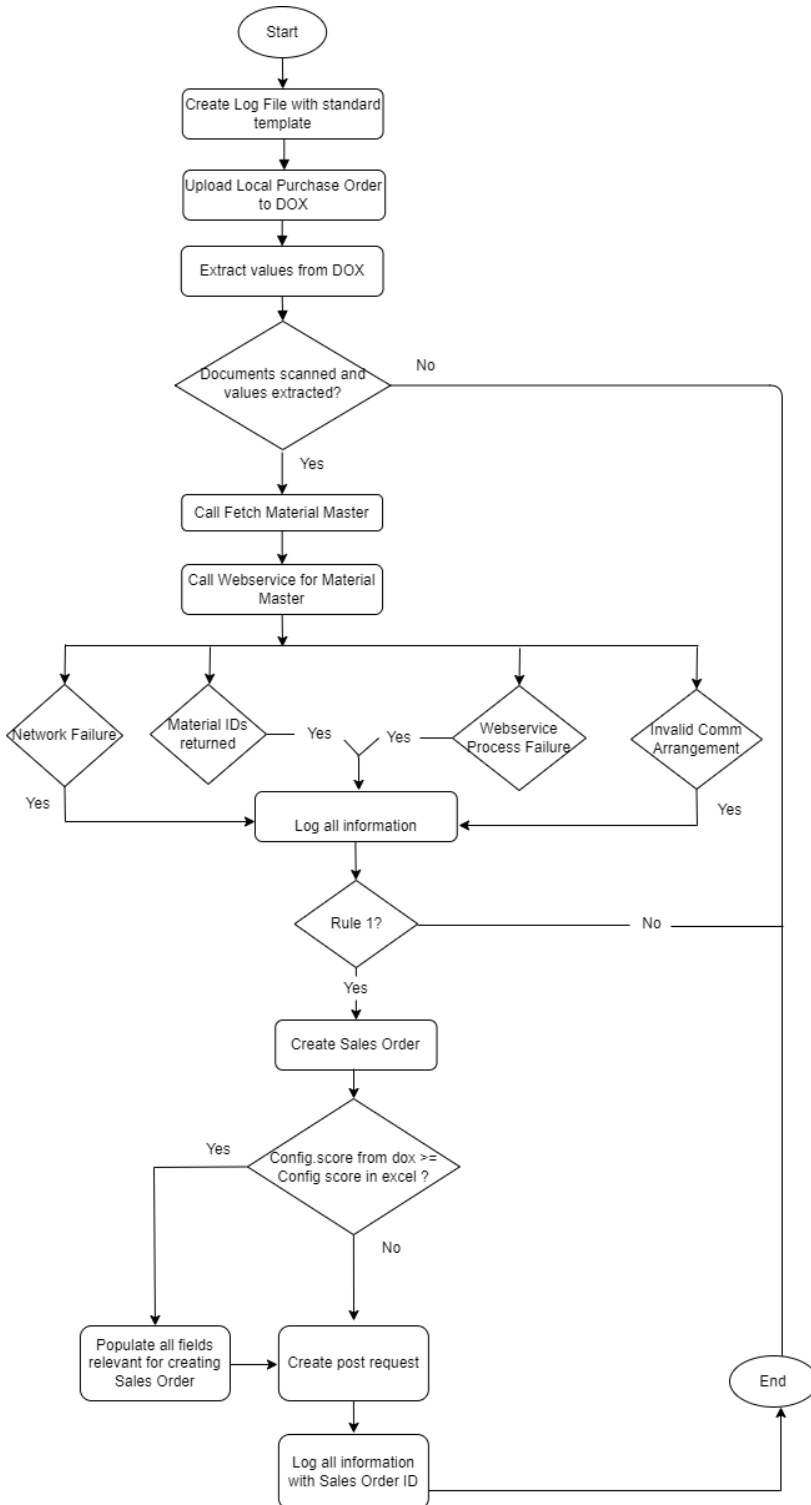
The following table provides details on the trigger input parameters for SAP Process Automation that are required for running the bot.

Trigger Variable Name	Type	Sample Value	Description
DefaultCustomer	Text	C2xxxxx	The code for a customer to be used if the customer code is not determined automatically during the bot run. Note: This is only relevant if you answered "Yes" to Rule 1 in the second configuration file.
businessOneDBName	Text	MyDB	The name of the database that contains the data tables to be used by the bot.
rootFolderPath	Text	C:\Users\Desktop\SPA	The root folder location where the configuration files are stored.
ConfigExcelFileName	Text	Config.xlsx	The name of the universal configuration file that contains the business object, company code, and (if using the Business Document Extraction from E-mail bot) the parameters for filtering e-mails.
B1CredentialEntryName	Text	B1_Credentials	The name you provided for the credentials you set in Windows Credential Manager in the <i>Internet or network address</i> field. Note that the credentials information needs to be set as the SAP Business One user name and password.
businessOneTenantUrl	Text	https://<IP address>:<port>	The IP address of the server that hosts the SAP Business One tenant. This is the address of the SAP Business One Service Layer to be accessed by the bot. The '50000' appended to the URL is the standard Service Layer port for SAP Business One; this value may differ depending on your configuration.
salesOrderConfigFileName	Text	Sales_Order_Creation_Config.xlsx	The bot-specific configuration file that is used to create sales orders based on the values for the three rules and confidence score.

COMPONENTS

Library	Type	Comments
Excel	Read	Used to get input data from the end user.
Excel	Write	Used to write/create/modify files during the bot run.

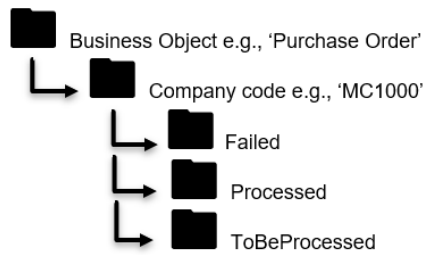
BOT WORKFLOW



OUTPUT AND LOGS

- **Root Folder Structure**

For each rule in the configuration file, the bot requires the following folder structure inside the root folder:



If you are using the Sales Order Creation from a Local Purchase Order bot as a standalone bot, you need to manually create the required root folder structure. In the "Purchase Order" folder, each folder you create corresponding to a company code needs to contain three subfolders: "Failed", "Processed", and "ToBeProcessed". If you are using the Business Document Extraction from E-mail bot, the bot automatically creates the required folder structure (ensure that you are using the same configuration file for the bots).

Purchase orders that you want the bot to process need to be placed in the local "ToBeProcessed" folder. If you are using the Business Document Extraction from E-mail bot, relevant files downloaded from e-mails are automatically placed by the bot in the "ToBeProcessed" local folder.

The bot creates a draft sales order in SAP Business One and uploads the purchase orders received by the specified company in PDF format to the sales order. Successfully processed purchase orders are moved to the "Processed" folder, while purchase orders that failed to be processed are moved to the "Failed" folder in the local or shared folder.

- **Logs**

The bot creates a folder named "Logs" inside the root folder to store the log files for each bot run. If a "Logs" folder already exists from another bot, this bot uses the same folder to store the log files.

Note: Log files should not be opened while running the bot.

CONSTRAINTS

- This bot only processes PDF files.
- This bot can only work on a Microsoft Windows operating system.

SECURITY

Certain configuration scenarios require a technical user. In such cases, every natural person needs a separate technical user (for example, a separate communication arrangement). The user should not share their credentials with any other natural person.

For security-relevant information that applies to SAP Process Automation, see [Security](#) in the application help for SAP Process Automation on SAP Help Portal (EN only).

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