

Inter-Company Billing - Automatic Posting To Vendor Account (SAP-EDI)

Automatic posting to vendor account is done by EDI. In our case where both companies are processed in the same system (& client), it is sufficient to create Idoc.

This process requires several steps:

1. Creating a *Customer* to represent the receiving Company.
2. Creating a *Vendor* to represent the supplying company.
3. Creating a *Port*
4. Maintain an *Output Type*
5. Creating a *Logical Address*
6. Creating a *Partner Profile* for both Customer & Vendor
7. The relevant MM customizing is maintained.
8. The relevant FI customizing is maintained.

1. Creating a Customer to represent the receiving Company.

The customer has already been created (XD01) for the purpose of Intercompany processing and entered in the appropriate transaction in customizing (Sales and Distribution → Billing → Intercompany Billing → Define Internal Customer Number By Sales Organization).

Note: The customer has been created in the supplying company code. The organizational data in this case is:

Supplying Company Code:	1180
Supplying Plant:	1180
Supplying Sales Organization:	1180
Supplying Distribution Channel:	01
Supplying Division:	00
Receiving Company Code:	3100
Customer representing the receiving Company Code:	P3100

2. Creating a Vendor to represent the supplying company.

The Vendor is created with the standard transaction (XK01).

Note: The Vendor is created in the receiving Company Code. The organizational data in this case is the same as above.

Vendor representing the supplying Company Code: P1180

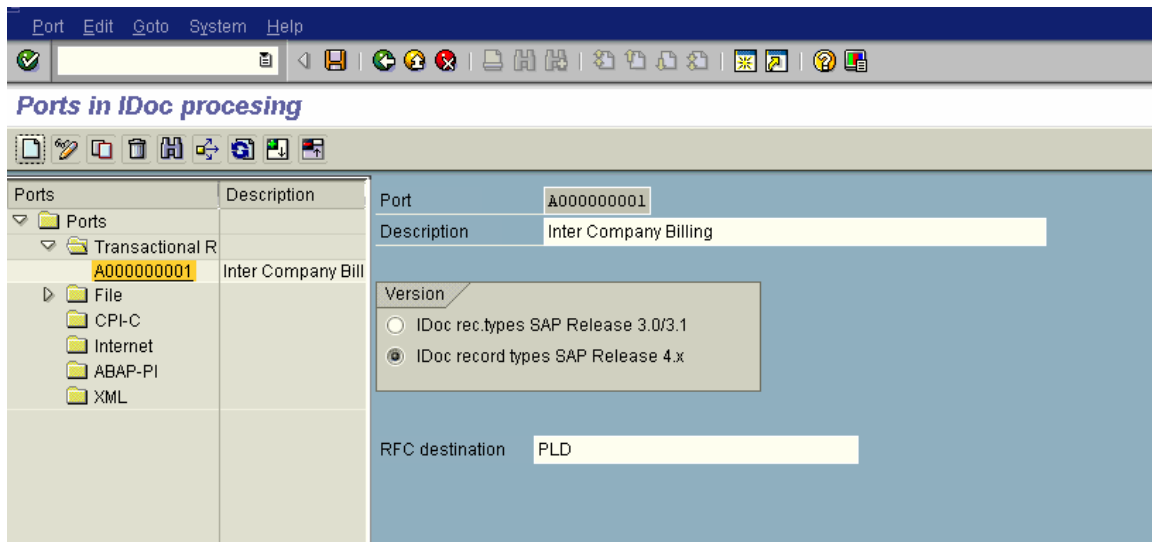
NOTE: There is **NO** need to “connect” vendor to customer in the control screen.

3. Creating a Port

Tools → Business Communication → IDoc Basis → Idoc → Port Definition
(T. Code WE21)

Maintain Transactional RFC: (Choose Transactional RFC and press the create icon).
A dialog box will open asking whether you want the system to generate an automatic name or whether you wish to use your own name.

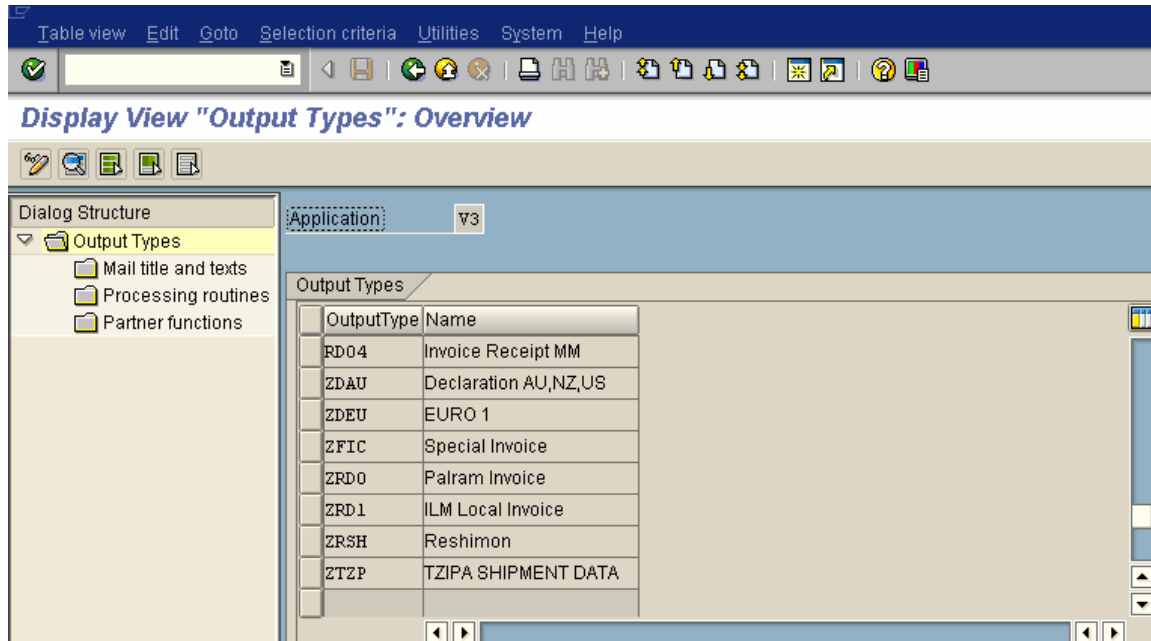
Port name: Automatically generated
Version: 4.x
RFC destination: PLD (This was defined by the basis people).



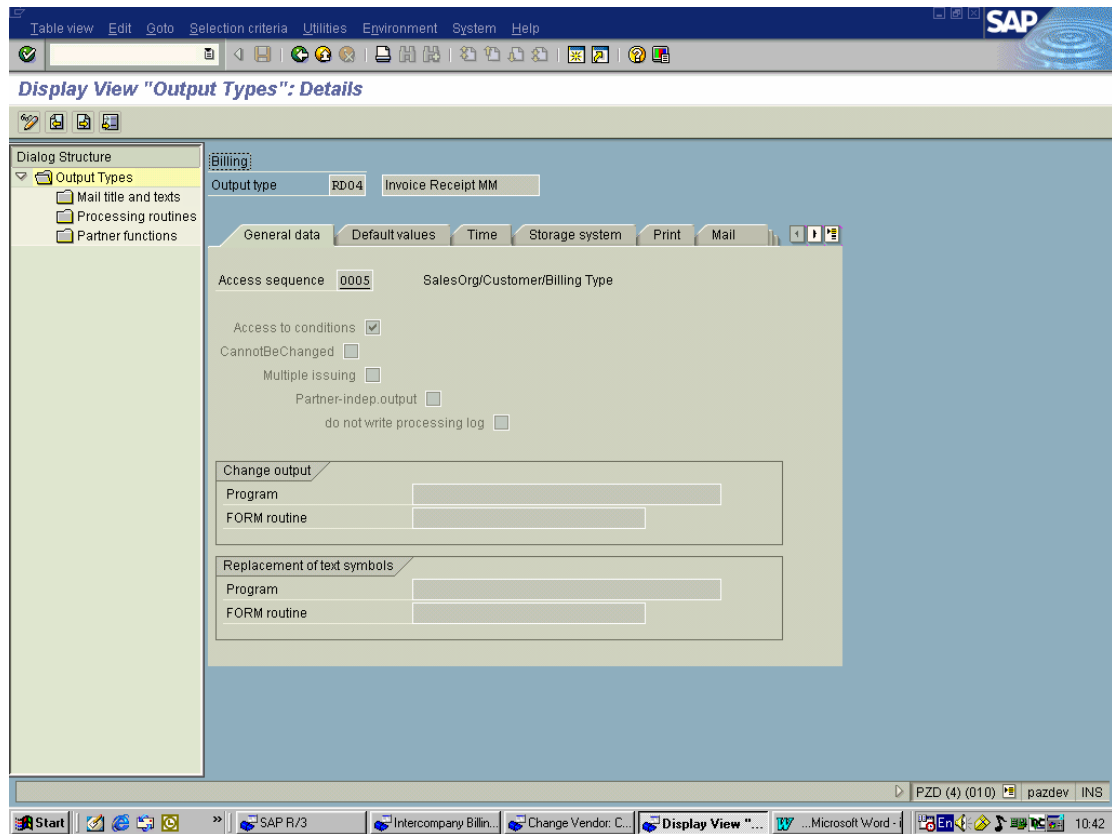
4. Maintain output type

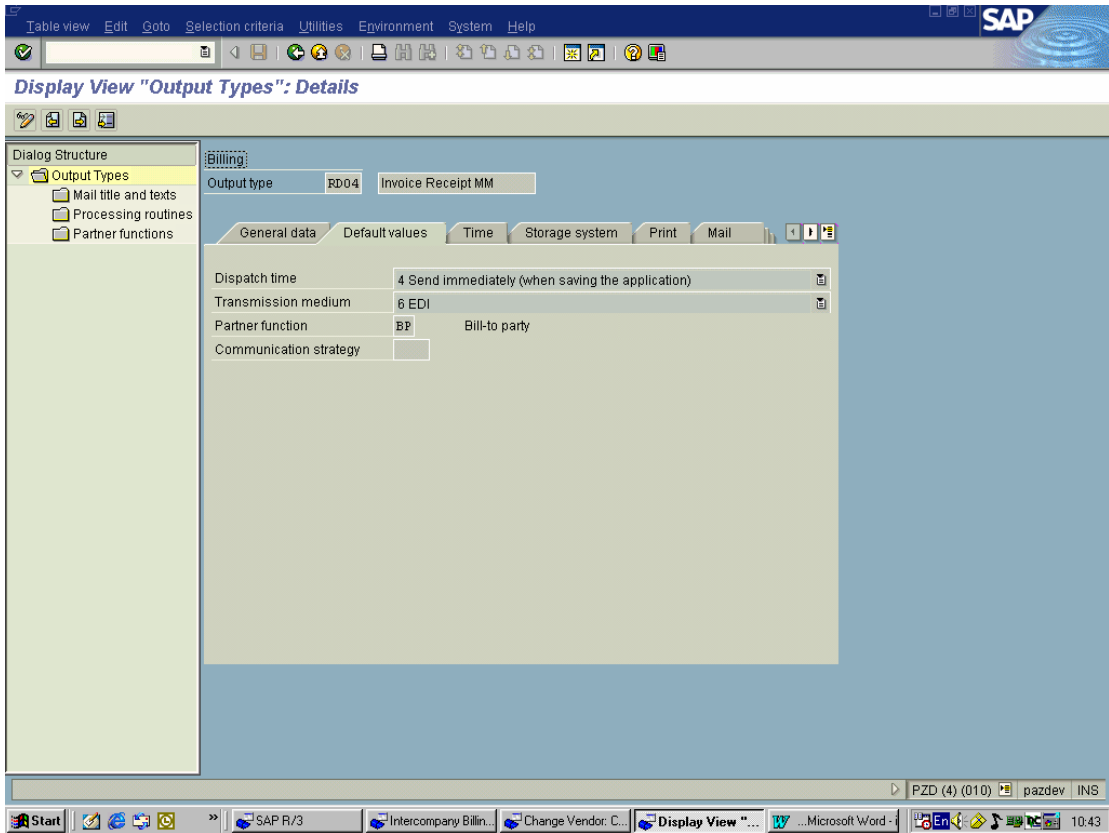
Output Type RD04 - Invoice Receipt MM is a special function, responsible for the execution of the Idoc and will be entered in the Partner Profile later on.

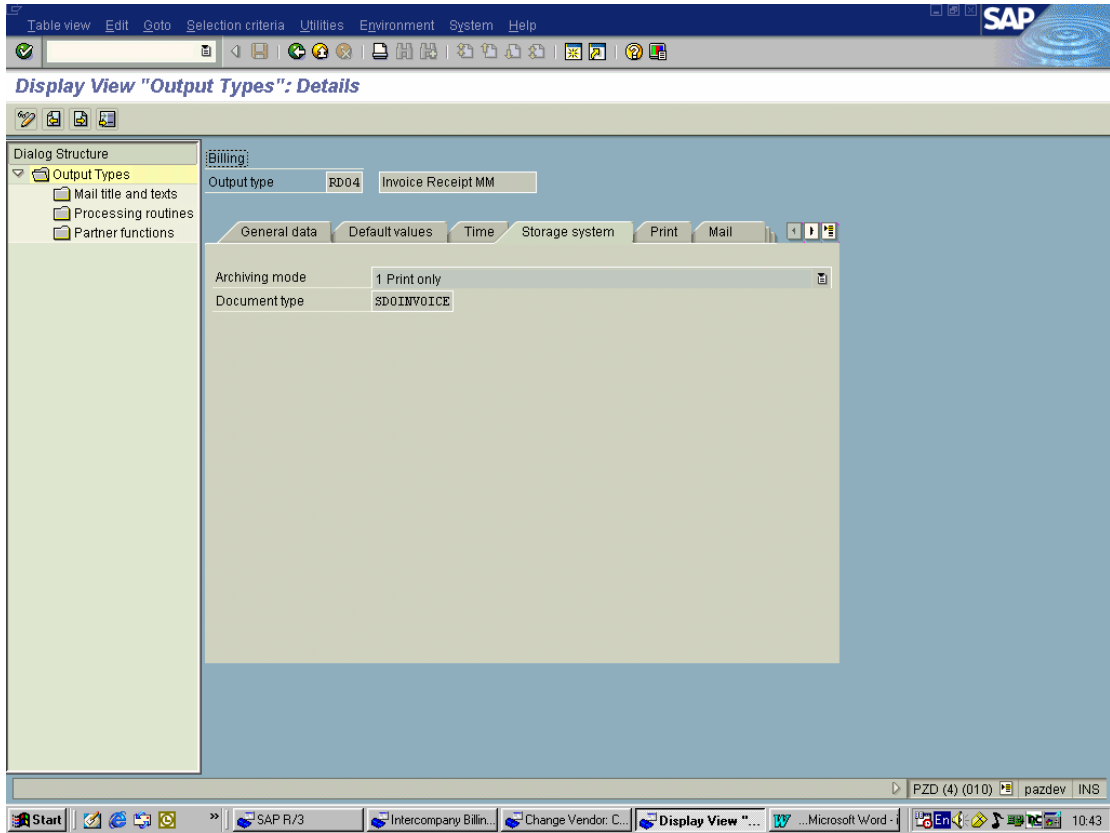
Output type RD04 is maintained: **Img:** Sales and Distribution → Basic functions → Output control → Output Determination → Output Determination Using the Condition Technique → Maintain Output Determination for Billing Documents → Maintain Output Types (T. Code V/40).

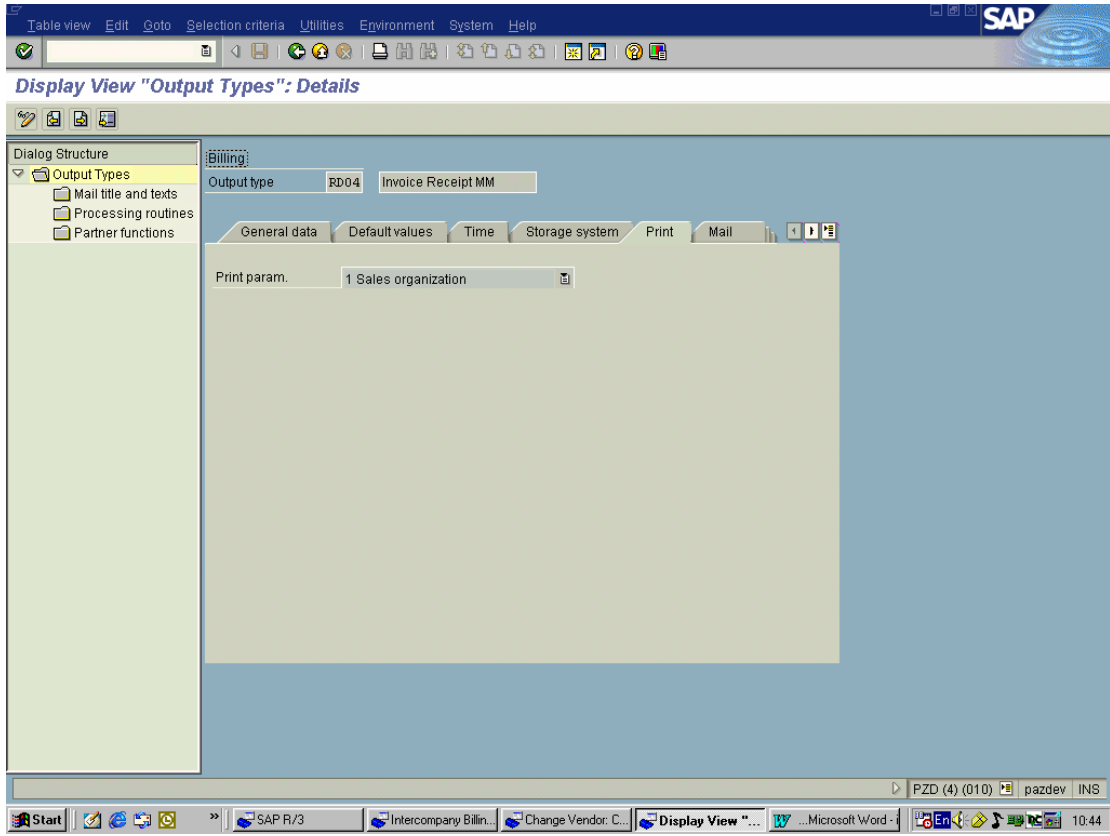


Details

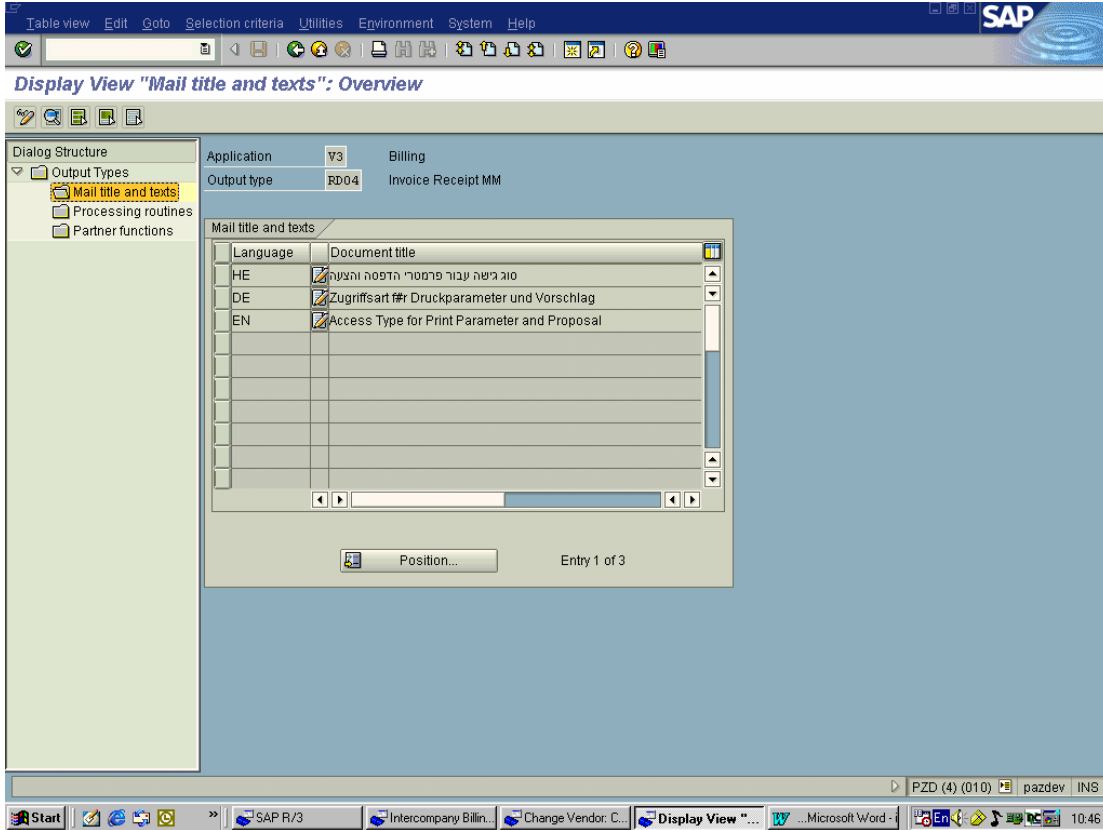




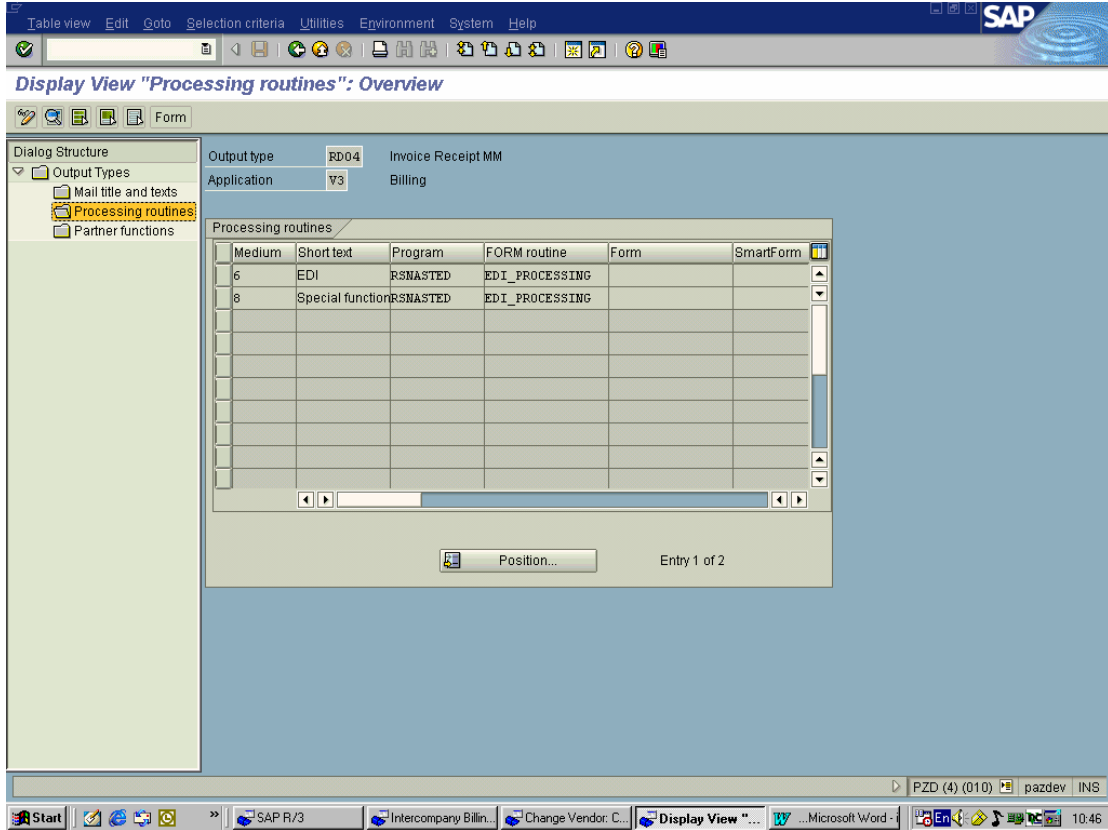




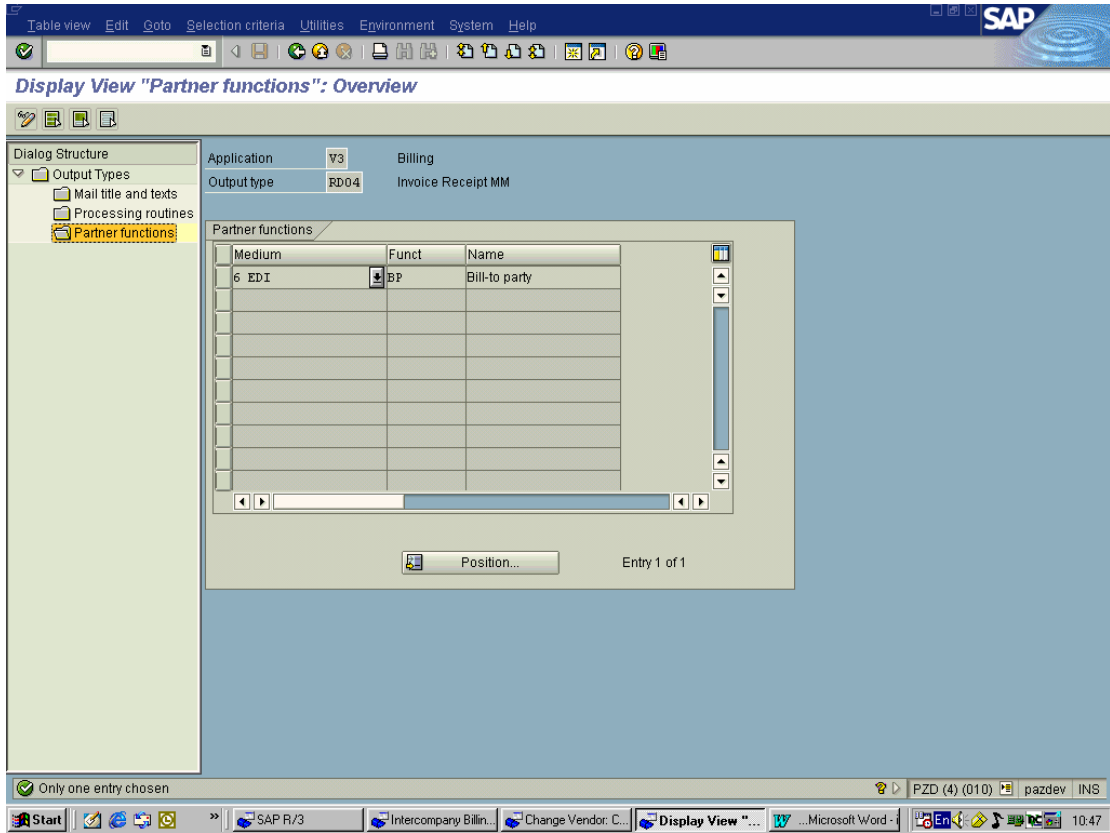
Mail title and texts



Processing routines

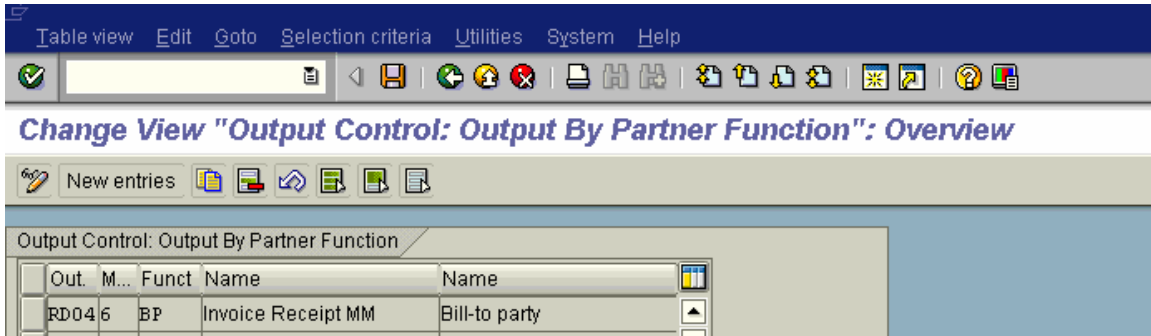


Partner functions

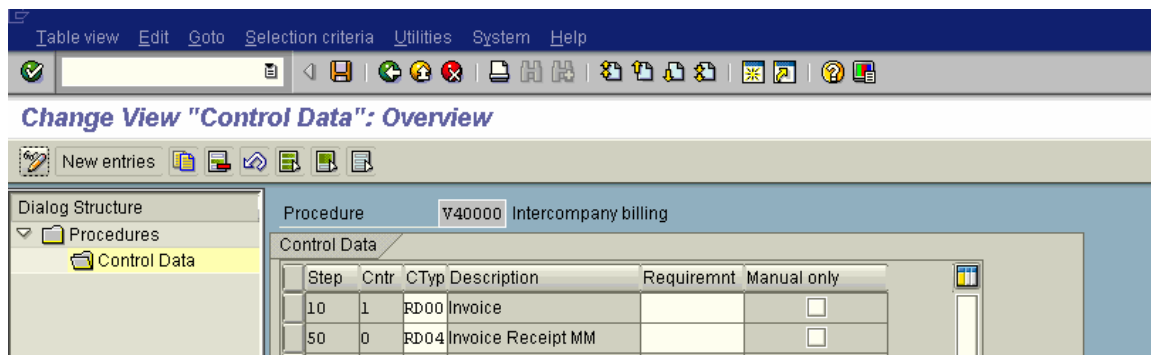
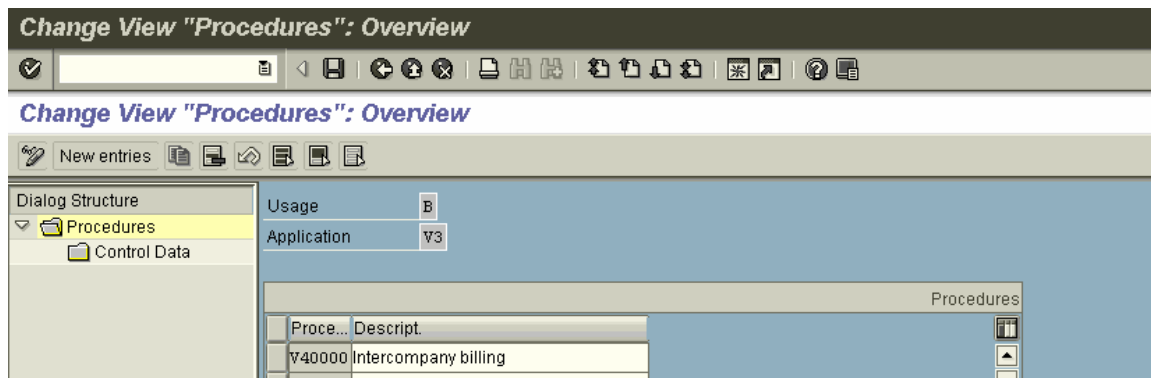


Sales and Distribution → Basic Functions → Output Control → Output Determination → Output Determination Using the Condition Technique → Maintain Output Determination for Billing Documents

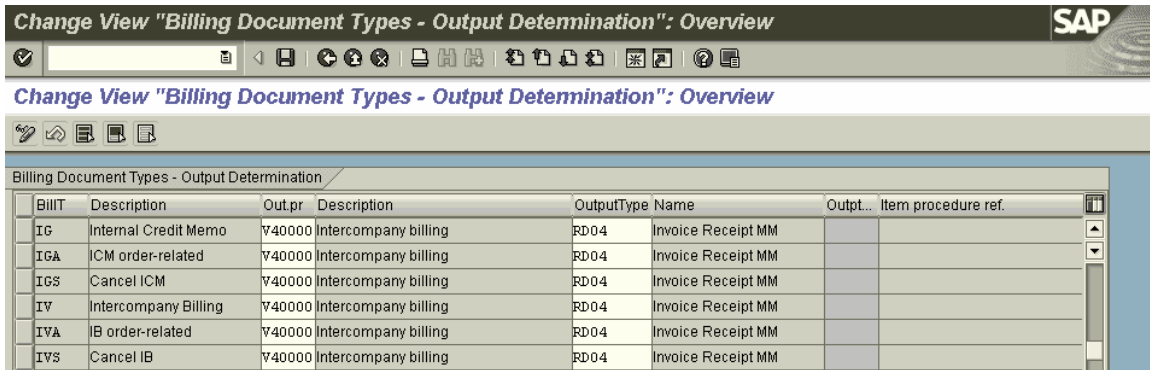
Assign Output Types To Partner Functions



Maintain Output Determination Procedure



Assign Output Determination Procedures



The screenshot shows the SAP interface for 'Billing Document Types - Output Determination'. The title bar reads 'Change View "Billing Document Types - Output Determination": Overview' with the SAP logo on the right. Below the title bar is a toolbar with various icons. The main content area is a table with the following data:

BillT	Description	Out.pr	Description	OutputType	Name	Outpt...	Item procedure ref.
IG	Internal Credit Memo	V40000	Intercompany billing	RD04	Invoice Receipt MM		
IGA	ICM order-related	V40000	Intercompany billing	RD04	Invoice Receipt MM		
IGS	Cancel ICM	V40000	Intercompany billing	RD04	Invoice Receipt MM		
IV	Intercompany Billing	V40000	Intercompany billing	RD04	Invoice Receipt MM		
IVA	IB order-related	V40000	Intercompany billing	RD04	Invoice Receipt MM		
IVS	Cancel IB	V40000	Intercompany billing	RD04	Invoice Receipt MM		

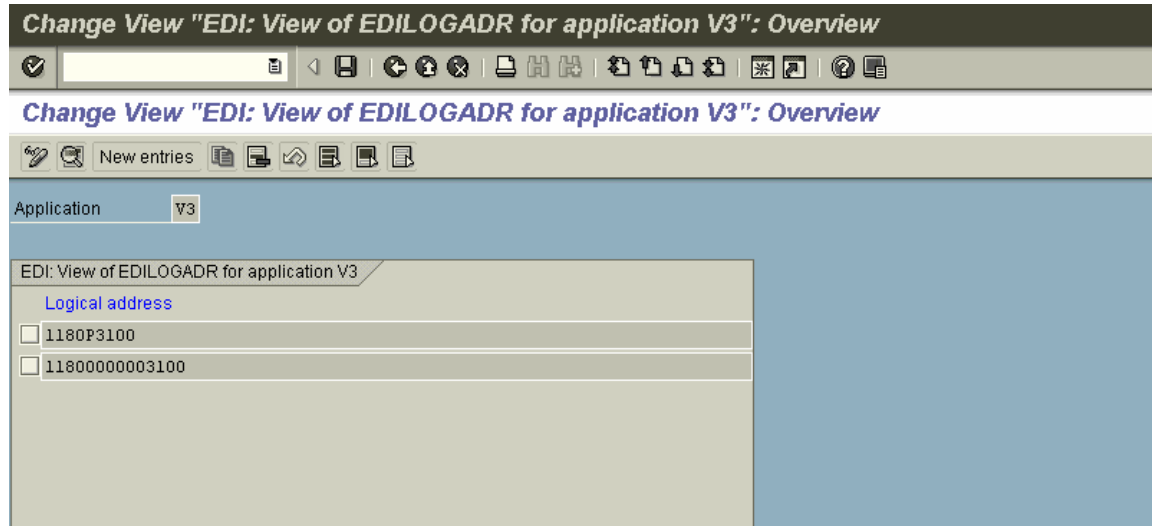
Master Data

Maintain output Master Data

Logistics → Sales and Distribution → Master Data → Output → (T. Code VV31)

5. Create Logical Address

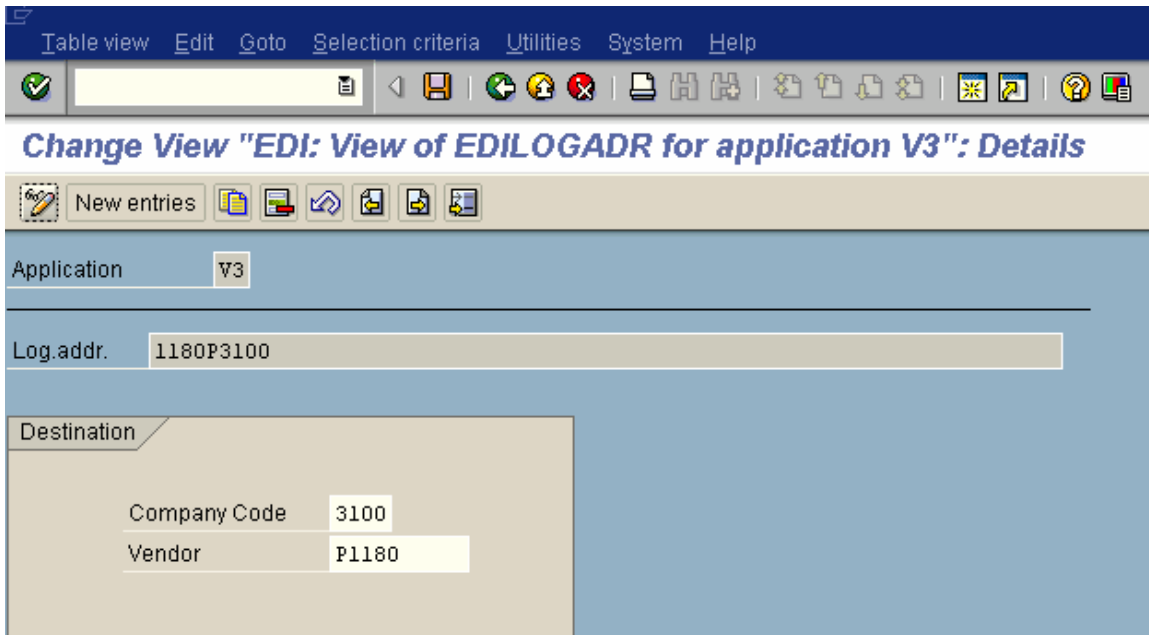
Img: Sales and Distribution → Billing → Intercompany Billing → Automatic Posting To Vendor Account (SAP-EDI) → Assign vendor. (T. Code WEL1)



Logical address 1180P3100 is made of the supplying Company Code (1180) and the receiving Customer (P3100).

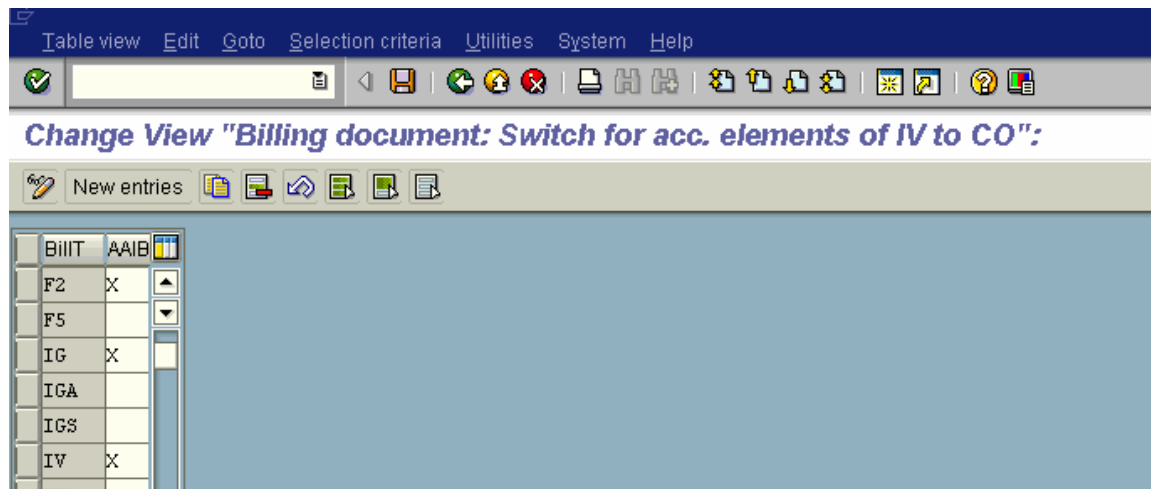
Note: If the receiving Customer is a numeric number you must add zeros between the Company code and Customer number so the Logical Address will be 14 digits. E.g if the customer number was 3100, than the logical address would have been 11800000003100 as can be seen in the second line. (In our case the customer is an alpha numeric number so the second line was not necessary. It was created just for this documentation and was not saved)

The Logical address is completed when the receiving Company Code and the Vendor are entered in the detail screen.



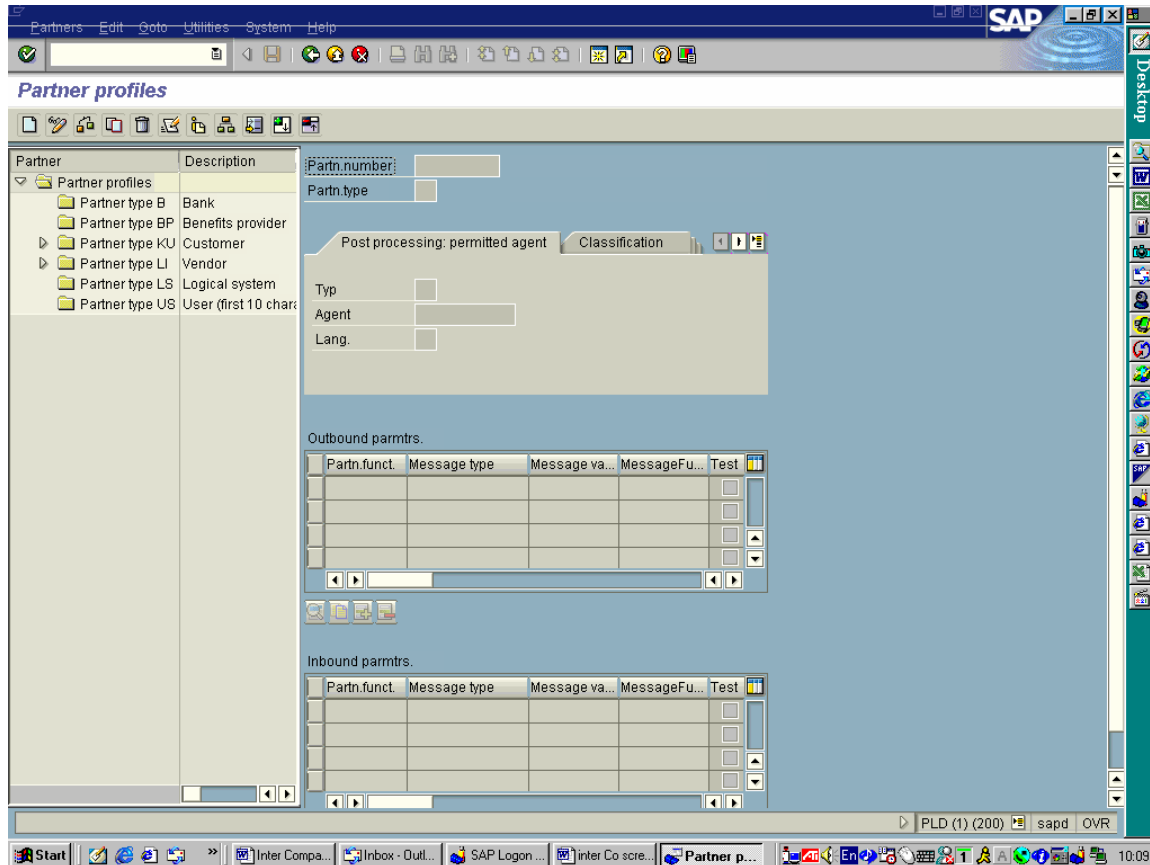
It is also necessary to activate the account assignment.

Img: Sales and Distribution → Billing → Intercompany Billing → Automatic Posting To Vendor Account (SAP-EDI) → Activate account assignment.



6. Creating a *Partner Profile* for both Customer & Vendor

Tools → Business Communication → IDoc Basis → Idoc → Partner Profile (T. Code WE20)

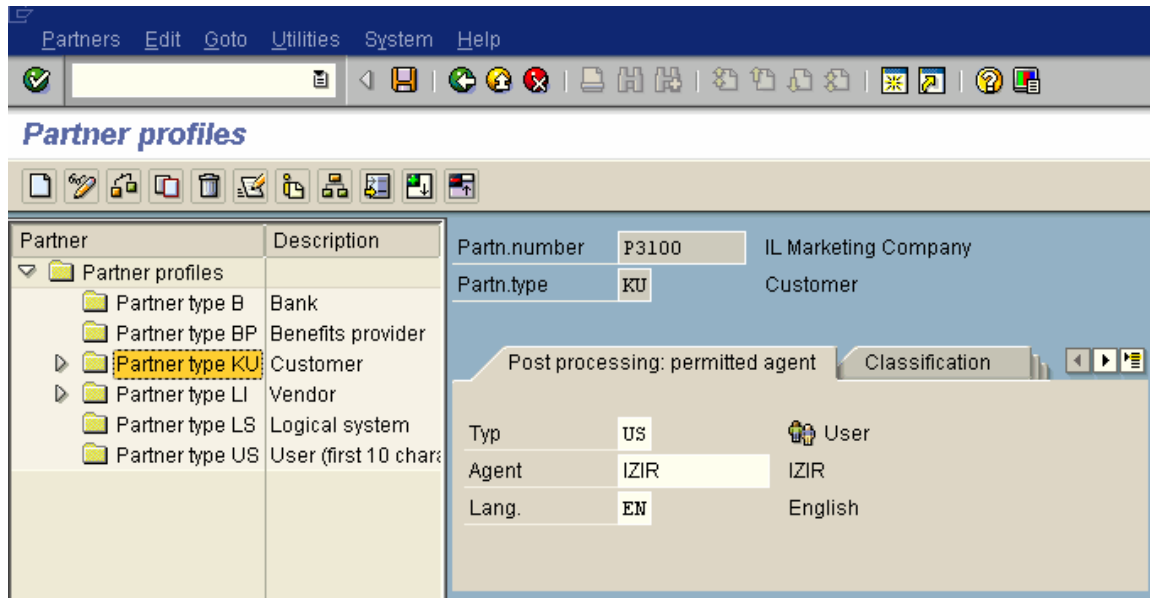


Customer:

Put cursor on Partner type KU and press create.

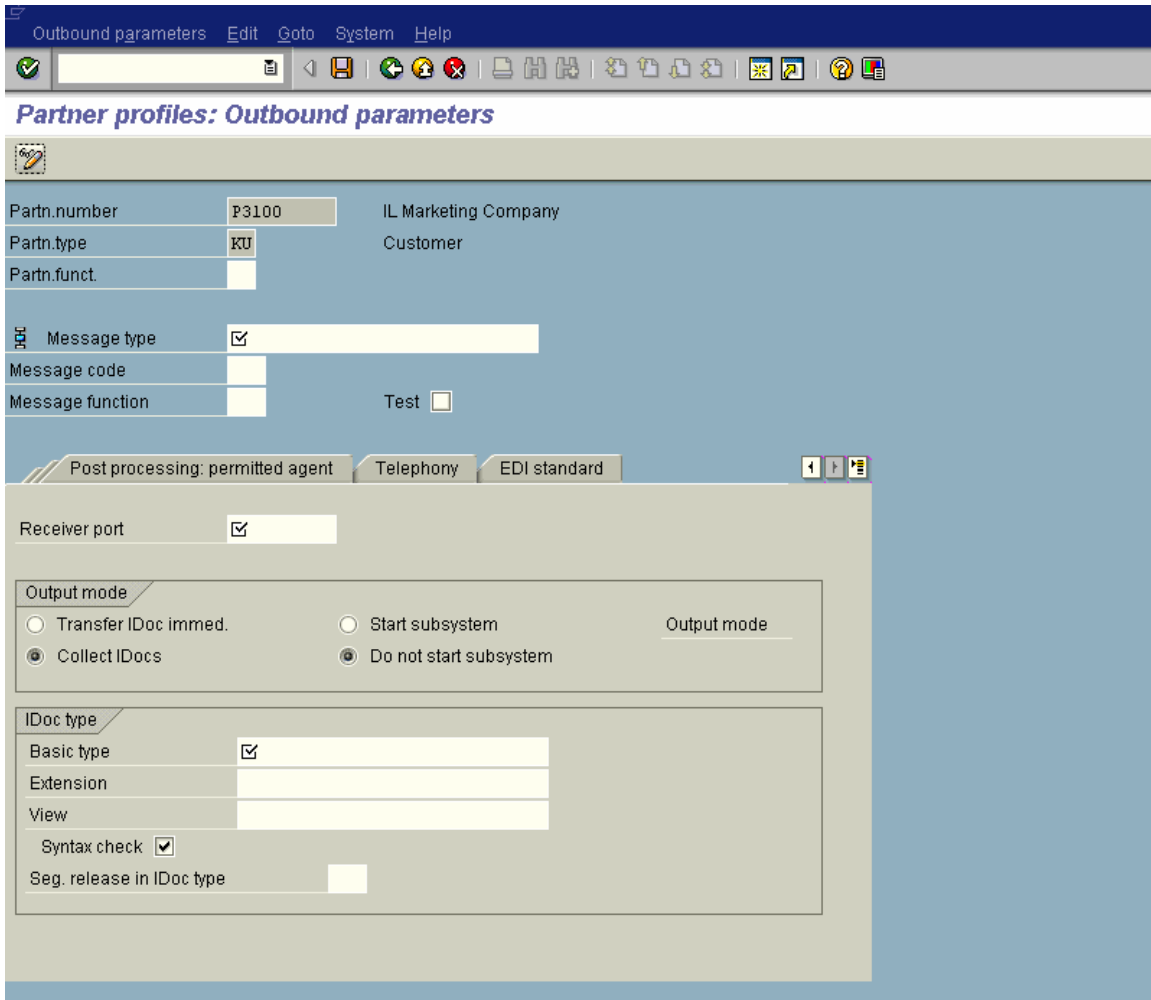
Enter typ, Agent & Lang,

SAVE



Press  in outbound paratrs. Section, to maintain detail screens

The following screen will appear.



Outbound parameters Edit Goto System Help

Partner profiles: Outbound parameters

Partn.number P3100 IL Marketing Company
Partn.type KU Customer
Partn.funct.

Message type
Message code
Message function Test

Post processing: permitted agent Telephony EDI standard

Receiver port

Output mode
 Transfer IDoc immed. Start subsystem Output mode
 Collect IDocs Do not start subsystem

IDoc type
Basic type
Extension
View
Syntax check
Seg. release in IDoc type

Enter the following data in the appropriate fields:


Partn.funct.	BP
Message type	INVOIC
Message Code	FI
Receiving port	A000000001
Basic Type	INVOIC01

Press enter and the screen will change to the following:

The screenshot shows the SAP 'Outbound parameters' configuration window for partner profile P3100. The window title is 'Outbound parameters' and it includes a menu bar with 'Edit', 'Goto', 'System', and 'Help'. The main title is 'Partner profiles: Outbound parameters'. The configuration is organized into several sections:

- Partner Data:**
 - Partn.number: P3100 (IL Marketing Company)
 - Partn.type: KU (Customer)
 - Partn.funct.: BP (Bill-to party)
- Message Data:**
 - Message type: INVOIC (Invoice / billing document)
 - Message code: FI
 - Message function: (empty) Test
- Outbound options:**
 - Receiver port: A000000001 (Transactional RFC Inter Company Billing)
 - PacketSize: 1
- Output mode:**
 - Transfer IDoc immed.
 - Collect IDocs Output mode 4
- IDoc type:**
 - Basic type: INVOIC01 (Invoice/Billing document)
 - Extension: (empty)
 - View: (empty)
 - Syntax check:
 - Seg. release in IDoc type: (empty)

Enter PacketSize 1

Go to the Message Control tab press  and enter the data as specified in the following screen

Outbound parameters Edit Goto System Help

Partner profiles: Outbound parameters

Partn.number: P3100 IL Marketing Company
 Partn.type: KU Customer
 Partn.funct.: BP Bill-to party

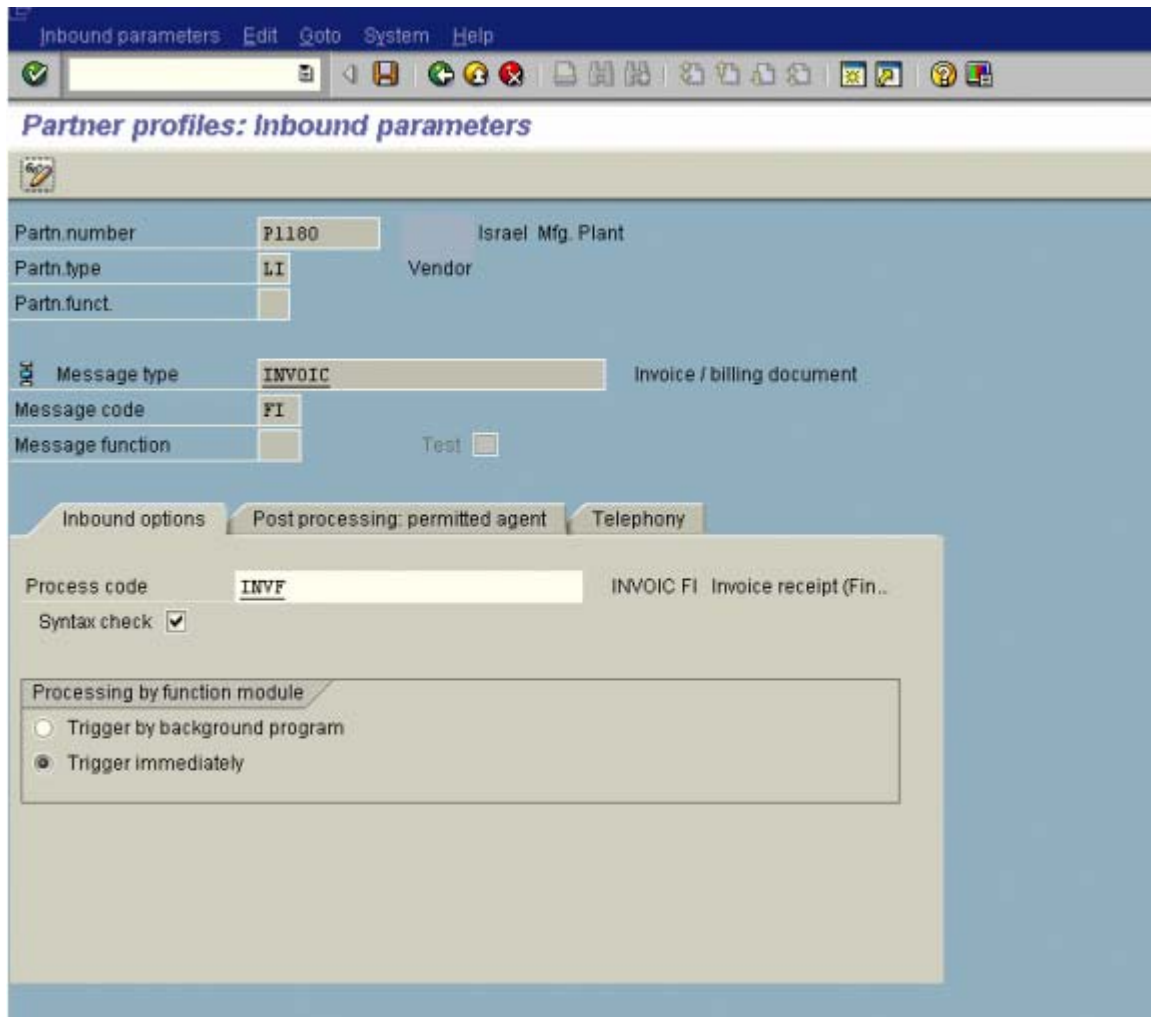
Message type: INVOIC Invoice / billing document
 Message code: FI
 Message function: Test

Outbound options Message Control Post processing: permitted agent Tele...

Application: V3 : Billing
 Message type: RD04 : Invoice Receipt MM
 Process code: SD08 : INVOIC: Internal allocation

Application	Message type	Process code	Change ...
V3	RD04	SD08	<input type="checkbox"/>

You can repeat the process for cases where invoice verification is done against purchase order. in this case enter MM in “message code field.



As you can see the only difference between the FI & MM invoice is in the message code and output type.

NOTE: You cannot use output type RD04 again therefore you must copy it in customizing to another output type (in this case RD00)

Vendor

Follow the same procedures but maintain the inbound paratrs. Screen as follows:

The screenshot shows the SAP 'Partner profiles: Inbound parameters' configuration screen. The window title is 'Inbound parameters' with a menu bar containing 'Edit', 'Goto', 'System', and 'Help'. The main title is 'Partner profiles: Inbound parameters'. The form contains the following fields and options:

- Partn.number:** P1180
- Partn.type:** LI
- Partn.funcnt.:** (empty)
- Message type:** INVOIC (Invoice / billing document)
- Message code:** FI
- Message function:** (empty) with a 'Test' checkbox.
- Process code:** INVF (INVOIC FI Invoice receipt (Fin...))
- Syntax check:**
- Processing by function module:**
 - Trigger by background program
 - Trigger immediately

Navigation tabs at the bottom include 'Inbound options', 'Post processing: permitted agent', and 'Telephony'.

Partner profiles: Inbound parameters SAP

Partner profiles: Inbound parameters

Partner number: Israel Mfg. Plant
Partner type: Vendor
Partner funct.:

Message type: Invoice / billing document
Message code:
Message function: Test

Inbound options | Post processing: permitted agent | Telephony

Process code: INVOIC MM Invoice Verificabo...
Syntax check:

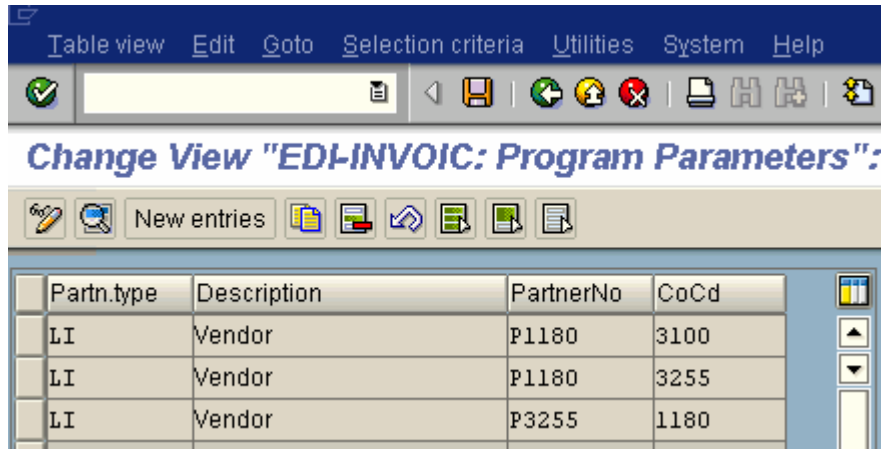
Processing by function module

- Trigger by background program
- Trigger immediately

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FI CUSTOMIZING

Financial Accounting → Accounts Receivable and Accounts Payable → Business Transactions → Incoming Invoices/Credit Memos → EDI → Enter Program Parameters for EDI Incoming Invoice (T. Code OBCE)

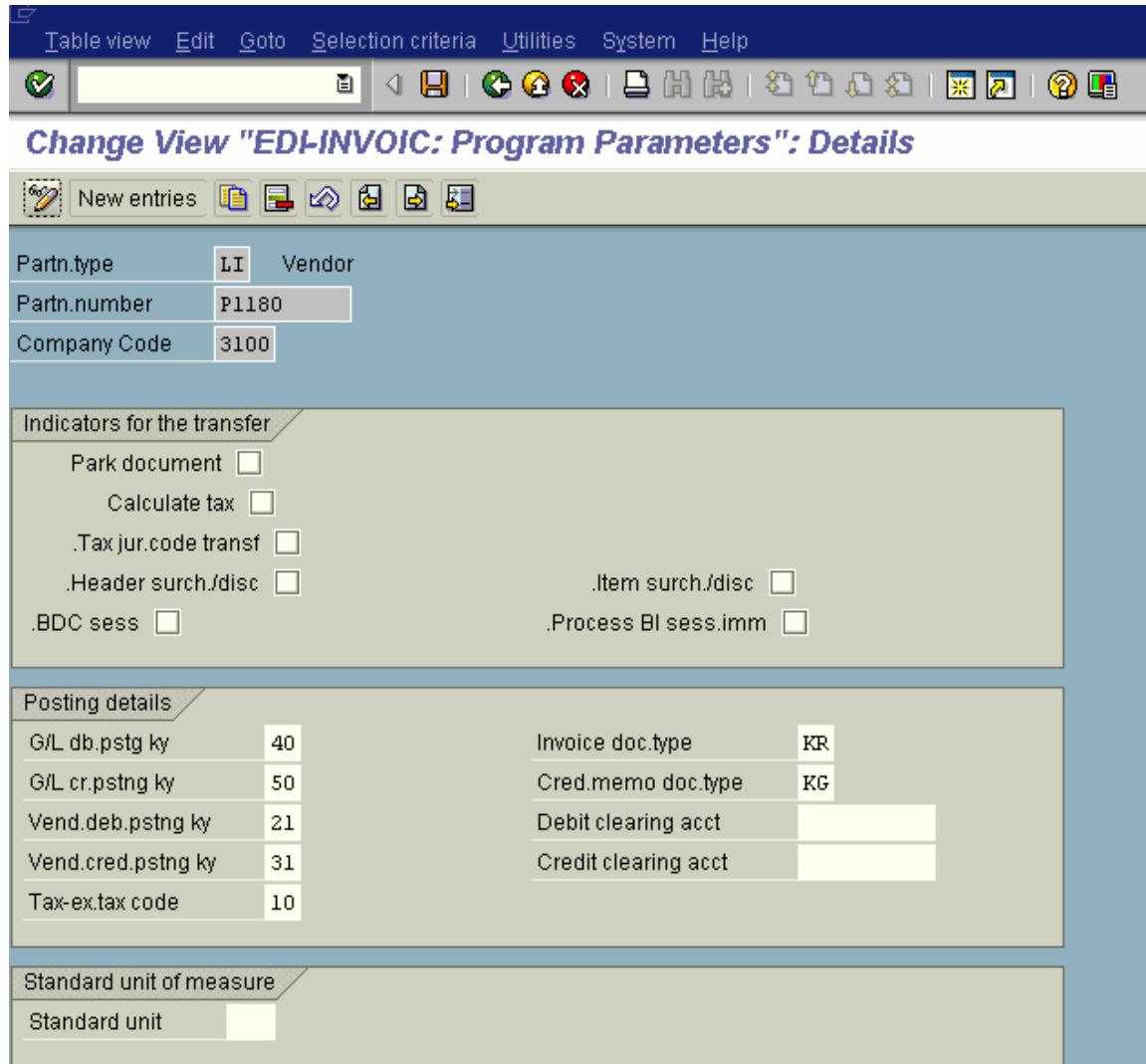


The screenshot shows a SAP table view titled "Change View 'EDI-INVOIC: Program Parameters'". The table has four columns: Partn.type, Description, PartnerNo, and CoCd. It contains three rows of data.

Partn.type	Description	PartnerNo	CoCd
LI	Vendor	P1180	3100
LI	Vendor	P1180	3255
LI	Vendor	P3255	1180

Make sure to maintain posting types, tax code and invoice doc.type. Use KR when not using purchase order & RE when using purchase order.

Details



The screenshot shows the SAP 'Change View "EDI-INVOIC: Program Parameters": Details' window. The interface includes a menu bar (Table view, Edit, Goto, Selection criteria, Utilities, System, Help) and a toolbar with various icons. The main content area is divided into several sections:

- Partn.type**: LI Vendor
- Partn.number**: P1180
- Company Code**: 3100

Indicators for the transfer

Park document	<input type="checkbox"/>
Calculate tax	<input type="checkbox"/>
.Tax jur.code transf	<input type="checkbox"/>
.Header surch./disc	<input type="checkbox"/>
.BDC sess	<input type="checkbox"/>
.Item surch./disc	<input type="checkbox"/>
.Process BI sess.imm	<input type="checkbox"/>

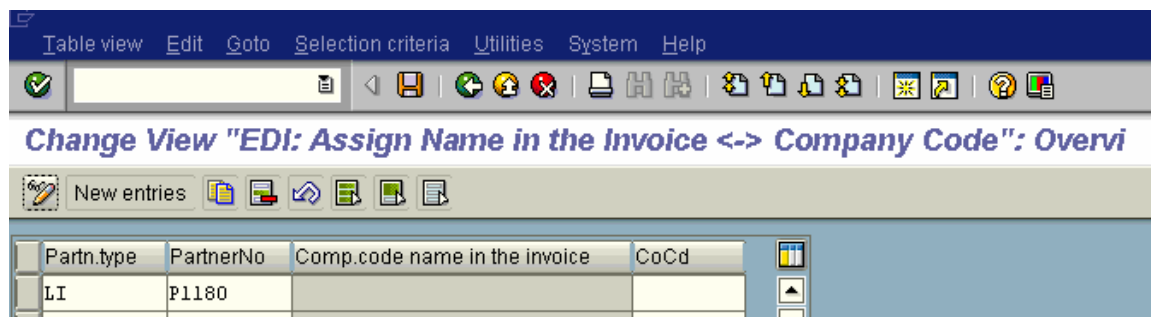
Posting details

G/L db.pstg ky	40	Invoice doc.type	KR
G/L cr.pstng ky	50	Cred.memo doc.type	KG
Vend.deb.pstng ky	21	Debit clearing acct	
Vend.cred.pstng ky	31	Credit clearing acct	
Tax-ex.tax code	10		

Standard unit of measure

Standard unit

Assign Company Code for EDI Incoming Invoice

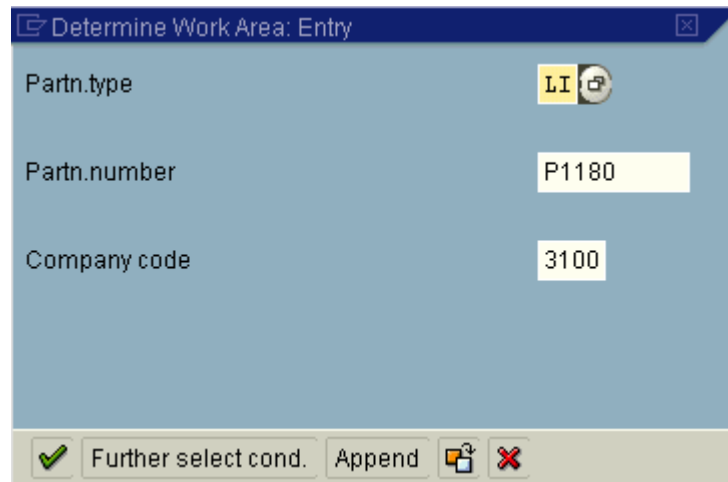


The screenshot shows the SAP 'Change View "EDI: Assign Name in the Invoice <-> Company Code": Overvi' window. The interface includes a menu bar (Table view, Edit, Goto, Selection criteria, Utilities, System, Help) and a toolbar. The main content area is a table with the following data:

Partn.type	PartnerNo	Comp.code name in the invoice	CoCd
LI	P1180		

By leaving the field CoCd blank, all company codes are available.

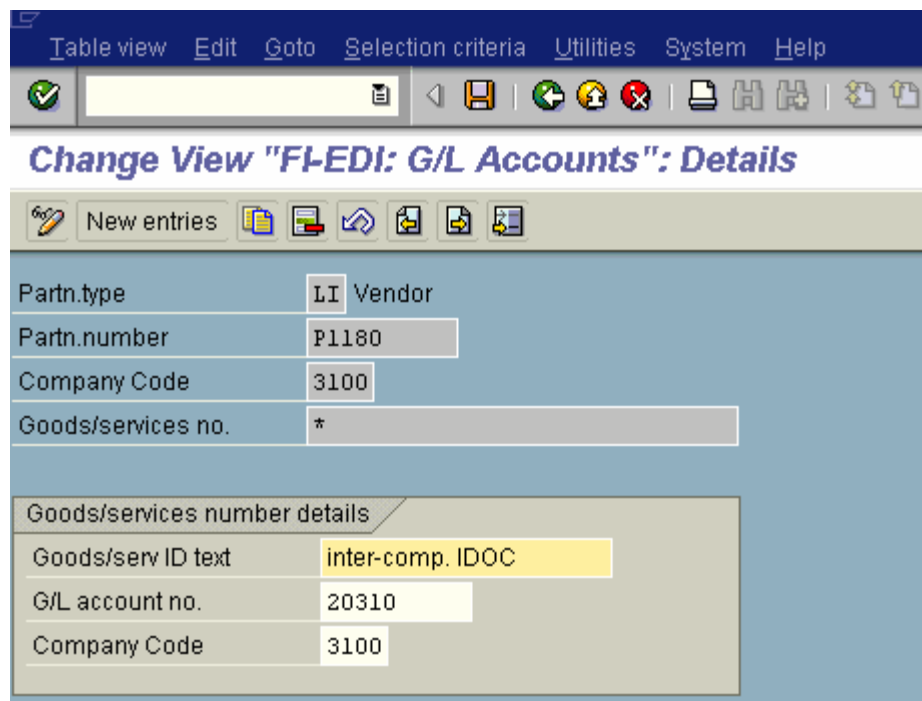
Assign G/L Accounts for EDI Procedures (T. Code OBCB)



The screenshot shows a dialog box titled "Determine Work Area: Entry". It contains three input fields: "Partn.type" with a dropdown menu showing "LI" and a lock icon, "Partn.number" with the text "P1180", and "Company code" with the text "3100". At the bottom, there are four buttons: a green checkmark icon, "Further select cond.", "Append", and a red X icon.

P1180 = Vendor

3100 = Company Code of receiving company (of customer)



The screenshot shows a window titled "Change View 'FI-EDI: G/L Accounts': Details". The window has a menu bar with "Table view", "Edit", "Goto", "Selection criteria", "Utilities", "System", and "Help". Below the menu bar is a toolbar with various icons. The main area contains a table with the following data:

Partn.type	LI	Vendor
Partn.number	P1180	
Company Code	3100	
Goods/services no.	*	

Below this table is a section titled "Goods/services number details" with the following data:

Goods/serv ID text	inter-comp. IDOC
G/L account no.	20310
Company Code	3100

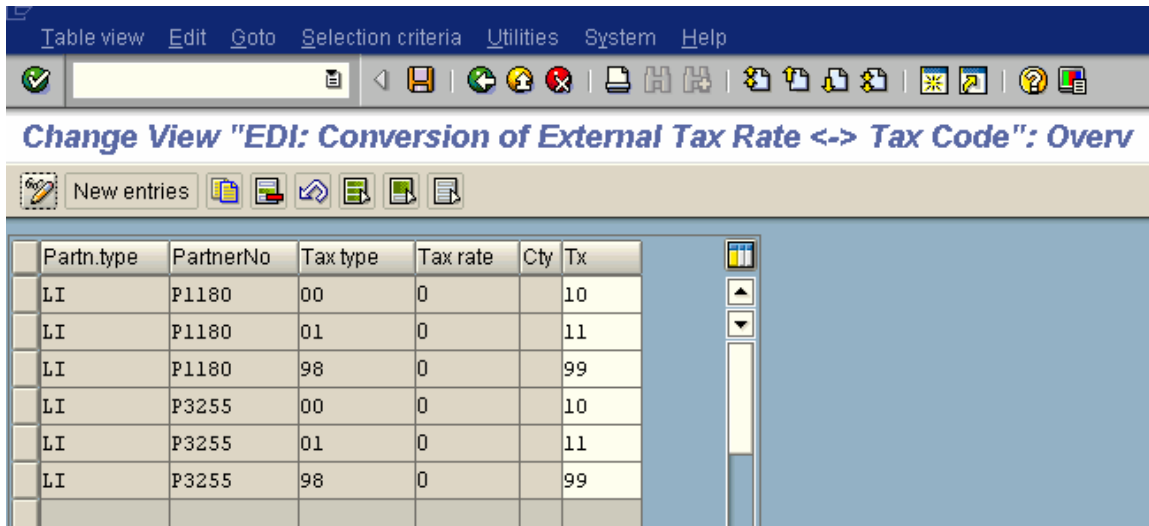
NOTE:

G/L account should not be connected to CO.

Assign Tax Codes for EDI Procedures (T.Code OBCD)

It is necessary to match the output tax from the sales order to the input tax.

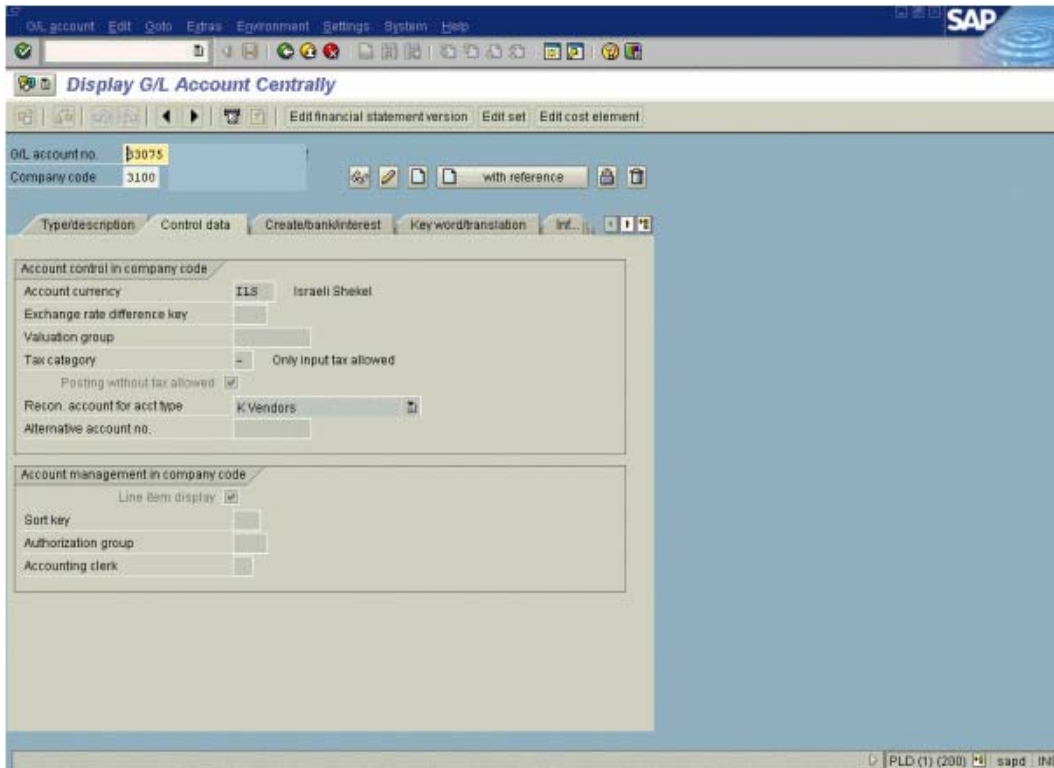
Tax type = Output Tax
Tx = Input Tax



The screenshot shows the SAP 'Change View' interface for 'EDI: Conversion of External Tax Rate <-> Tax Code'. The table below lists the mapping between partner types, partner numbers, tax types, tax rates, and tax codes.

Partn.type	PartnerNo	Tax type	Tax rate	Cty	Tx
LI	P1180	00	0		10
LI	P1180	01	0		11
LI	P1180	98	0		99
LI	P3255	00	0		10
LI	P3255	01	0		11
LI	P3255	98	0		99

Accounting → Financial Accounting → General Ledger → Master Records → Individual Processing → Centrally (T.Code FS00)



G/L account no. = account number that was entered in transaction OBCB (page 24)
Tax category must allow for input tax.

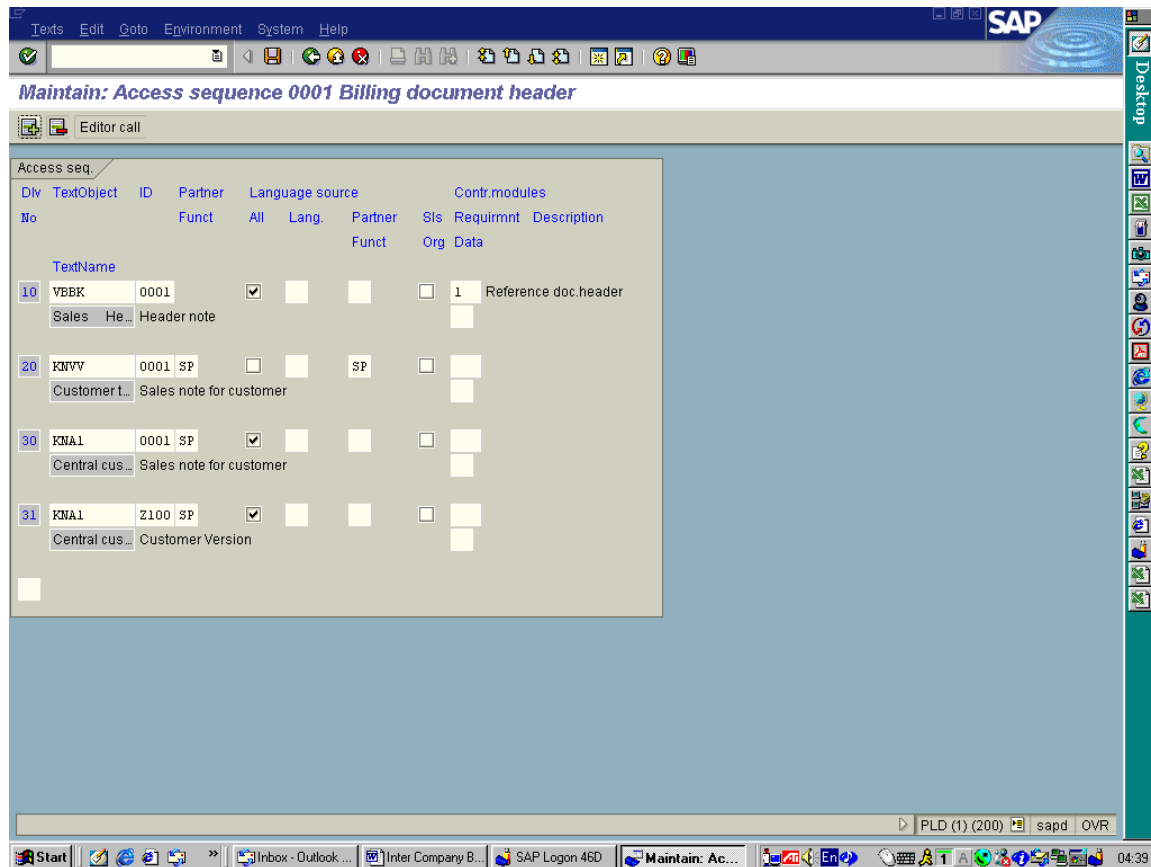
Make sure manual posting is allowed for the G/L account. (“Create/Bank/Interest” screen).

TEXT

In many cases the G/L account has been configured so that text is mandatory. This could be either Header Text or Item Text.

Header Text

No special configuration is necessary. Just enter text in the “Header note”. You may use the following access sequence.



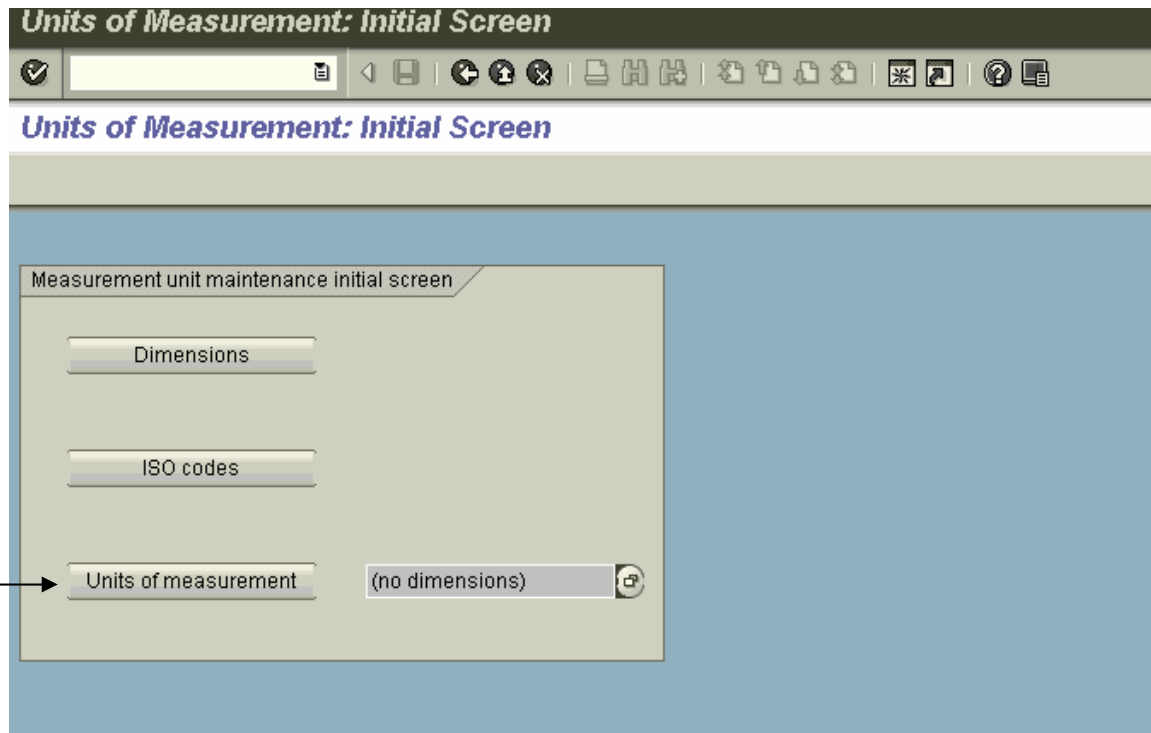
Item Text

It is necessary to implement a userexit in order to fill the item text field. Detailed instructions are found in note 39503

MM Customizing:

Make sure the Unit of Measure's ISO Codes are configured correctly.

General Settings → Check units of measurement (T. Code CUNI)



Unit of measurement Edit Goto Utilities System Help

Change Units of Measurement of Dimension (no dimensions): Overview

Unit	Commercial	Technical	Meas. unit text
ROL	ROL	ROL	Role
SET	SET	SET	Set
SHT	SHT	SHT	Sheet
ST	PC	PC	Piece
TH	TS	thou	Thousand
VAL	VAL	val	Value

Details

The screenshot shows the SAP 'Change Units of Measurement of Dimension (no dimensions): Details' dialog box. The interface includes a menu bar with 'Unit of measurement', 'Edit', 'Goto', 'Utilities', 'System', and 'Help'. The title bar displays 'SAP'. The main content area is divided into several sections:

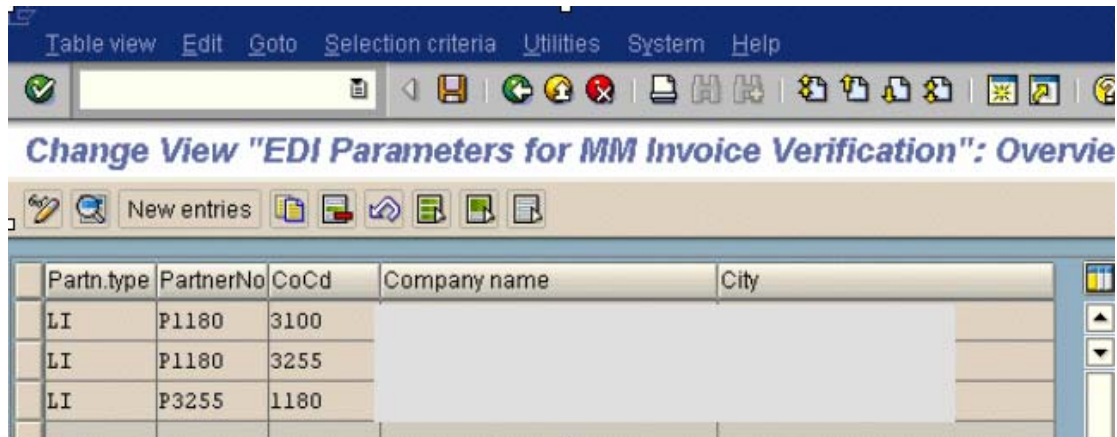
- int.measurement unit:** A dropdown menu showing 'SHT'.
- Display:** Fields for 'Commercial' (SHT), 'Technical' (SHT), 'Decimal places' (empty), and 'float. point exp.' (empty).
- Measurement unit text:** Fields for 'sheet' and 'Sheet'.
- Conversion:** Fields for 'Numerator' (1), 'Denominator' (1), 'Exponent' (0), 'Additive constant' (0.000000), 'Decimal pl. rounding' (empty), and 'Unit of meas. family' (empty).
- ALE/EDI:** Fields for 'ISO code' (PCE) and 'Primary code' (checkbox).
- Application parameters:** Fields for 'Commercial meas. unit' (checked) and 'Value-based commt' (checkbox).

The status bar at the bottom right shows 'PLD (1) (200) | sand | OVR'.

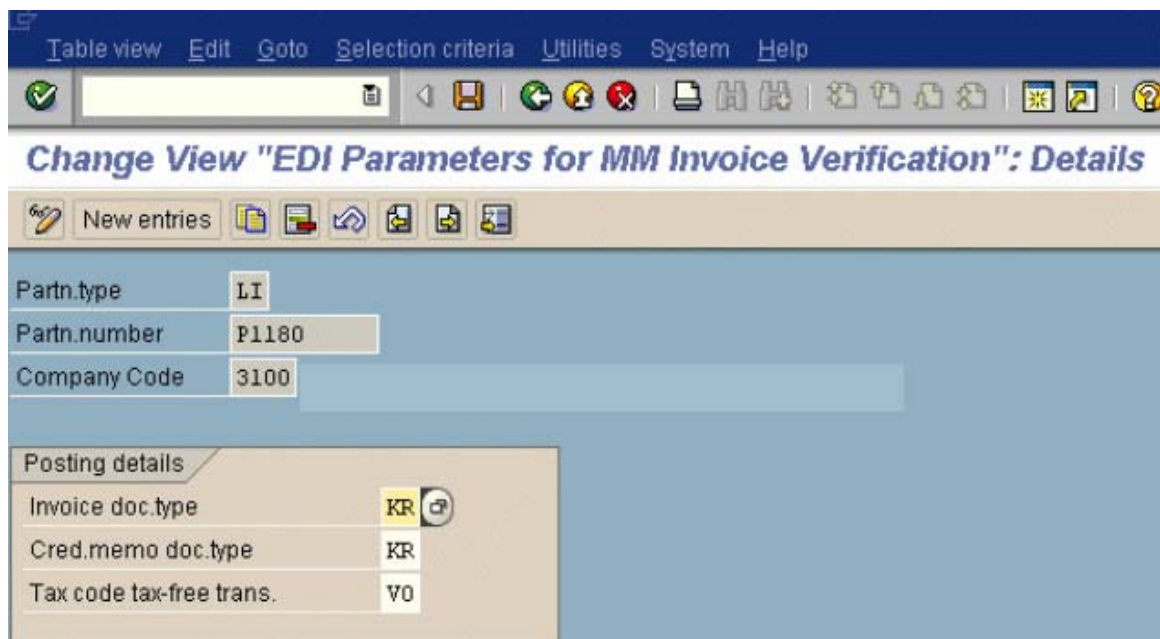
Optional MM Customizing:

NOTE: This is only necessary for logistics invoice verification.

Materials Management → Logistics Invoice Verification → EDI → Enter Program Parameters



Details



Monitoring

There are several transaction that allow you to monitor the IDoc. First you need to know the IDoc number. You can see the IDoc number in the processing log in the “Header output” screen in the billing document.

You can use transaction WE02 or WE05. Enter the IDoc number in the selection screen.

If you have an error in the IDoc, you could analyze it with transaction WE19