



# How to send billing document **through EDI** or **IDOC**



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## Topics covered:

- 1) What is EDI
- 2) Create a logical system
- 3) Assign the logical system to the client
- 4) Create the RFC destination with the external system information and login credential
- 5) Create RFC port
- 6) Configuration of output determination
- 7) Define Partner profile
- 8) Business process

## Introduction:

In order to cash process we have different documents that we have to exchange with our customer among them there is the billing document it comes after the shipment of the product to the customer thanks to this document the customer can make the payment now the question that may come from our mind is that by what means we can send the billing document to our customer?

Of course, in SAP there are different ways to send the billing document to the customer, but one that is commonly used in the project is: EDI (Electronic Data Interchange).

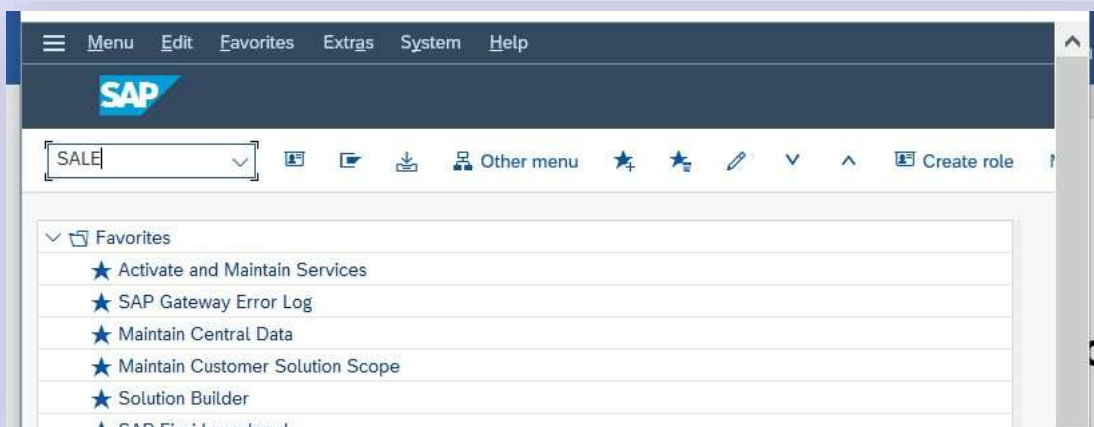
And that is exactly what we are going to see today, how to send the billing document by EDI in SAP S/4HANA.

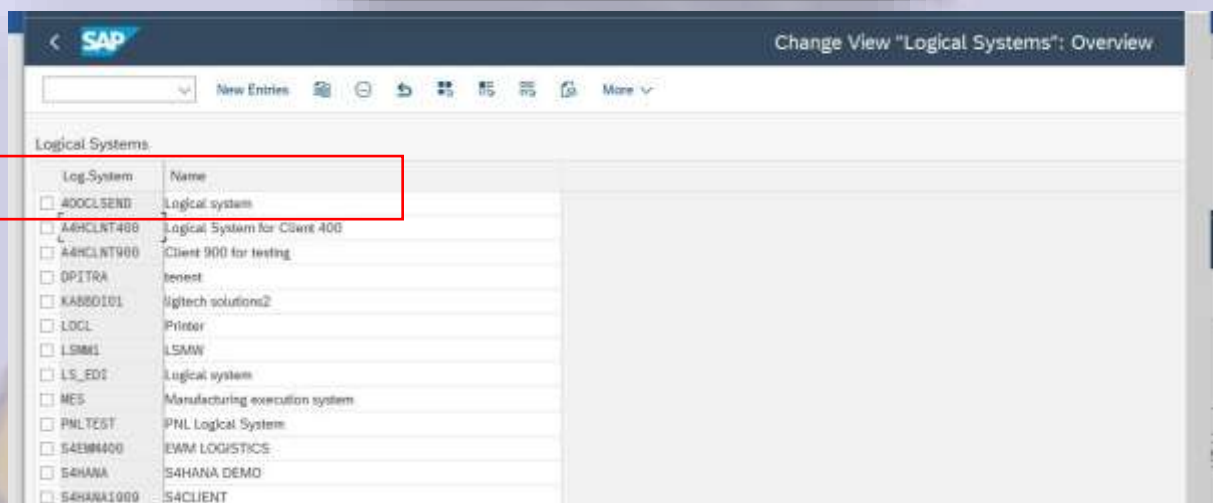
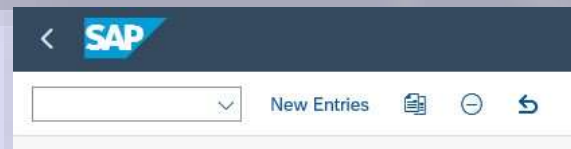
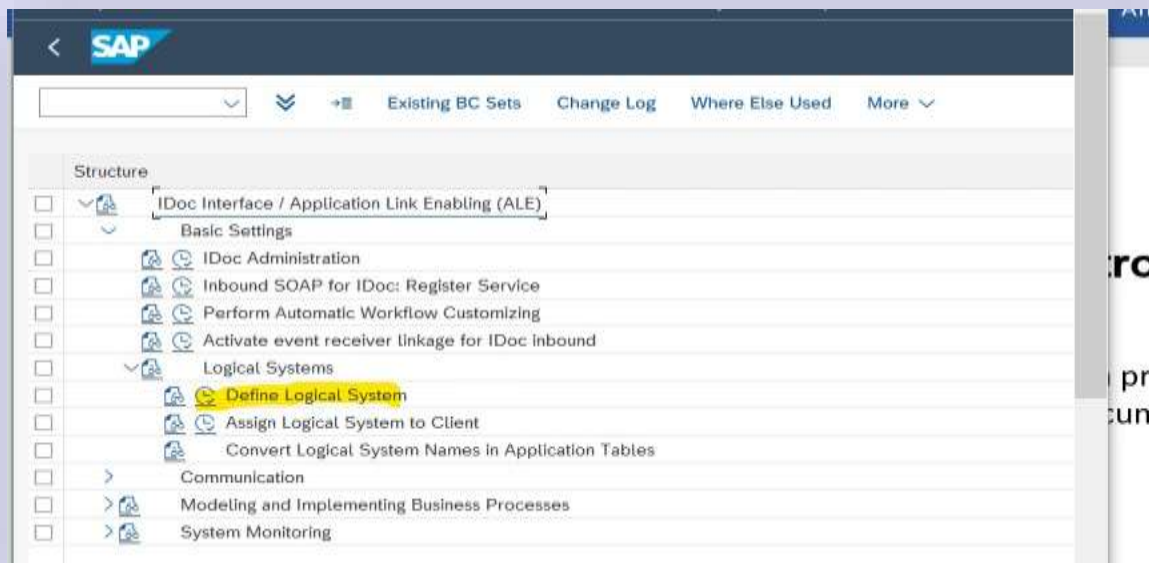
### 1) What is EDI

EDI means Electronic Data Interchange in SAP, EDI makes it possible to exchange business application documents with an external partner's system instead of printing them on paper.

### 2) Create a logical system

Tcode : SALE





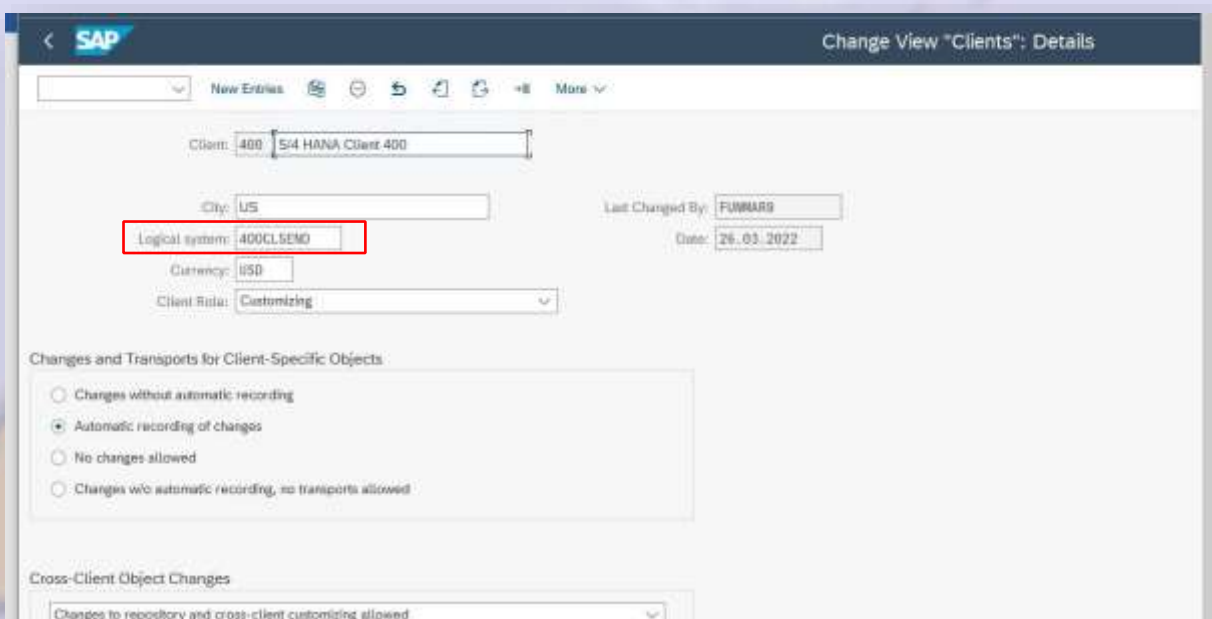
### 3) Assign the logical system to the client

Select the client and press display



The screenshot shows the SAP Client list interface. A search icon in the top toolbar is highlighted with a red box. Below it, a table lists several clients. The client with ID 400 is selected, and its row is highlighted with a red border.

Client	Role	Crcy	Name	City	Cl
<input type="checkbox"/> 000	SAP reference	EUR	Pankaj	Walldorf	07
<input type="checkbox"/> 100	Customizing	INR	Demo client US & DE	Chennai	10
<input type="checkbox"/> 200	Production	INR	S4HANA EWM	Walldorf	14
<input checked="" type="checkbox"/> 400	Customizing	USD	S/4 HANA Client 400	US	22
<input type="checkbox"/> 500	Customizing	USD	EWMClient400	Mumbai	06



The screenshot shows the 'Change View "Clients": Details' screen for Client 400. The 'Logical system' field is highlighted with a red box. Below the main form, there are sections for 'Changes and Transports for Client-Specific Objects' and 'Cross-Client Object Changes'.

Client: 400 | S/4 HANA Client 400

City: US

Logical system: 400CLSEMO

Currency: USD

Client Role: Customizing

List Changed By: FUMMARG

Date: 26.03.2022

Changes and Transports for Client-Specific Objects:

- Changes without automatic recording
- Automatic recording of changes
- No changes allowed
- Changes w/o automatic recording, no transports allowed

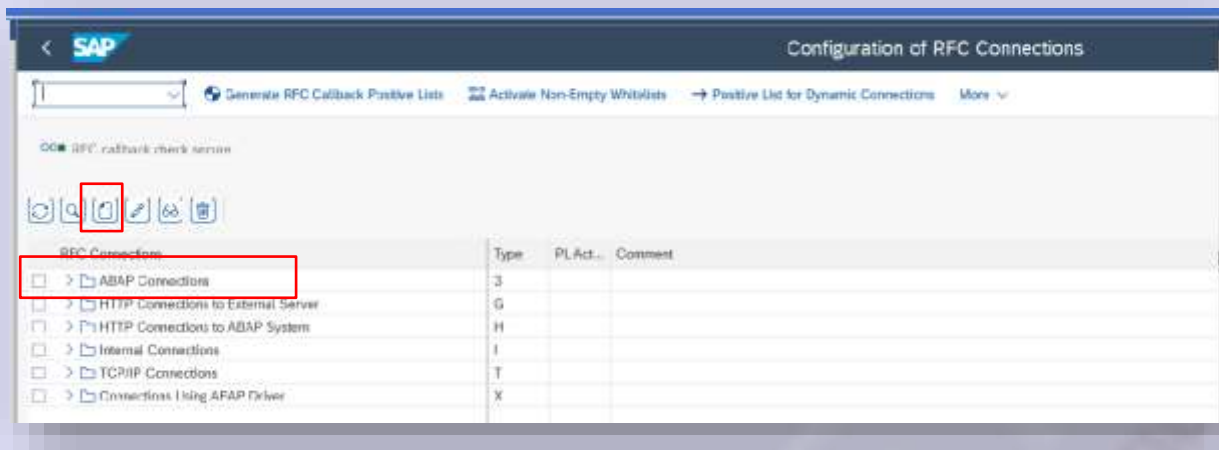
Cross-Client Object Changes:

Changes to repository and cross-client customizing allowed

3) Create the RFC destination with the external system information and login credential

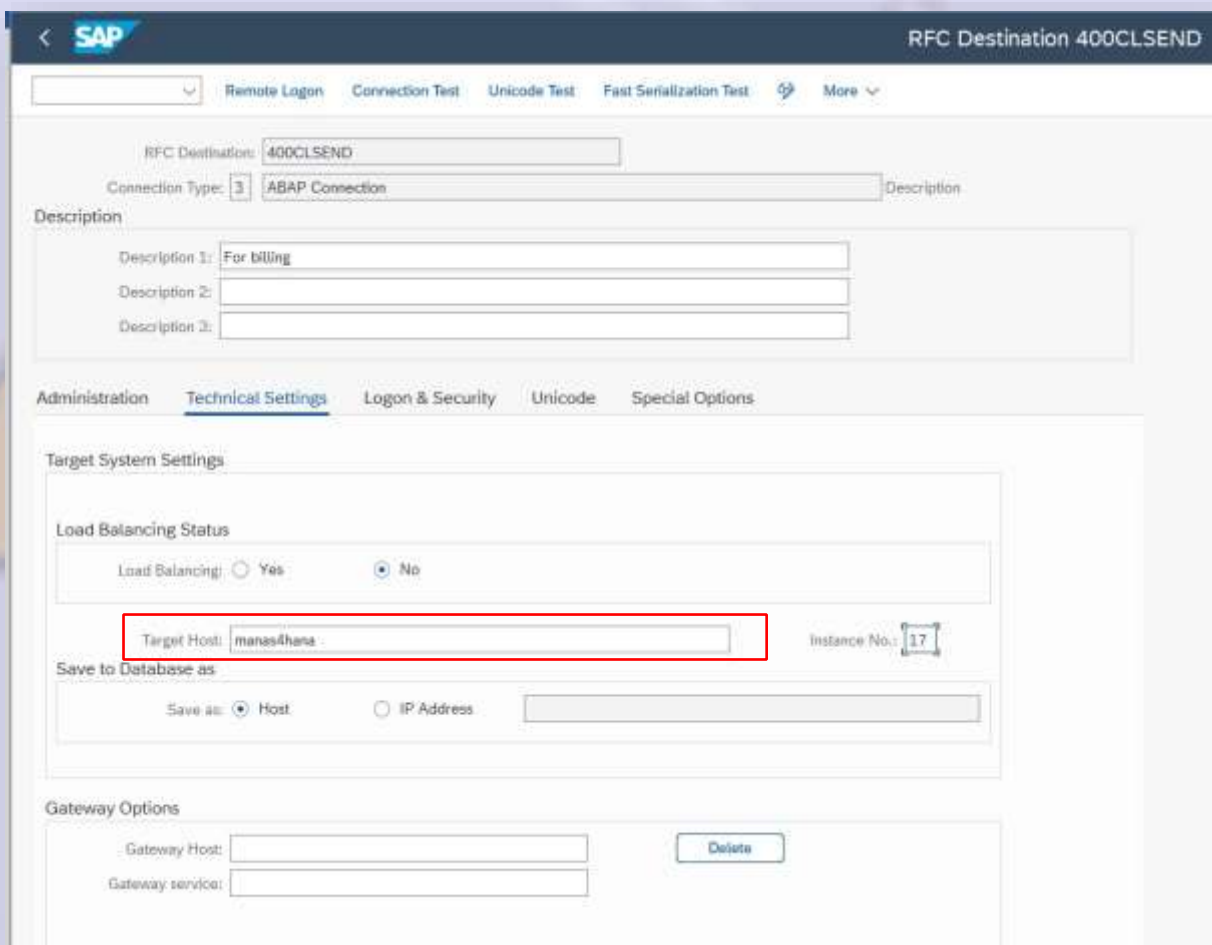
T-code: SM59

Select ABAP connections and click on create button



In the Target Host put the IP address of the receiver system

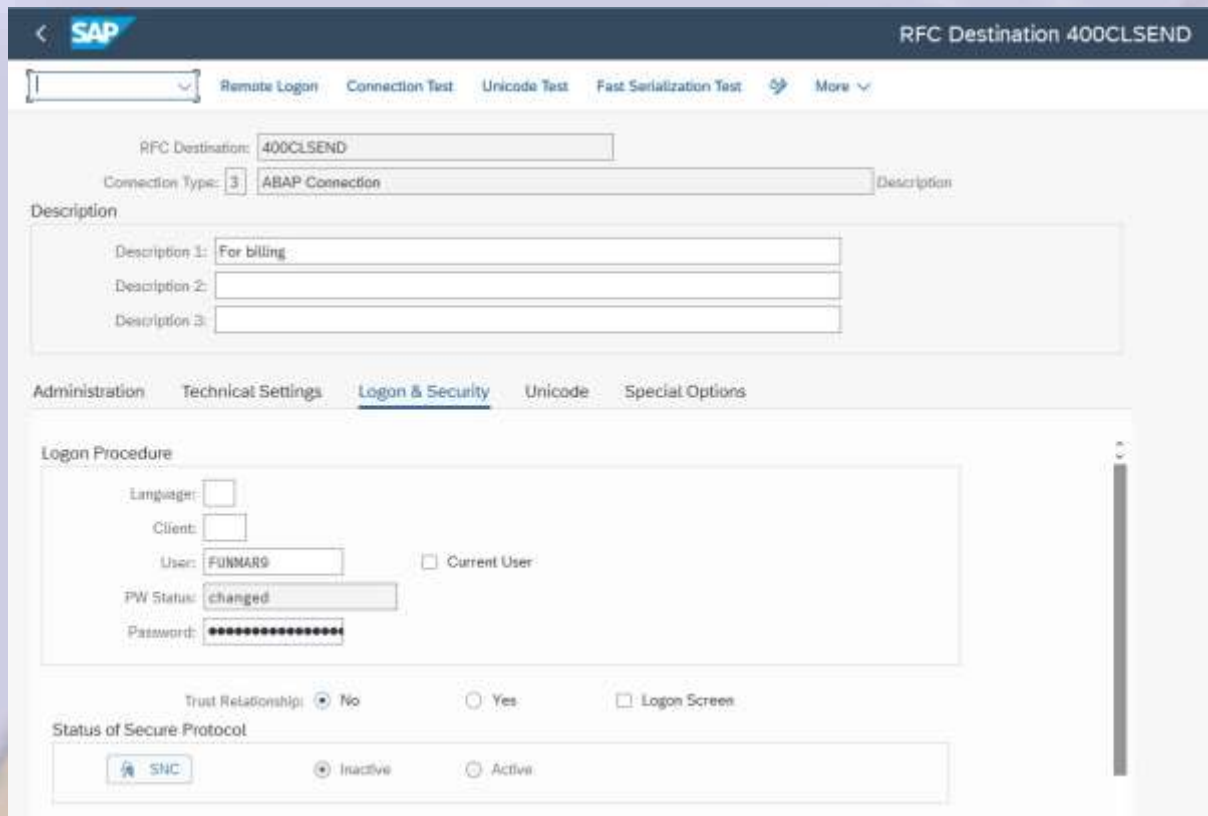
But for the test purpose I will use the ip address of my own system but in real time scenario you should maintain the IP address of the customer's system



After click on logon and security tab

Here maintain the user id of the customer and password

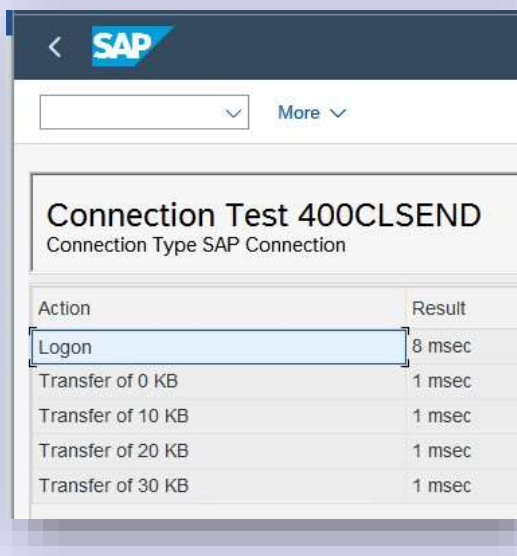
Click save button



The screenshot shows the SAP configuration interface for an RFC Destination named '400CLSEND'. The 'Logon & Security' tab is active, displaying the following configuration details:

- RF Destination:** 400CLSEND
- Connection Type:** 3 ABAP Connection
- Description:** For billing
- Logon Procedure:**
  - Language:
  - Client:
  - User: FUNMARS  Current User
  - PW Status: changed
  - Password:
- Trust Relationship:**  No  Yes  Logon Screen
- Status of Secure Protocol:**  Inactive  Active

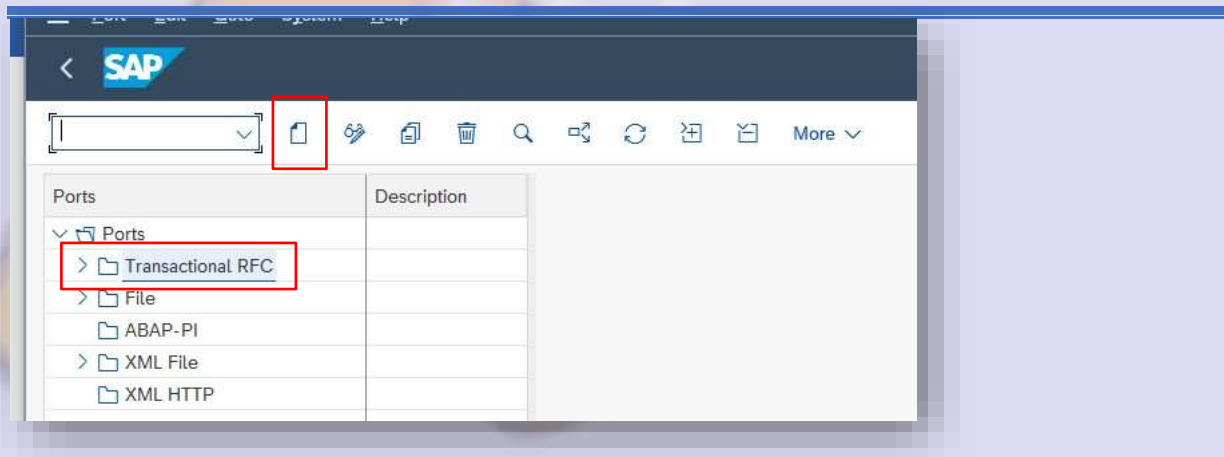
After click on connection test



#### 4) Create RFC port

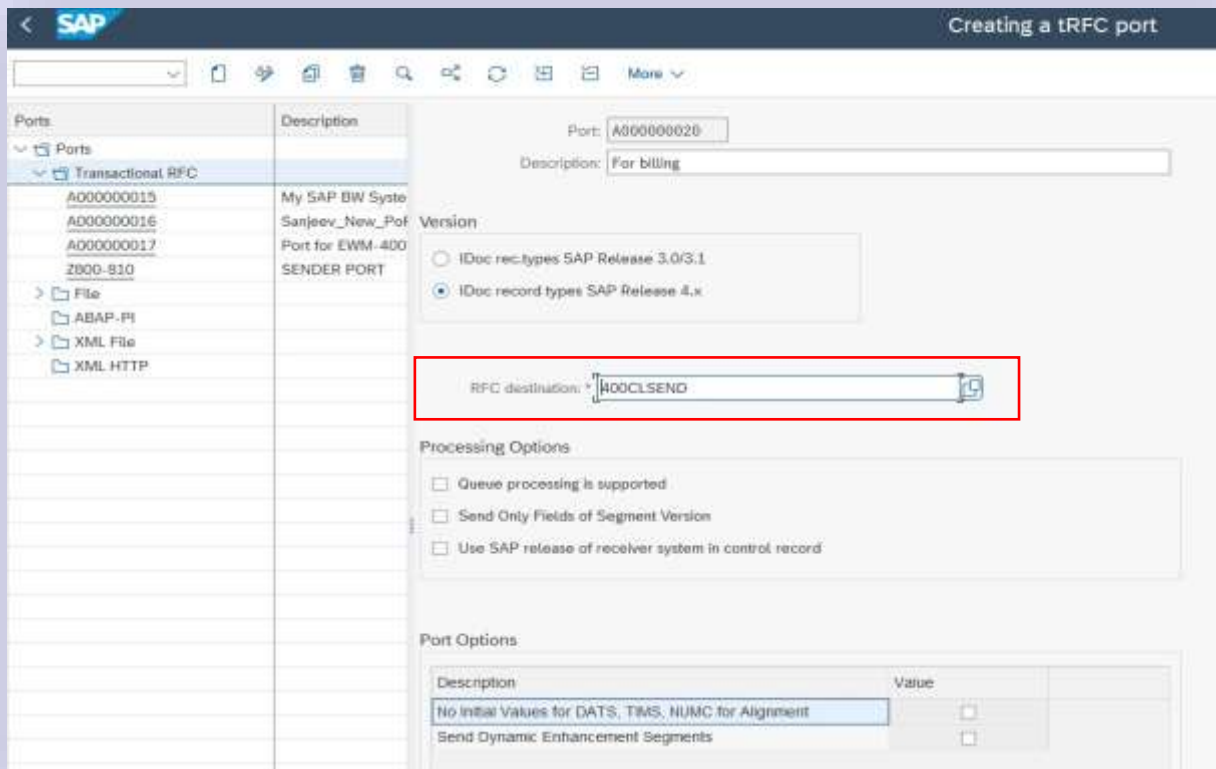
T-code : WE21

Select transactional RFC and click to create button



Fill in the description and assign the RFC destination we created earlier.





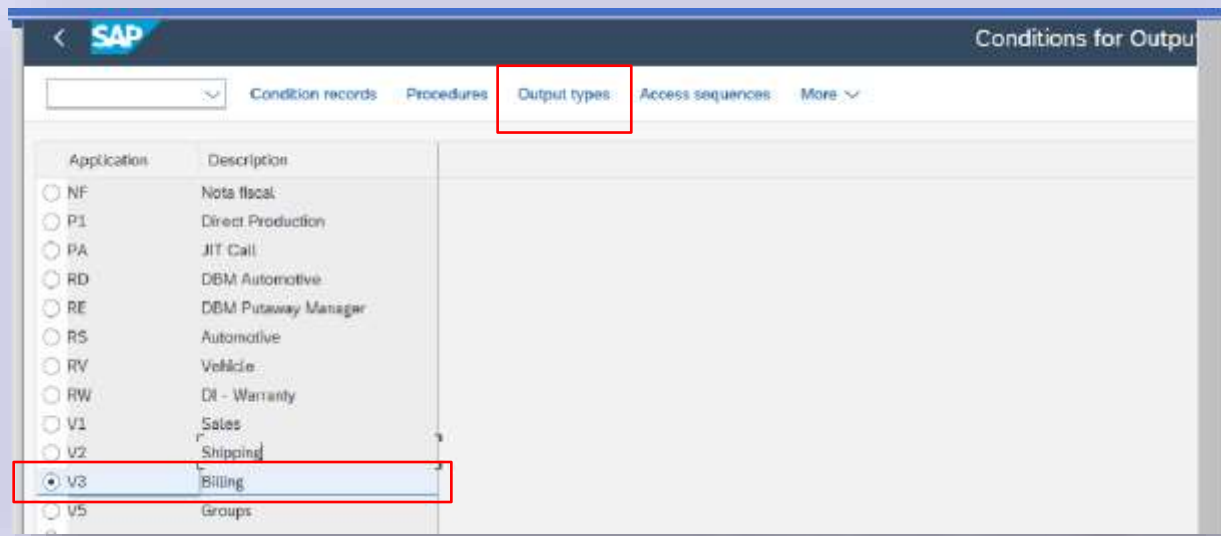
Our port is : A000000020

### 5) Configuration of output determination

Output determination is the process to determine the “media” such as printouts, telexes, faxes, e-mails, or EDI that are sent from one business to any of its business partners.

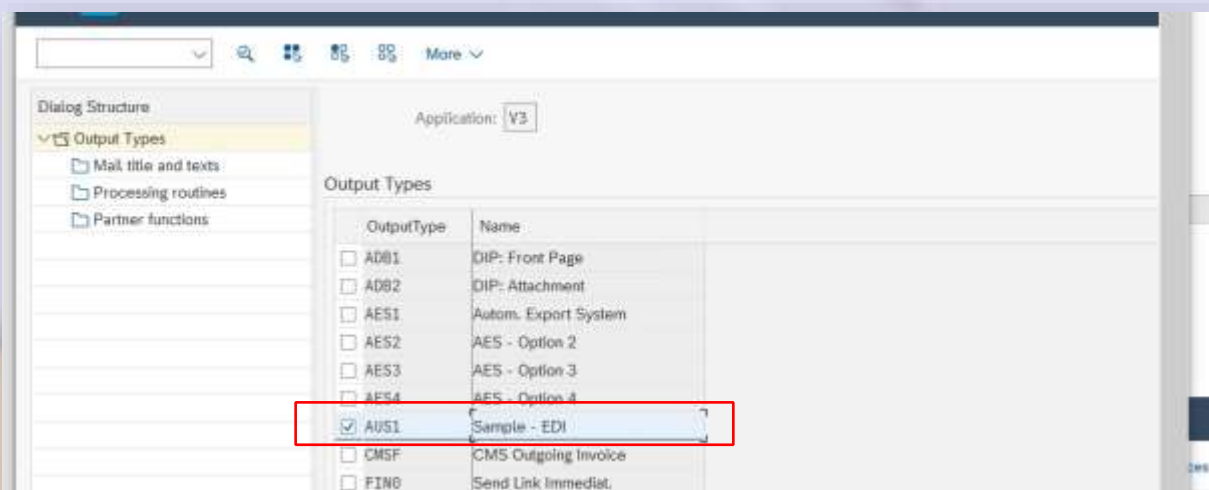
Go to Tcode: NACE

Select Application as: V3 and press output Types.



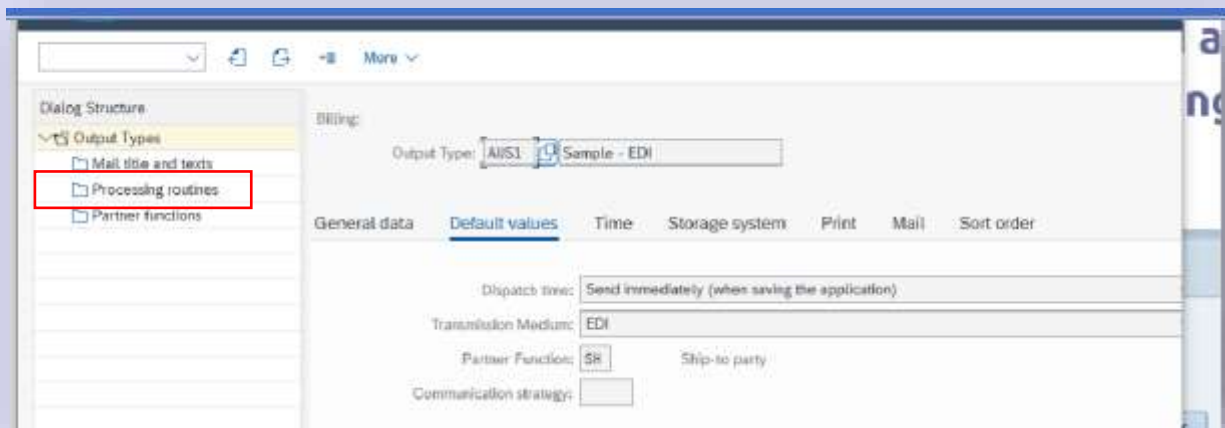
We will use the standard EDI output type – AUS1

Double click on the output type AUS1

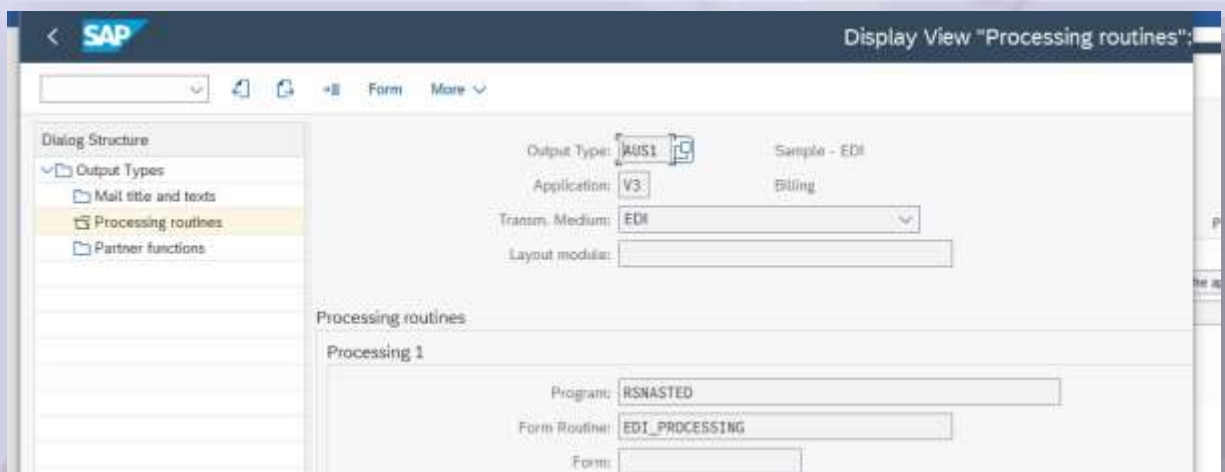


The transmission medium is EDI and partner function is SH- Ship to party

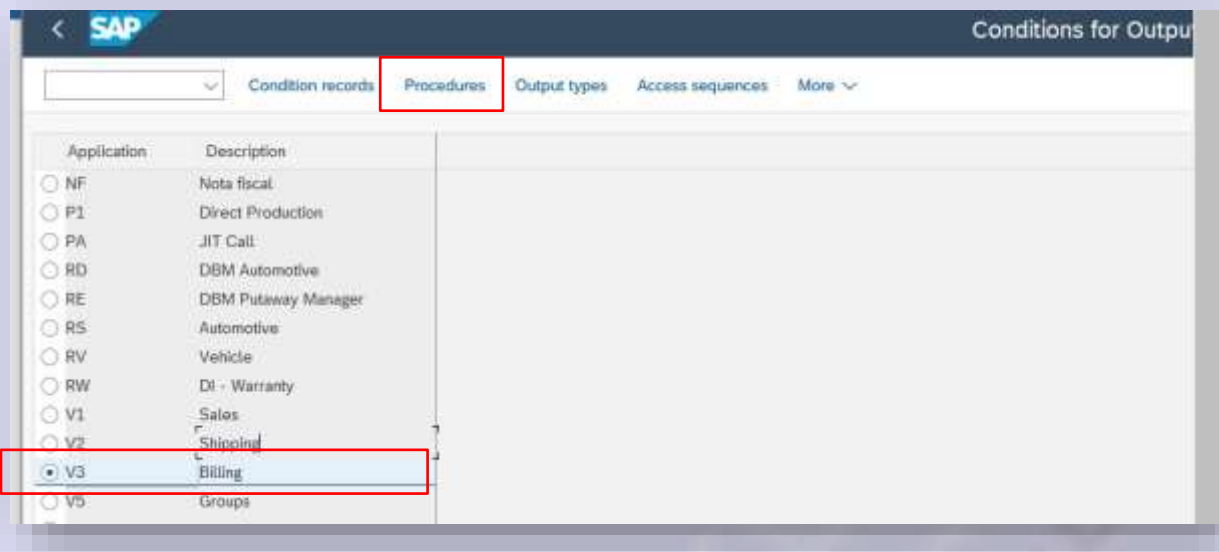
Select processing routines



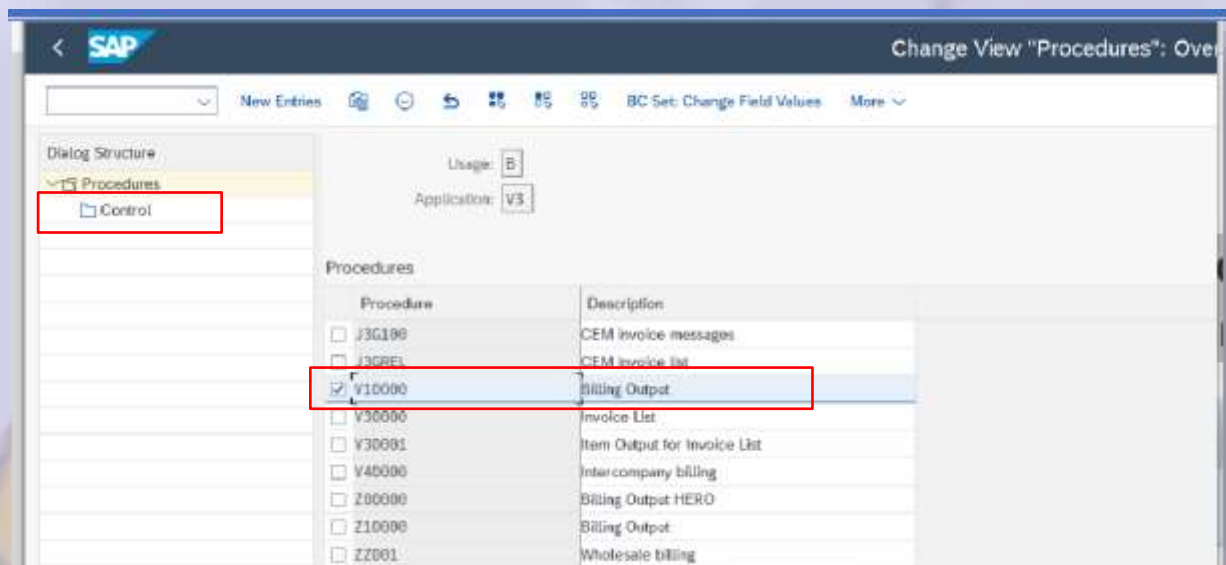
So far we don't need to customise anything, we just use the standard tool provided by SAP through the program - RSNASTED, and our customer will receive the invoice document via EDI.



Go back to Tcode: NACE select application V3 and choose procedures

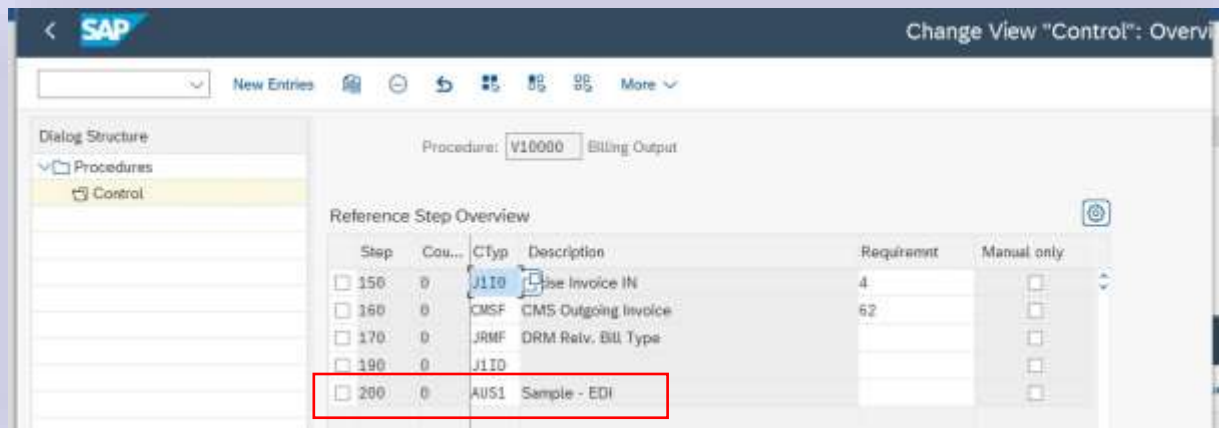


Choose the procedure V10000 and press control button



Remember we already manage the standard EDI output type – AUS1

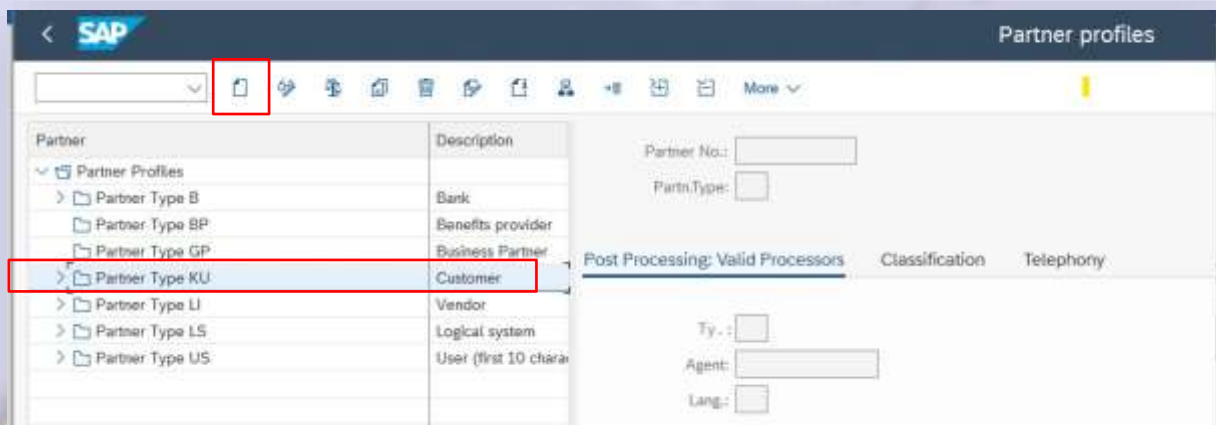
Just add it here and save



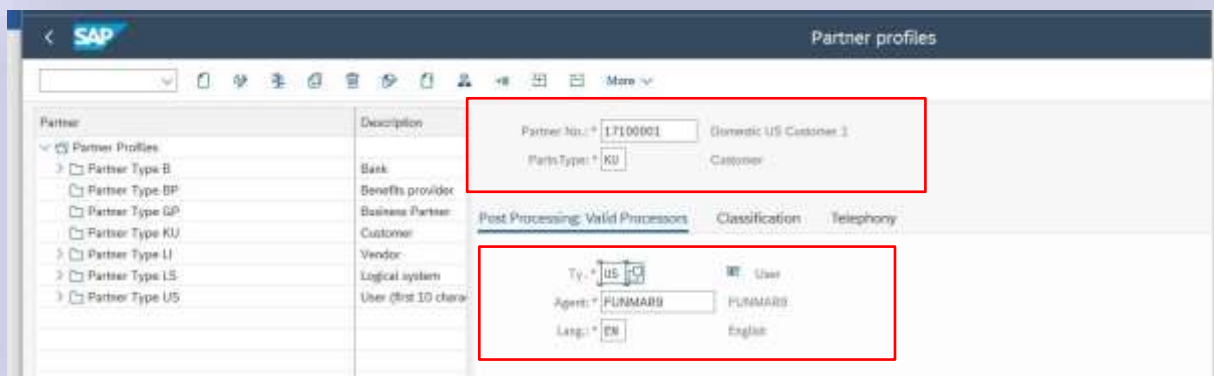
## 7) Define Partner Profile

T-code: WE20

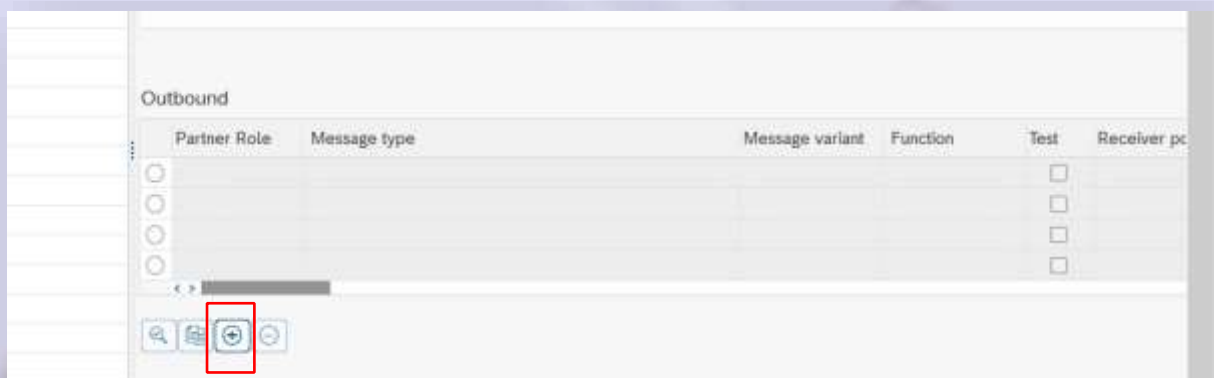
Choose Create.



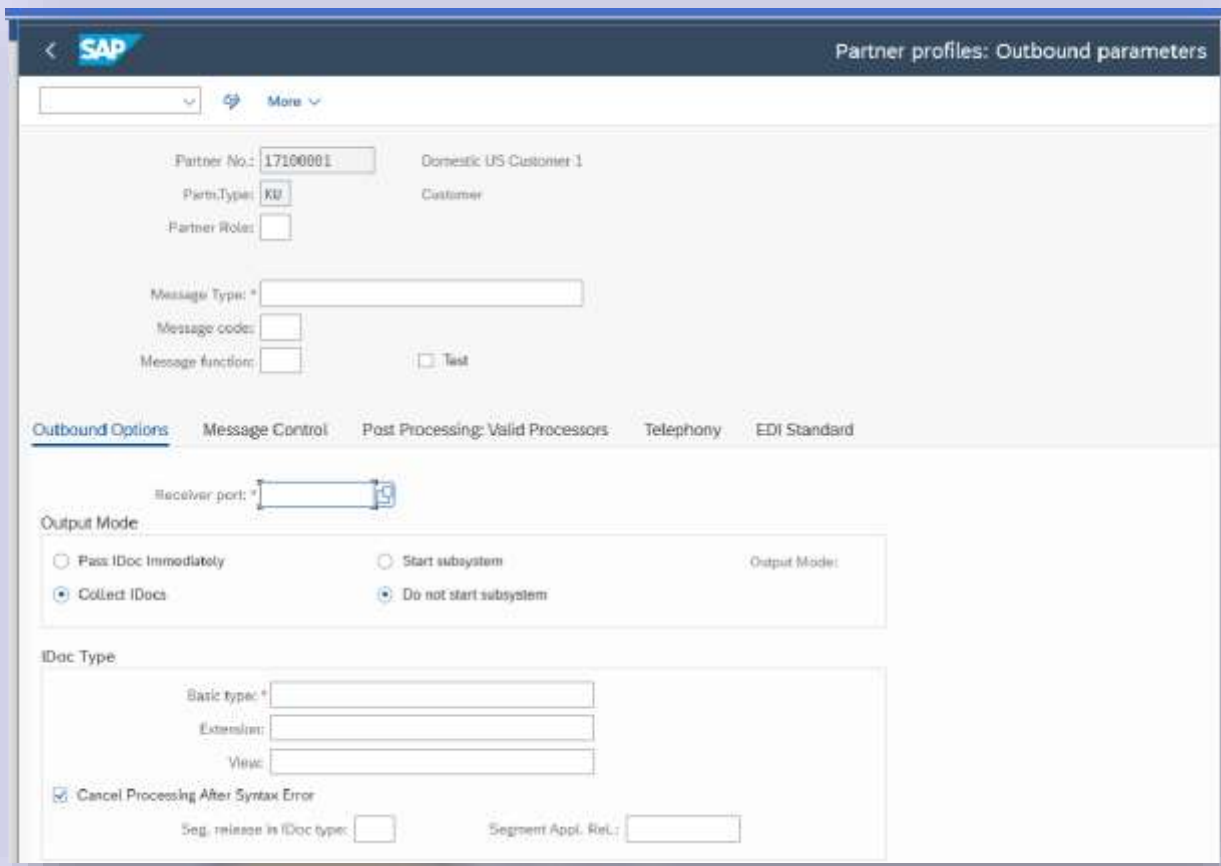
The partner number is the number of the customer to whom we want to send the invoice. Partner type: KU- Customer. And click to save button



Select + button to fill the outbound parameters because our purpose is to send the billing document to our customer to make a payment



This screen appears.



The screenshot shows the SAP 'Partner profiles: Outbound parameters' configuration screen. The 'Outbound Options' tab is selected. The 'Partner No.' is '1710001' and the 'Partner Type' is 'KU'. The 'Message Type' is empty. The 'Receiver port' is empty. Under 'Output Mode', 'Collect IDocs' is selected. Under 'IDoc Type', 'Basic type', 'Extension', and 'View' are empty. The 'Cancel Processing After Syntax Error' checkbox is checked.

**Provide this information**

**Output Mode: select Pass IDoc Immediately Partner role:**

**SH- Ship to party.**

**Message type: INVOIC**

**Receiver port: A00000020**

**And Select Message Control tab.**

**SAP** Partner profiles: Outbound parameters

Partner No.: 17100001 Domestic US Customer 1  
 Partner Type: KU Customer  
 Partner Role:

Message Type: INVOIC Invoice/Billing Document  
 Message code:   
 Message function:  Test

**Outbound Options** **Message Control** Post Processing: Valid Processors Telephony EDI Standard

Receiver port: A000000020 Transactional RFC: For billing  
 Pack. Size: 1

Queue Processing

Output Mode

Pass IDoc Immediately Output Mode: 2  
 Collect IDocs

IDoc Type

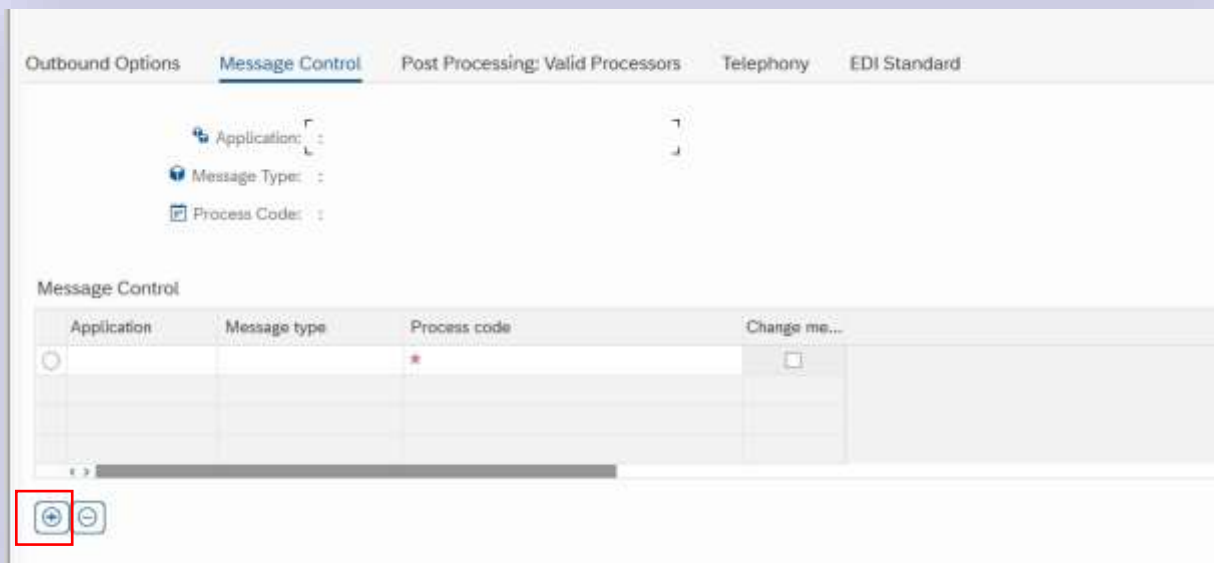
Basic type: INVOIC02 Invoice/Billing document  
 Extension:   
 View:

Cancel Processing After Syntax Error  
 Seg. release in IDoc type:  Segment Appl. Rel.:





Choose + button.



Outbound Options   **Message Control**   Post Processing: Valid Processors   Telephony   EDI Standard

Application: :  
 Message Type: :  
 Process Code: :

Message Control

Application	Message type	Process code	Change me...
		*	<input type="checkbox"/>

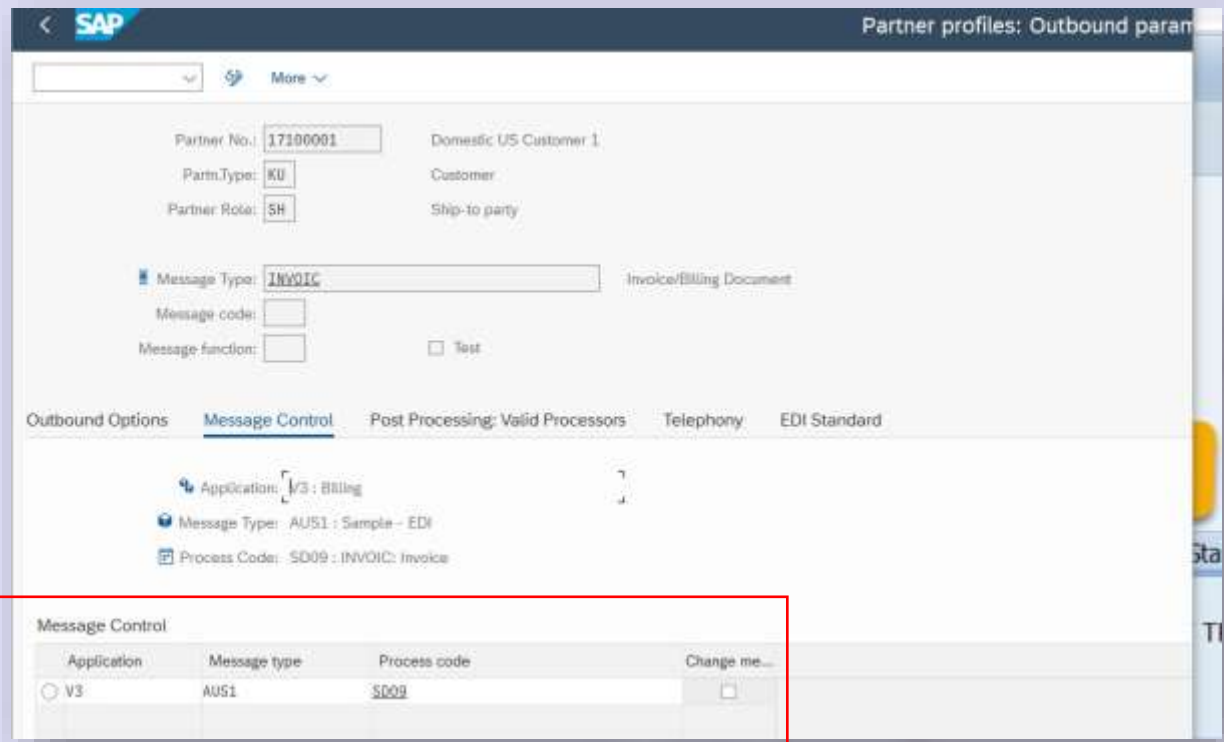
**+** **-**

Provide this information:

**Application: V3**

**Message type: AUS1**

**Process code: SD09 and save.**

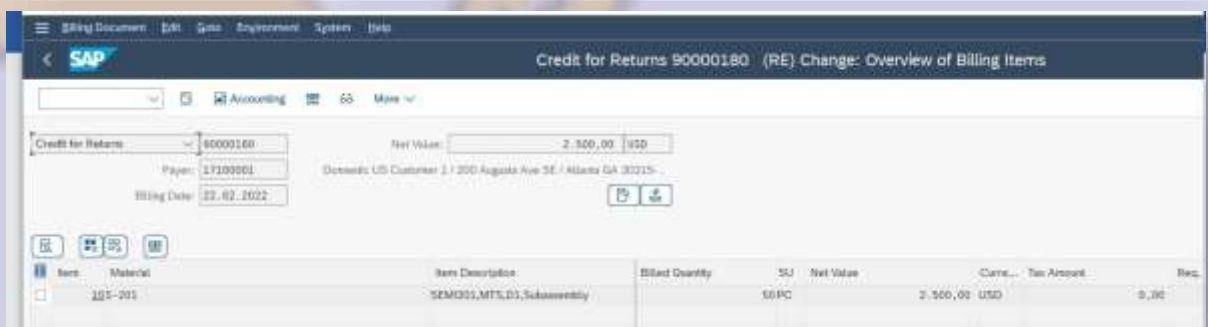


### 8) Business Process

All configuration it's done now we are ready to test our business process

Remember our purpose is that once we save the billing document the output type AUS1 is executed and send EDI with IDoc immediately

This is our invoice in VF02 T-code



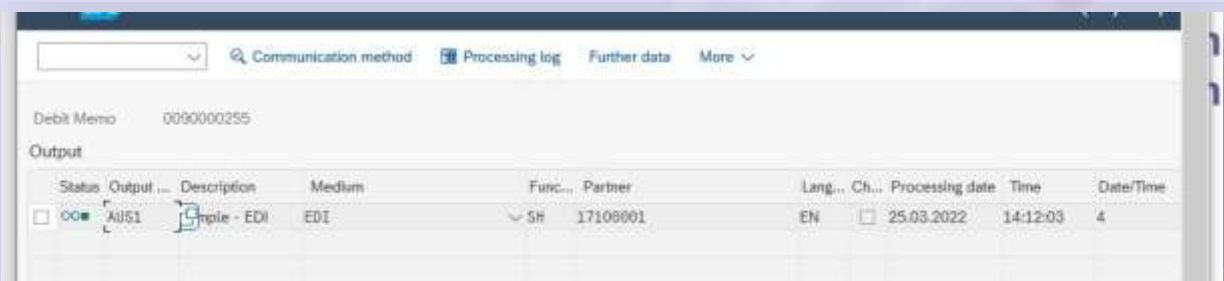
Save

✓ Document 90000254 saved (no journal entry generated).

### Check the output type

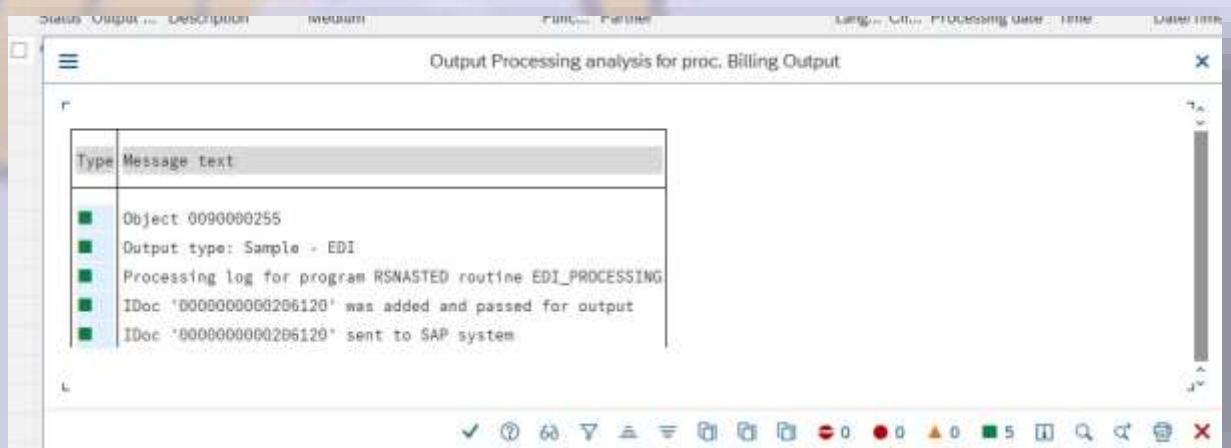
The status is green, which means that the output type AUS1 has been successfully executed.

### Select Processing Log button



Status	Output ...	Description	Medium	Func...	Partner	Lang...	Ch...	Processing date	Time	Date/Time
00	AUS1	Sample - EDI	EDI	SH	17100001	EN		25.03.2022	14:12:03	4

Everything is green, proof that our client has received the invoice



Type	Message text
■	Object 0090000255
■	Output type: Sample - EDI
■	Processing log for program RSNASTED routine EDI_PROCESSING
■	IDoc '0000000000206120' was added and passed for output
■	IDoc '0000000000206120' sent to SAP system

We can display the IDoc in Tcode: WE02

**SAP** IDoc List

Save as Variant... More

Default Additional EDI

Created At: 00:00:00 To: 23:59:59

Created On: 25.03.2022 To: 25.03.2022

Last Changed At: 00:00:00 To: 23:59:59

Last Changed On: To:

Direction:

IDoc Number: 206120 To:

Current Status:

Basic Type:

Enhancement:

Logical Message:

Message Variant:

Message Function:

Partner Port:

IDoc is executed successfully

**SAP** IDoc Display: 0000000000206120

More

IDoc display	Additional information	Short Technical Information				
<ul style="list-style-type: none"> <li>IDoc 0000000000206120               <ul style="list-style-type: none"> <li>Control Record</li> <li>Data records</li> <li>Status records                   <ul style="list-style-type: none"> <li>03</li> <li>30</li> <li>01</li> </ul> </li> </ul> </li> </ul>	Total number: 000054  Data passed to port OK IDoc ready for dispatch (ALE serv IDoc created	Direction: 1 Outbox Current Status: 03 OK Basic type: INV01C02 Extension: Message Type: INV01C Partner No.: 17100001 Partn.Type: RU Port: A000000019				
Content of Selected Segment <table border="1"> <thead> <tr> <th>Fld Name</th> <th>Fld Cont.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>			Fld Name	Fld Cont.		
Fld Name	Fld Cont.					

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