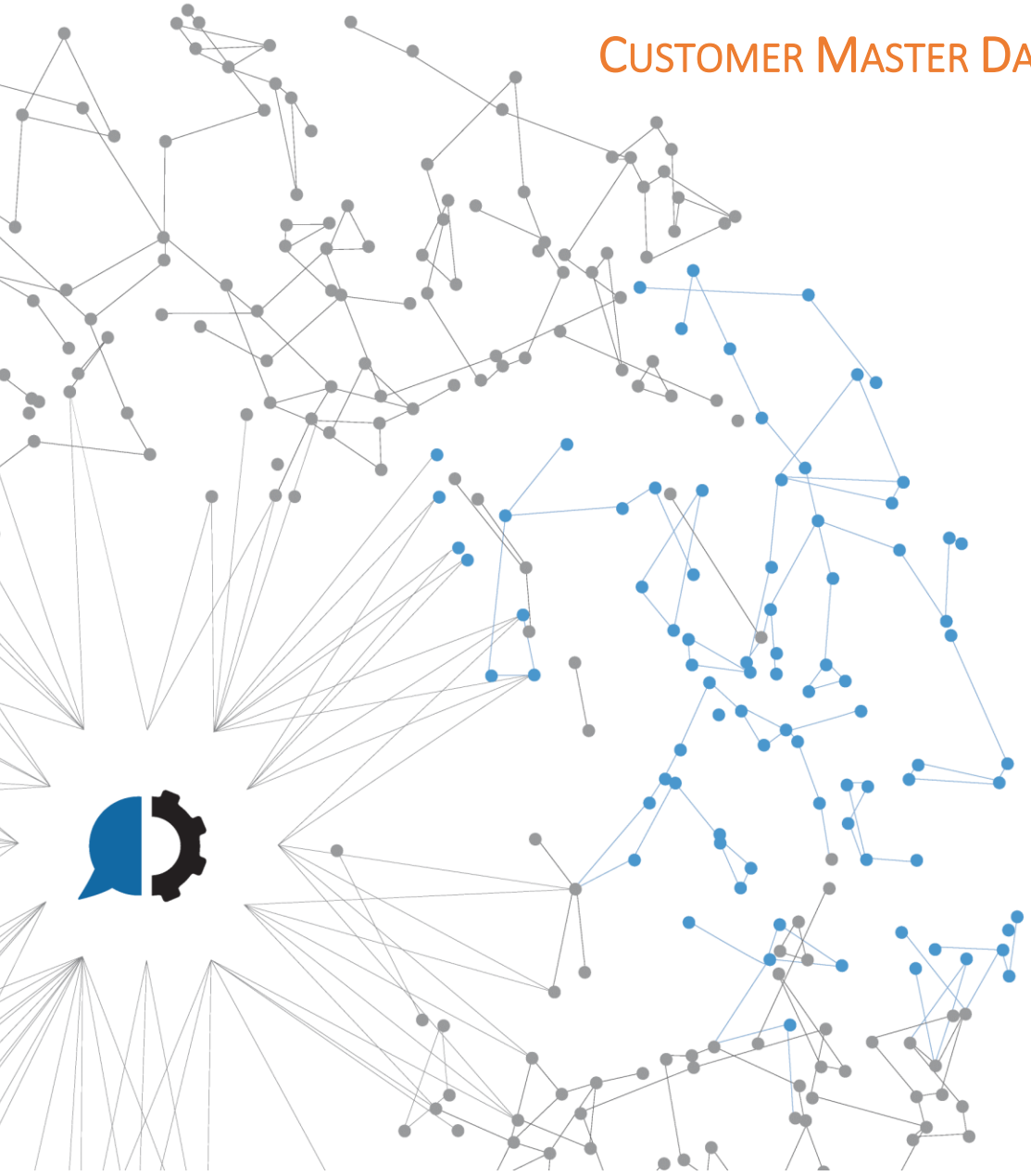
SAP BOT

CUSTOMER MASTER DATA (SD - XD01)



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Details

Document information

Author	Customer	Creation Date
Helpsystems	<<CLIENT>>	<<DATE>>

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	<<DATE>>	Dario Soria	Initial document

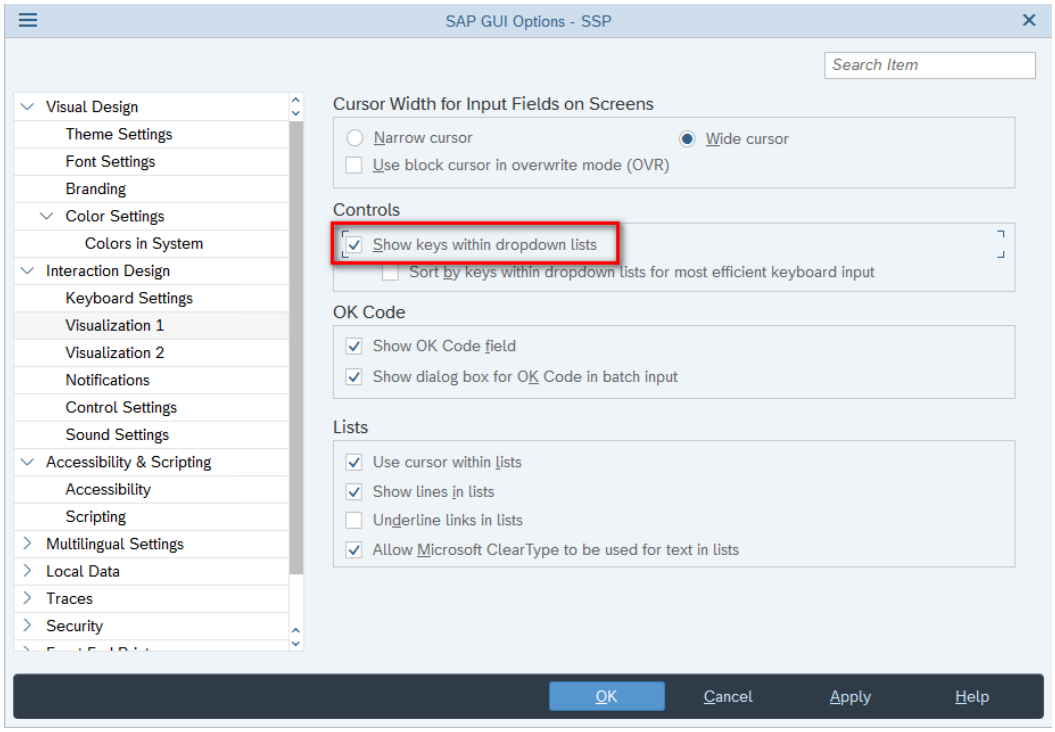
OVERVIEW

This how to guide introduces the *SAP Bot - Customer Master Data (SD - XD01)*. 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 - Customer Master Data (SD - XD01) uses an excel as the input for your customer generation. Each field corresponds to a particular field in your SAP transaction. Please, see section “HOW TO GENERATE THE INPUT FILE” for further explanation.

PREREQUISITES

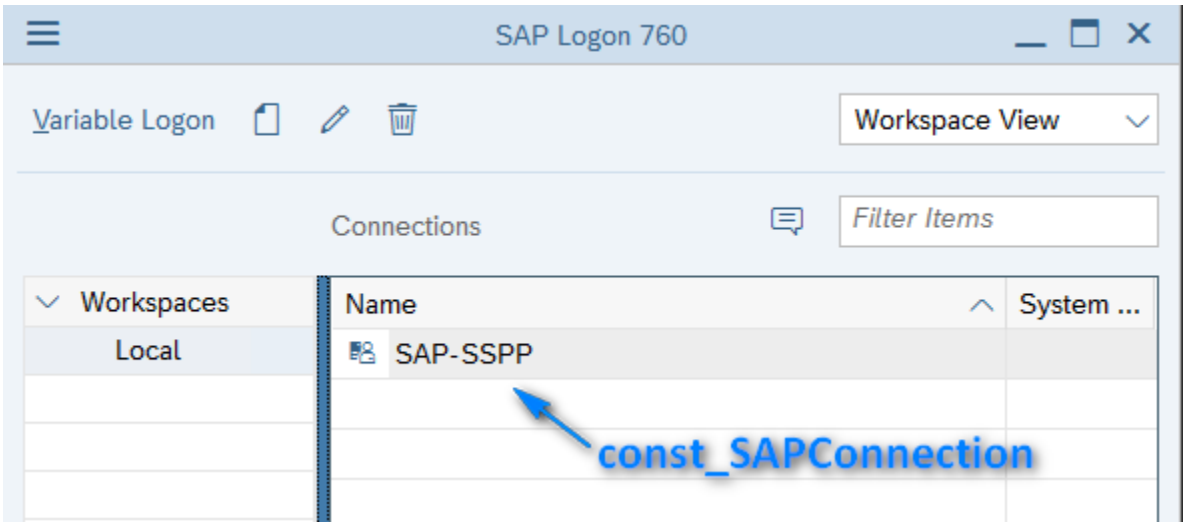
- Automate: The SAP BOT depends on Automate software in order to work. The minimal supported versions are:
    - Automate Ultimate 11.2
    - Automate Plus 11.2
    - Automate Desktop 11.2
- Automate Markup Language file (.AML): The primary file type used in Automate which contains the steps of our SAP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

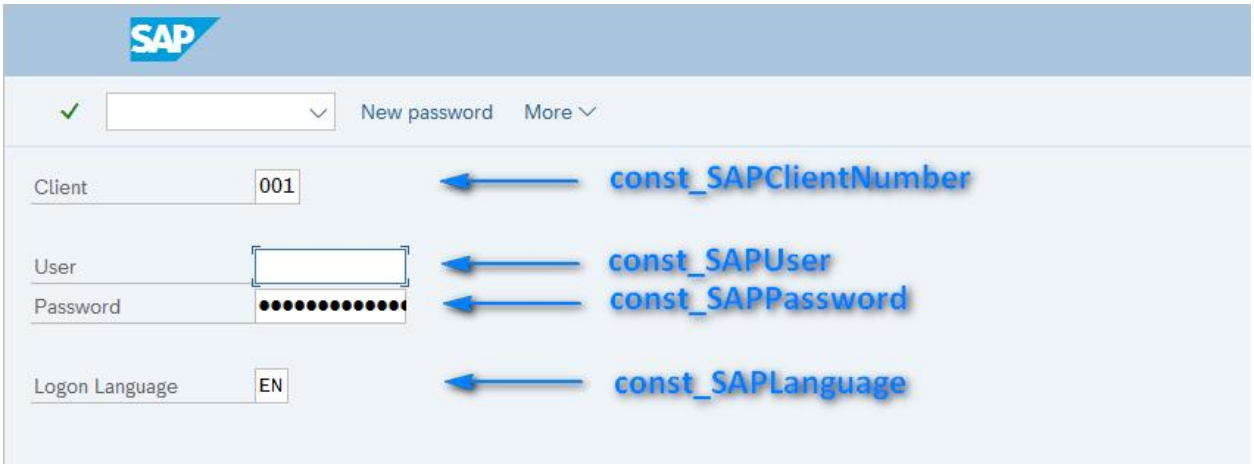


    - A user with enough privileges to run the XD01 transaction

      To check if you have the required level of authorization to run this and any transaction use SU53. Simply execute XD01 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



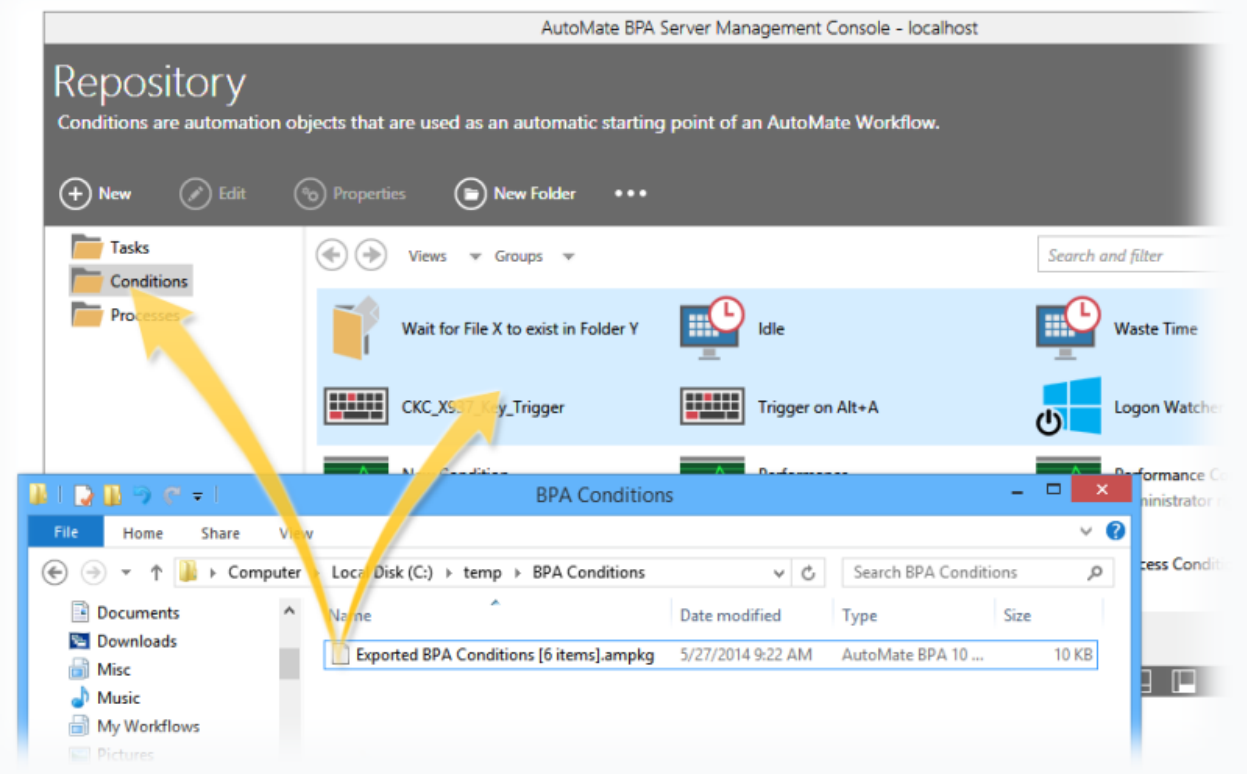


How to Import an AutoMate Task

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.

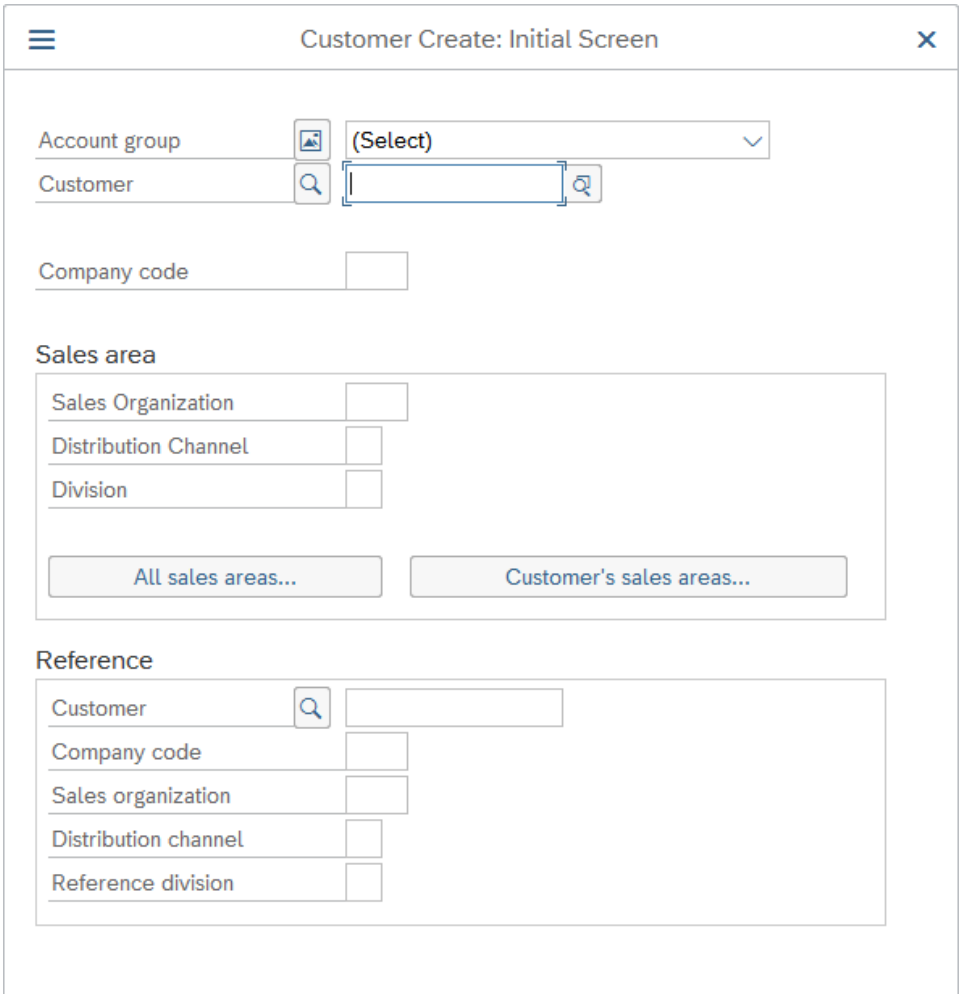


HOW TO GENERATE THE INPUT FILE

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

Initial Screen

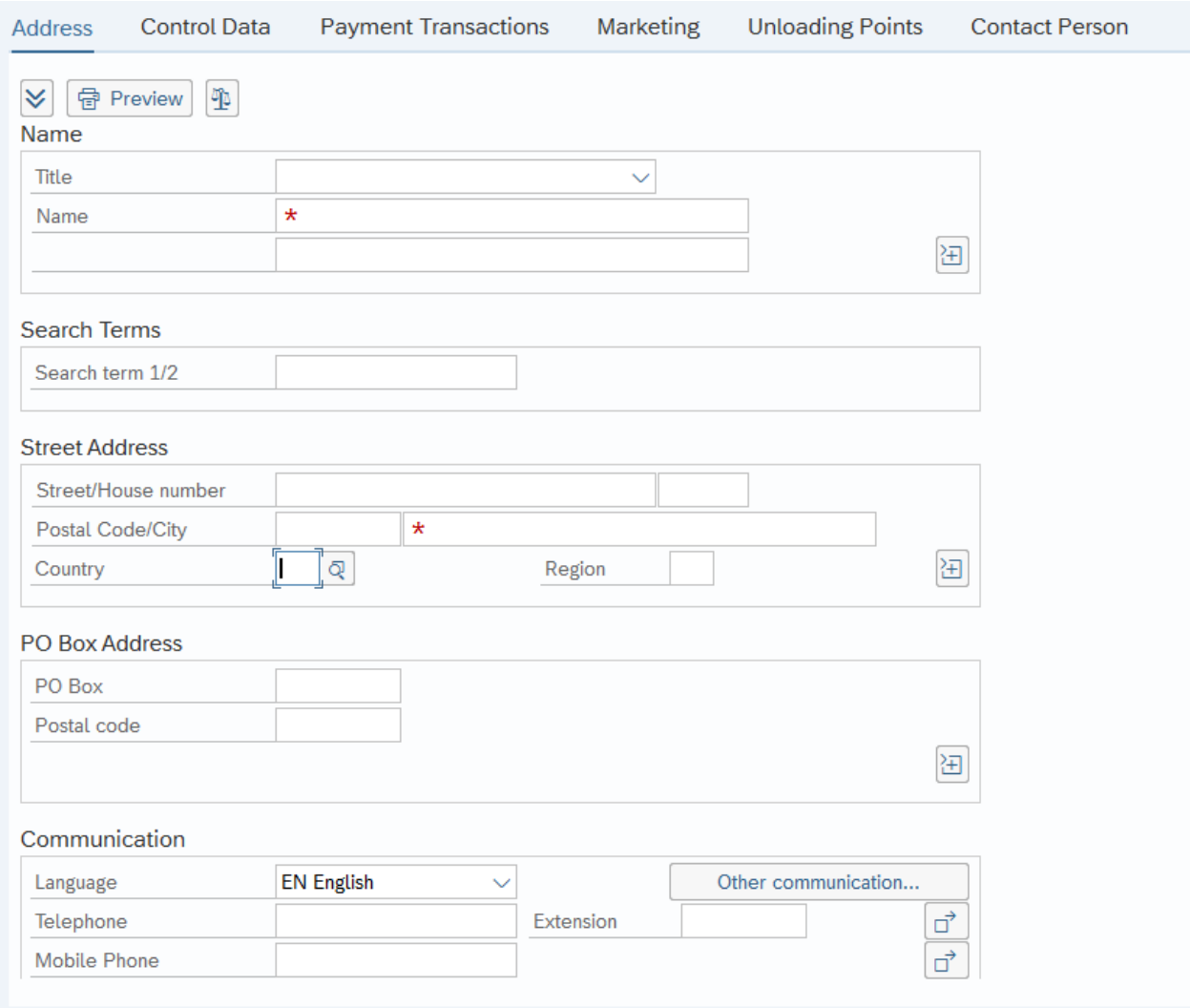


INICIALSCREEN										
Account group	Customer	Company code	Sales Organization	Distribution Channel	Division	Customer	Company code	Sales organization	Distribution channel	Reference division
RF02D-KTOKD	RF02D-KUNNR	RF02D-BUKRS	RF02D-VKORG	RF02D-VTWEG	RF02D-SPART	RF02D-REF_KUNNR	RF02D-REF_BUKRS	RF02D-REF_VKORG	RF02D-REF_VTWEG	RF02D-REF_SPART

NOTES:

- We should only use the corresponding key from the Account Group field
- Red fields are mandatory
- **EN ACCOUNT GROUP SIEMPRE TIENE QUE DECIR DEBI?**

Address



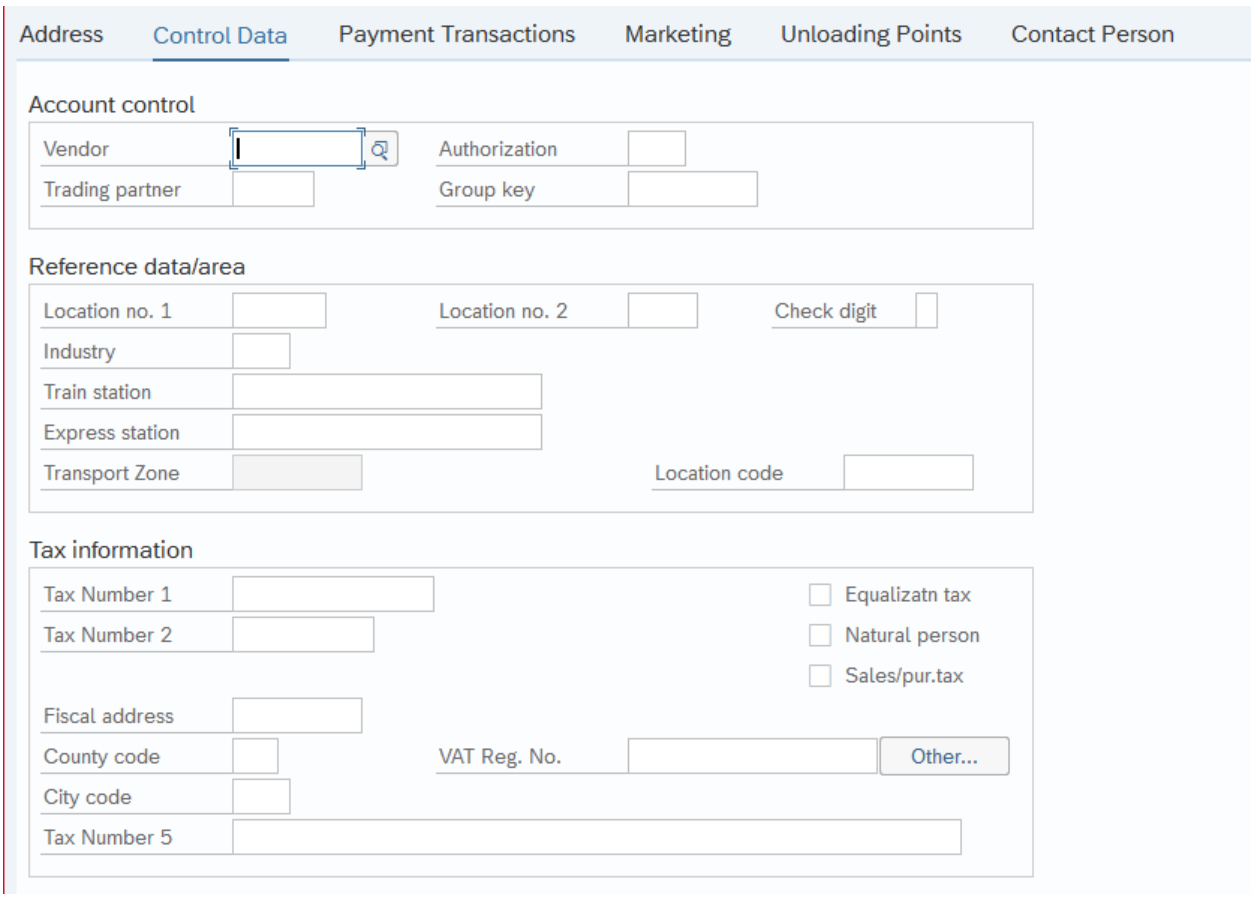
Title	Name 1	Name 2	Search term 1/2	Street	House Number	City postal code	City	Country	Region
SZA1_D0100-TITLE_MEDI	ADDR1_DATA-NAME1	ADDR1_DATA-NAME2	ADDR1_DATA-SORT1	ADDR1_DATA-STREET	ADDR1_DATA-HOUSE_NUM1	ADDR1_DATA-POST_CODE1	ADDR1_DATA-CITY1	ADDR1_DATA-COUNTRY	ADDR1_DATA-REGION

PO Box	Postal code	Language	Telephone	Extension	Mobile Phone	Fax	Extension	E-Mail
ADDR1_DATA-PO_BOX	ADDR1_DATA-POST_CODE2	ADDR1_DATA-LANGU	SZA1_D0100-TEL_NUMBER	SZA1_D0100-TEL_EXTENS	SZA1_D0100-MOB_NUMBER	SZA1_D0100-FAX_NUMBER	SZA1_D0100-FAX_EXTENS	SZA1_D0100-SMTP_ADDR

NOTES:

- Red fields are mandatory

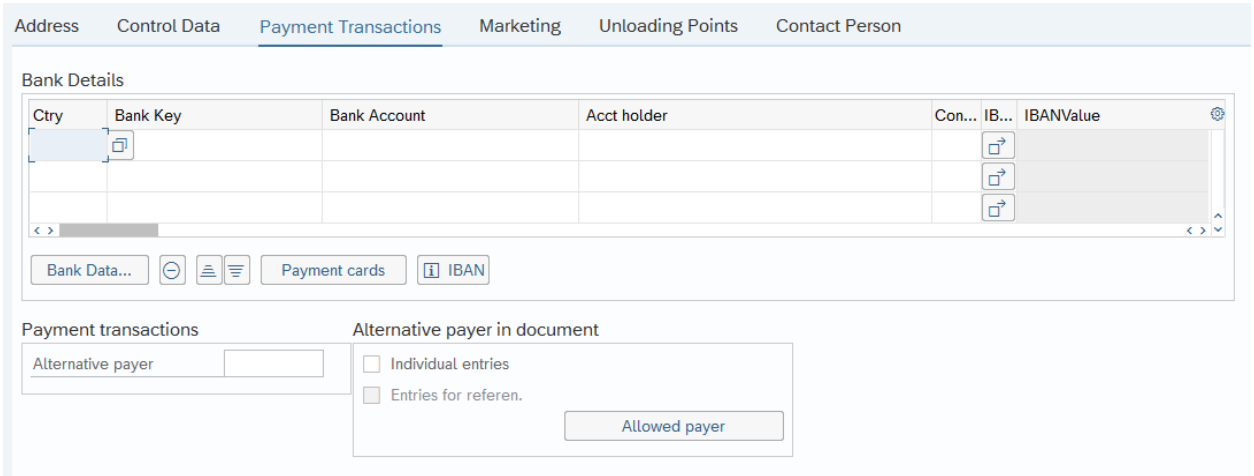
Control Data



Vendor	Authorization	Trading partner	Group key	Location no. 1	Location no. 2	Check digit	Industry	Train station	Express station	Location code
KNA1-LIFNR	KNA1-BEGRU	KNA1-VBUND	KNA1-KONZS	KNA1-BBBNR	KNA1-BBSNR	KNA1-BUBKZ	KNA1-BRSCH	KNA1-BAHNS	KNA1-BAHNE	KNA1-LOCCO

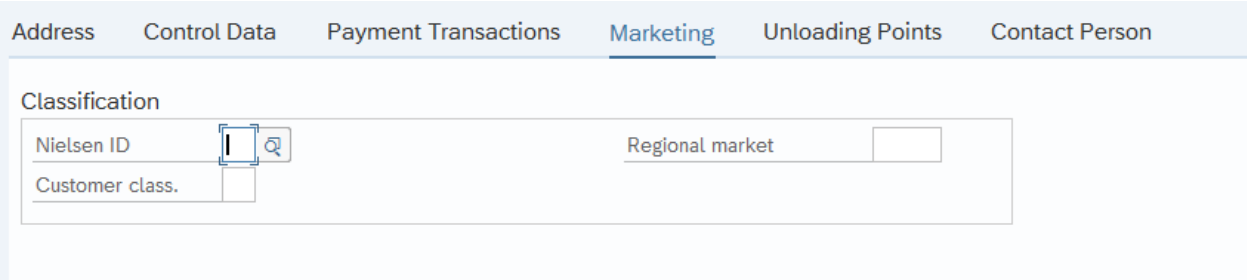
Tax Number 1	Tax Number 2	Equalizatn tax	Natural person	Sales/pur.tax	Fiscal address	County code	VAT Reg. No.	City code	Tax Number 5
KNA1-STCD1	KNA1-STCD2	KNA1-STKZA	KNA1-STKZN	KNA1-STKZU	KNA1-FISKN	KNA1-COUNC	KNA1-STCEG	KNA1-CITYC	KNA1-STCD5

Payment Transactions



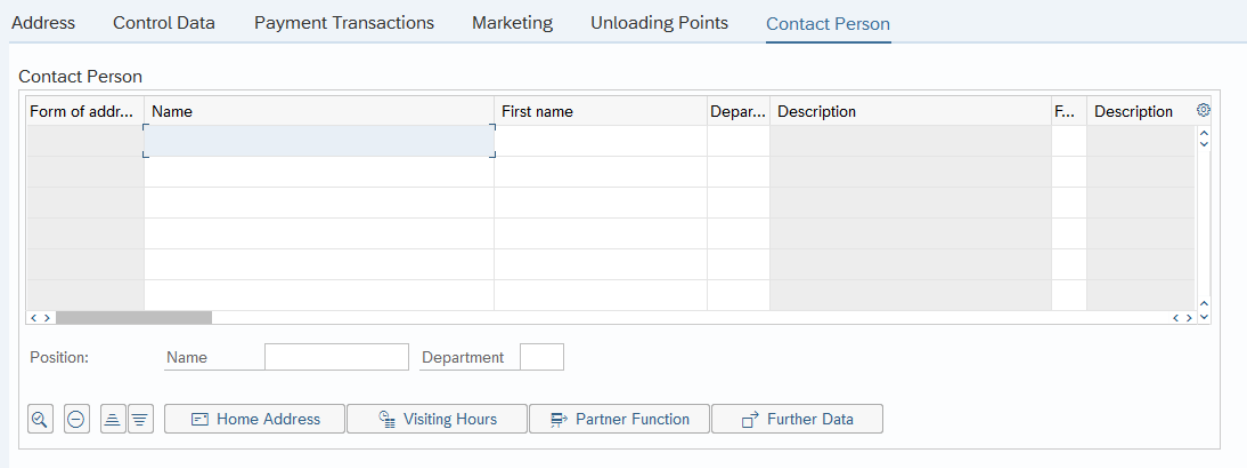
Alternative payer	Indicator: Is an alternative payer allowed in document?
KNA1-KNRZA	KNA1-XZEMP

Marketing



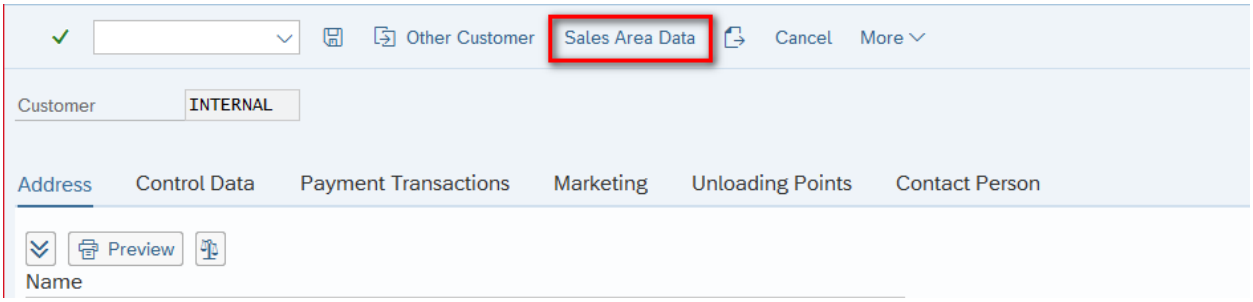
Nielsen ID	Regional market	Customer class.
KNA1-NIELS	KNA1-RPMKR	KNA1-KUKLA

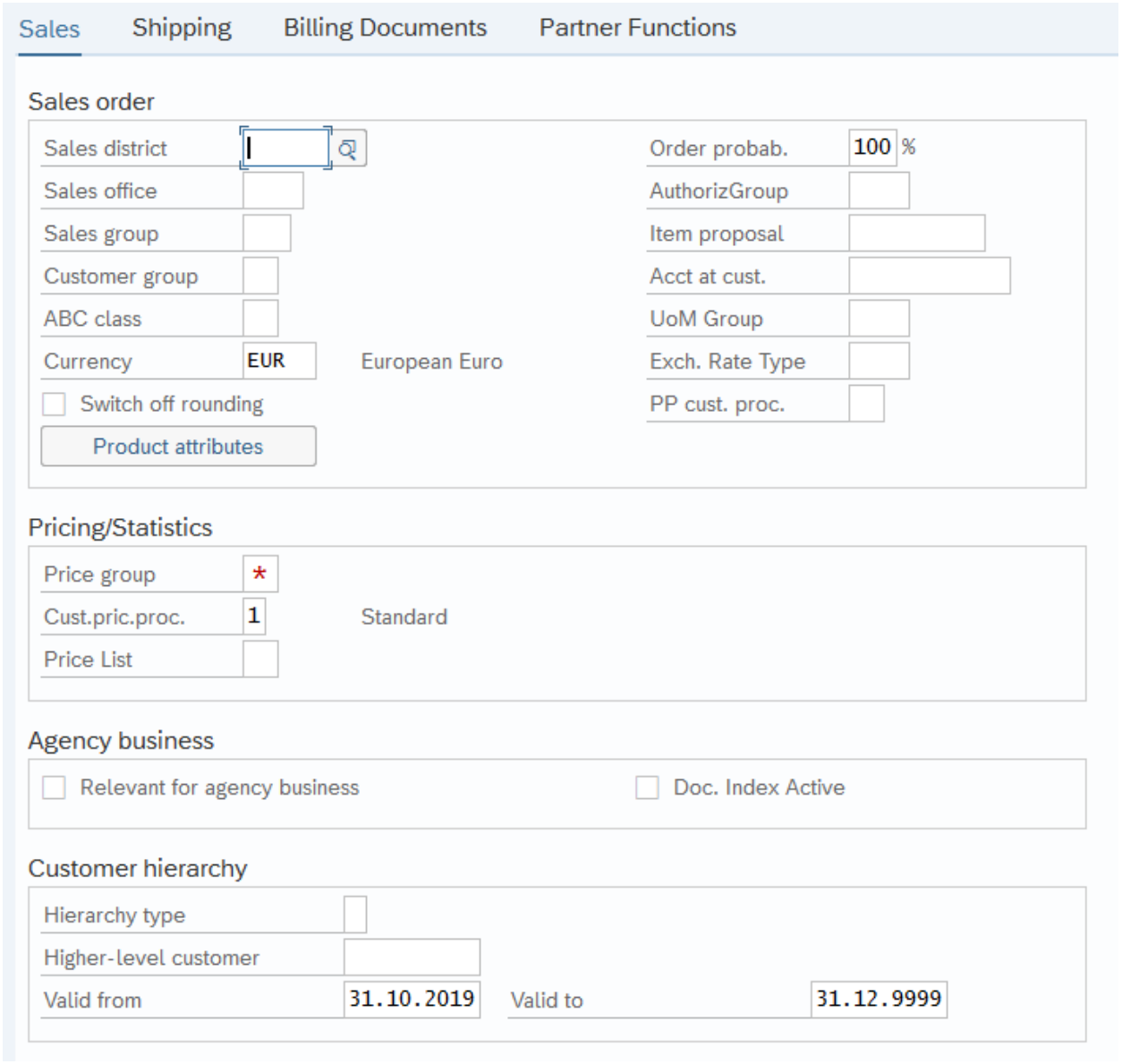
Contact Person



Name	Department
*KNVK-NAME1	*TSAB-ABTNR

Sales Area Data - Sales





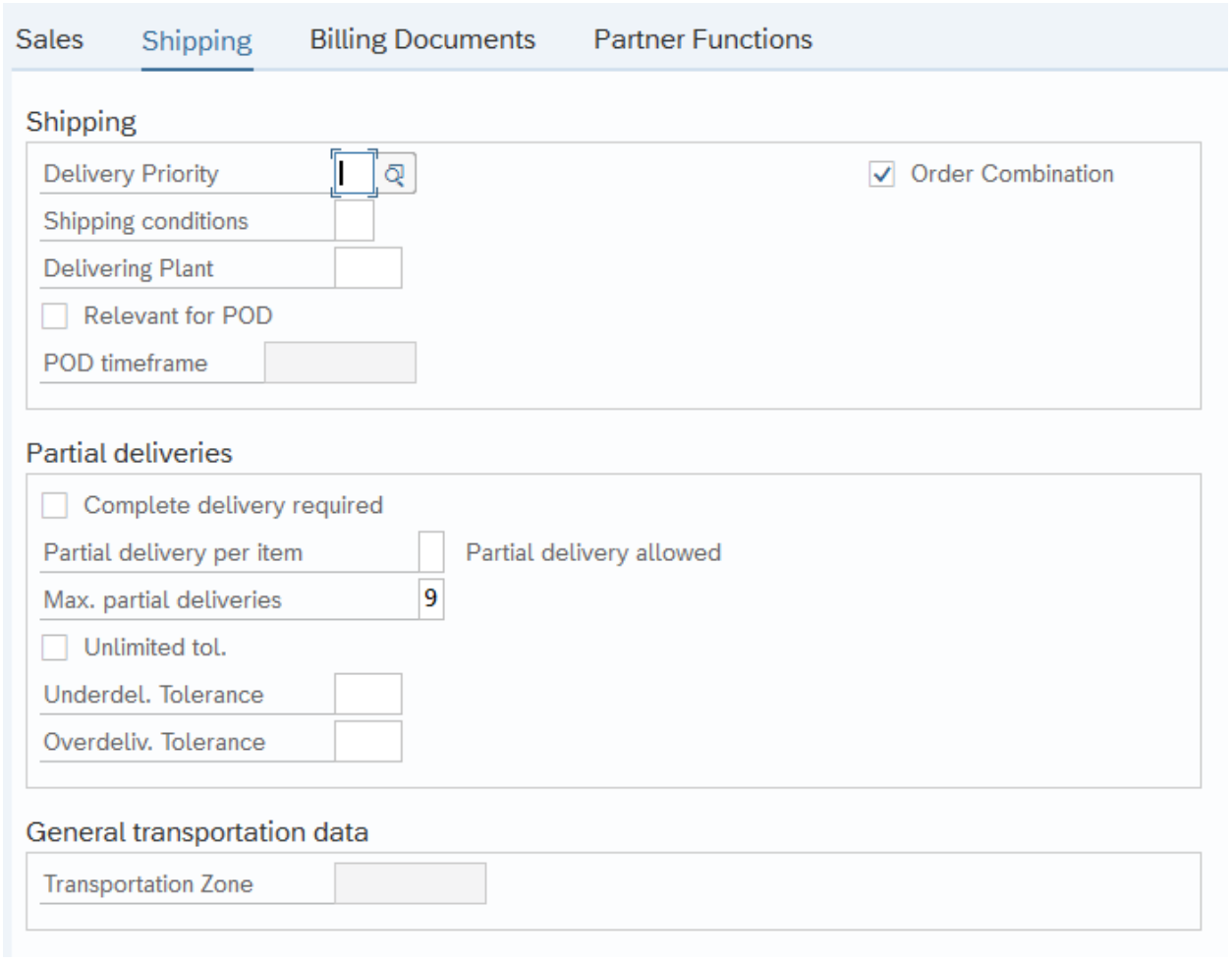
Sales district	Order probab.	Sales office	AuthorizGroup	Sales group	Item proposal	Customer group	Acct at cust.	ABC class	UoM Group	Currency	Exch. Rate Type	Switch off rounding
KNVV-BZIRK	KNVV-AWAHR	KNVV-VKBUR	KNVV-BEGRU	KNVV-VKGRP	KNVV-VSORT	KNVV-KDGRP	KNVV-EIKTO	KNVV-KLABC	KNVV-MEGRU	KNVV-WAERS	KNVV-KURST	KNVV-RDOFF

PP cust. proc.	Price group	Cust.pric.proc.	Price List	Relevant for agency business	Doc. Index Active	Hierarchy type	Higher-level customer	Valid from	Valid to
KNVV-PVKSM	KNVV-KONDA	KNVV-KALKS	KNVV-PLTYP	KNVV-AGREL	KNVV-BLIND	KNVH-HITYP	LINK_KNVH-HKUNNR	LINK_KNVH-VALID_FROM	LINK_KNVH-VALID_TO

NOTES:

- Red fields are mandatory

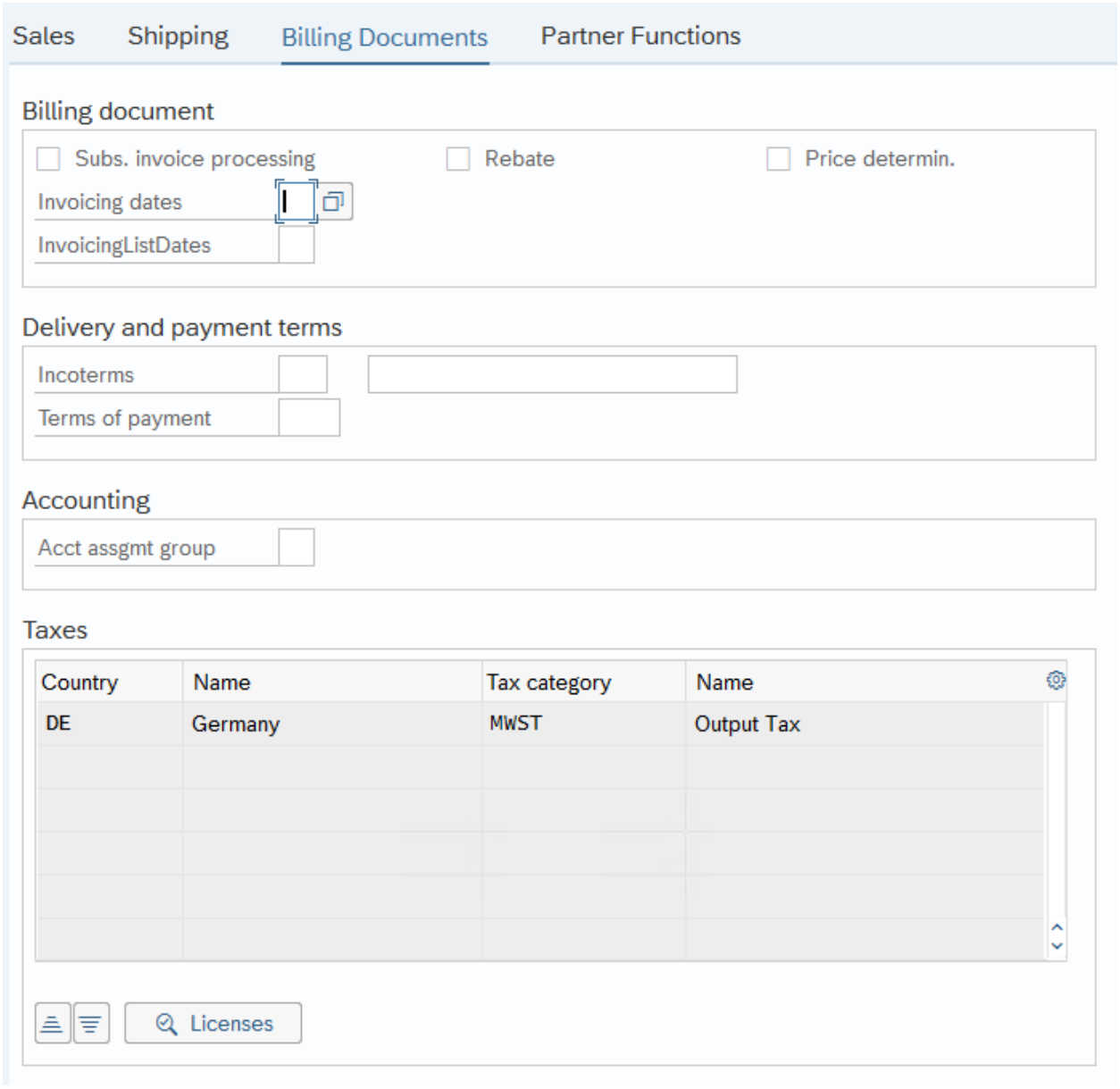
Sales Area Data - Shipping



Delivery Priority	Order Combination	Shipping conditions	Delivering Plant	Relevant for POD	Complete delivery required
KNVV-LPRIO	KNVV-KZAZU	KNVV-VSBED	KNVV-VWERK	KNVV-PODKZ	KNVV-AUTLF

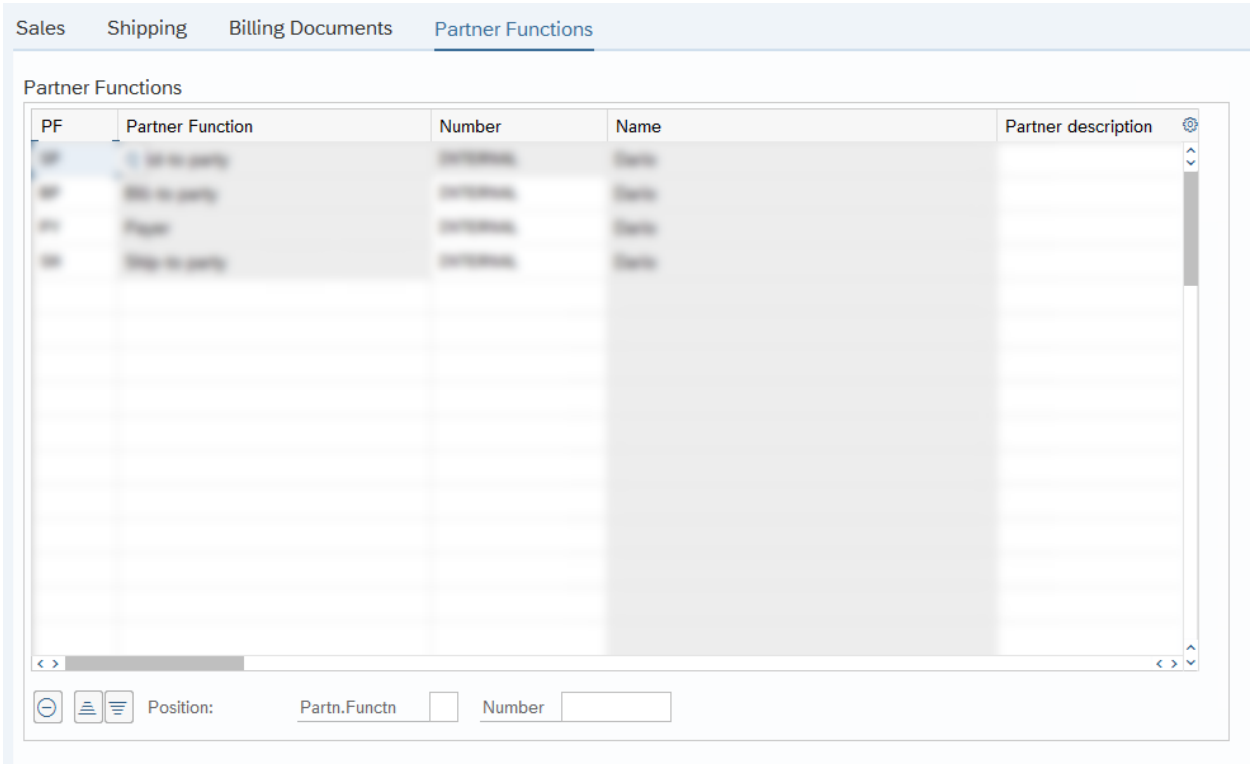
Max. partial deliveries	Unlimited tol.	Underdel. Tolerance	Overdeliv. Tolerance
KNVV-ANTLF	KNVV-UEBTK	KNVV-UNTTO	KNVV-UEBTO

Sales Area Data – Billing documents



Subs. invoice processing	Rebate	Price determin.	Invoicing dates	InvoicingListDates	Incoterms (Part 1)	Incoterms (Part 2)	Terms of payment	Acct assgmt group
KNVV-MRNKZ	KNVV-BOKRE	KNVV-PRFRE	KNVV-PERFK	KNVV-PERRL	KNVV-INCO1	KNVV-INCO2	KNVV-ZTERM	KNVV-KTGRD

Sales Area Data – Partner functions



Partn.Functn	Number
*KNVP-PARVW	*RF02D-KTONR

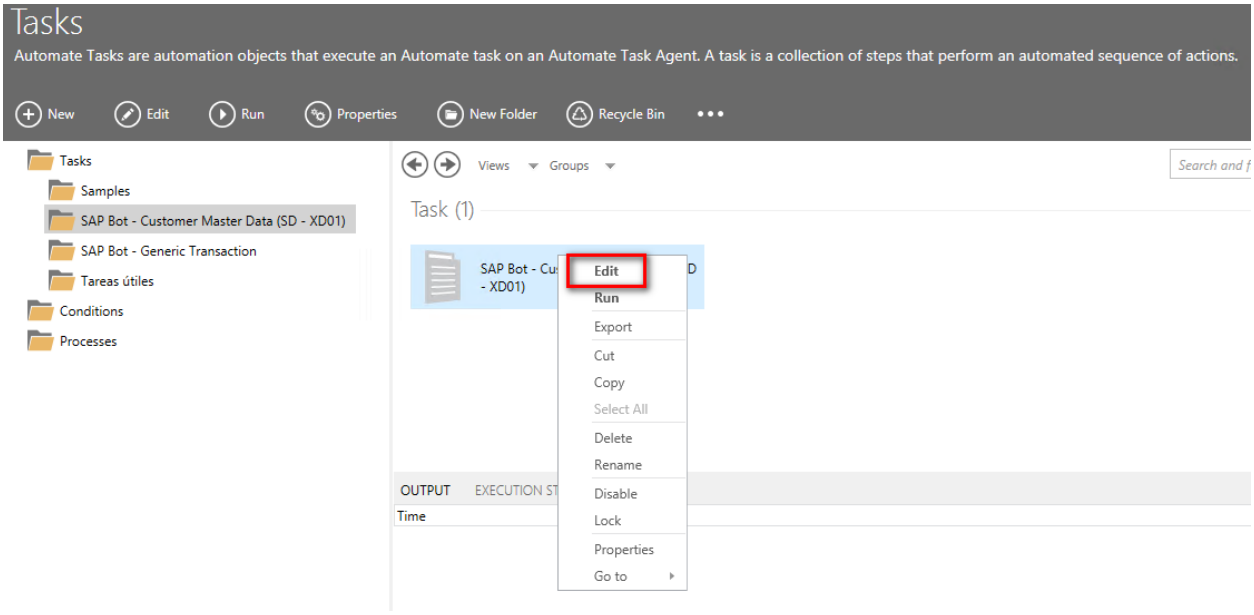
How to execute the SAP Bot - Customer Master Data (SD - XD01)

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

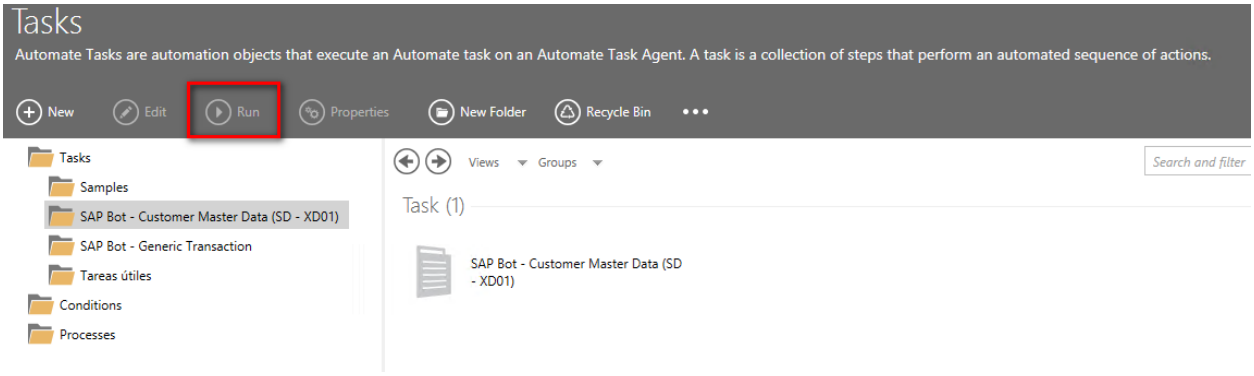
Edit the imported task by right clicking on the task and selecting edit



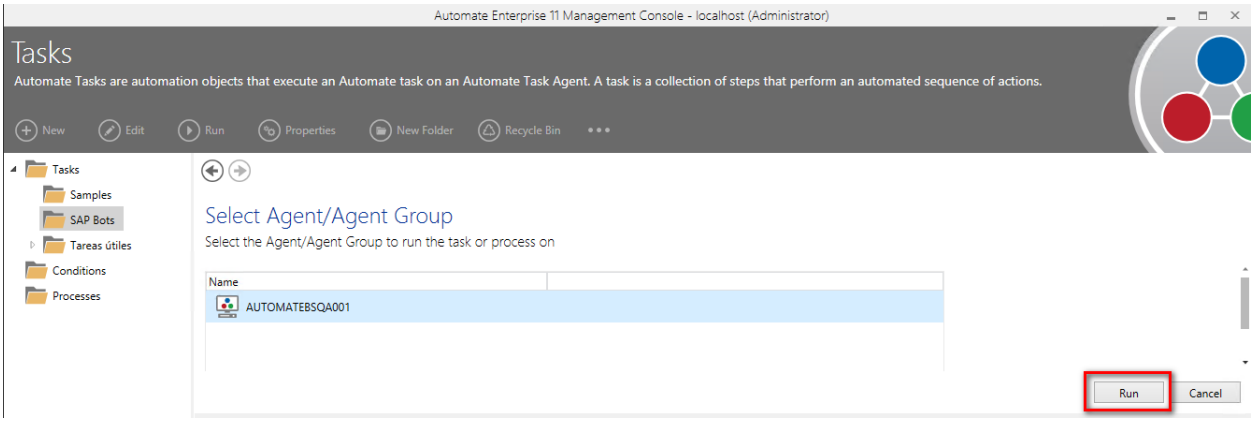
Locate step 4 and edit the variable var_ExcelInputpath with the location of your excel file

Save and close the task

Select the task and click on Run



Select your Agent and click on Run again


Automate Enterprise 11 Management Console - localhost (Administrator)
Tasks
Automate Tasks are automation objects that execute an Automate task on an Automate Task Agent. A task is a collection of steps that perform an automated sequence of actions.
New
Edit
Run
Properties
New Folder
Recycle Bin
Tasks
Samples
SAP Bots
Tareas útiles
Conditions
Processes
Select Agent/Agent Group
Select the Agent/Agent Group to run the task or process on
Name
AUTOMATEBSQA001
Run
Cancel

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:

Processed	Detail	
Yes/No	Date	Message
NO	11-4-2019 8:29:54 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:30:04 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:30:14 AM	Error: The method got an invalid argument. Field/Element: RF02D-KTOKD.
NO	11-4-2019 8:30:24 AM	Enter a postal code. Field or Last Screen: TAB02_CONTROLDATA
NO	11-4-2019 8:30:34 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:30:43 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:30:53 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:31:03 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:31:13 AM	Error: The method got an invalid argument. Field/Element: ADDR1_DATA-HOUSE_NUM1.
NO	11-4-2019 8:31:24 AM	Error: The method got an invalid argument. Field/Element: RF02D-KTOKD.
NO	11-4-2019 8:31:37 AM	Entry 2 does not exist in T188 (check entry). Field or Last Screen: TAB02_SALESAREA
YES	11-4-2019 8:31:53 AM	Success
NO	11-4-2019 8:32:04 AM	Error: The control could not be found by id. Field/Element: TAB03_PAYMENTTRANSACTIONS.

  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 - Customer Master Data (SD - XD01)*

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