

## **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

You enter the Customer that represents the supplying Sales Organization and not the one that represents the receiving Sales Organization.

### **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

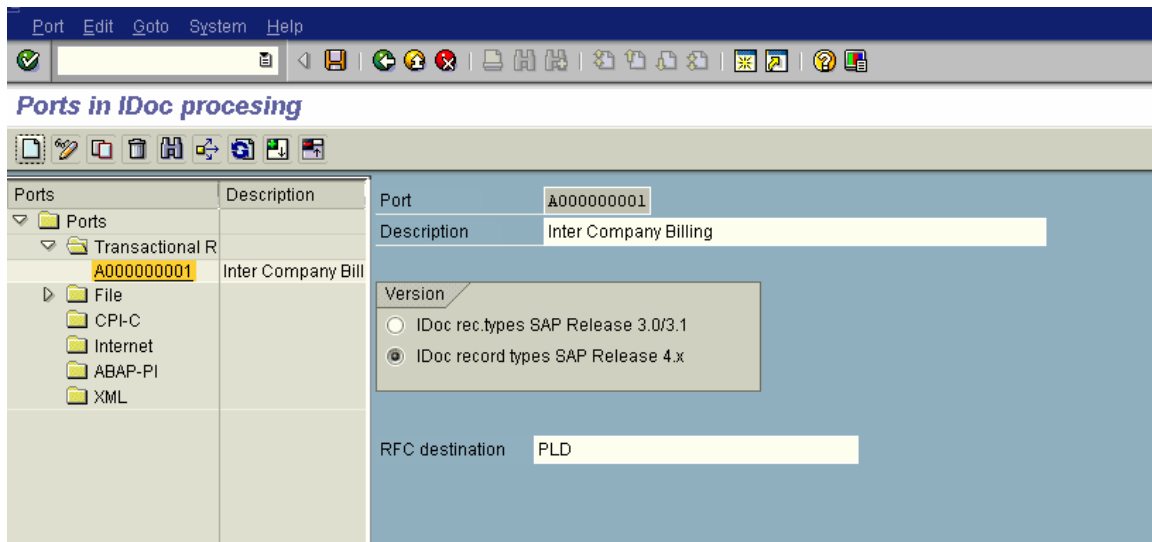
NOTE: There is **NO** need to “connect” vendor to customer in the control screen.

### 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.

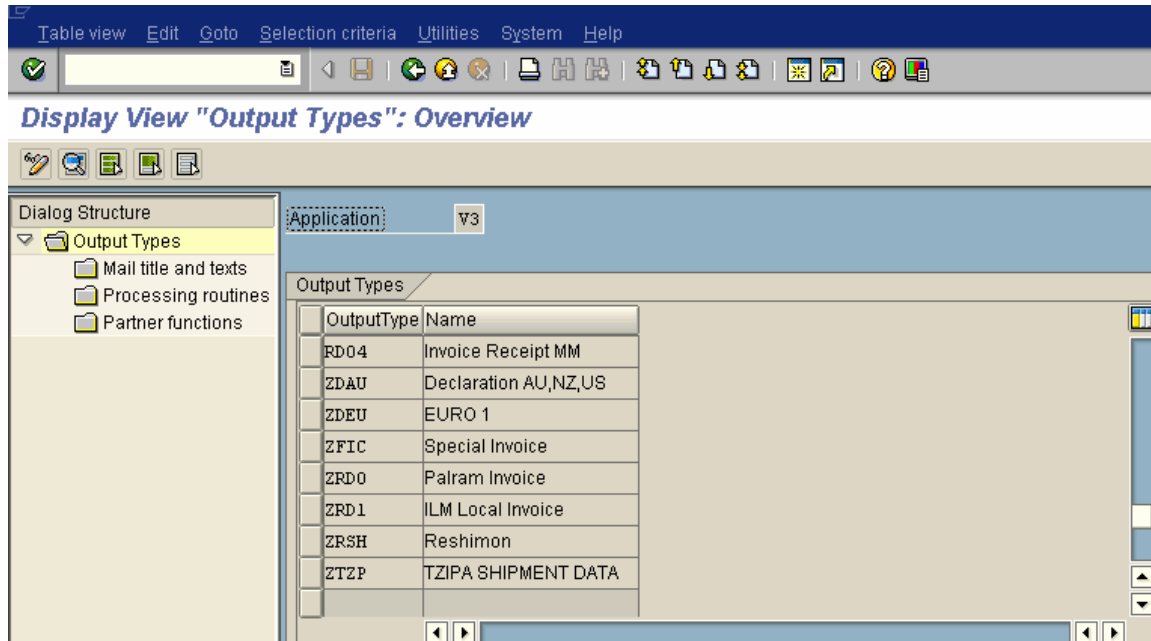
Port name:                   Automatically generated  
Version:                    4.x  
RFC destination:         PLD (This was defined by the basis people).



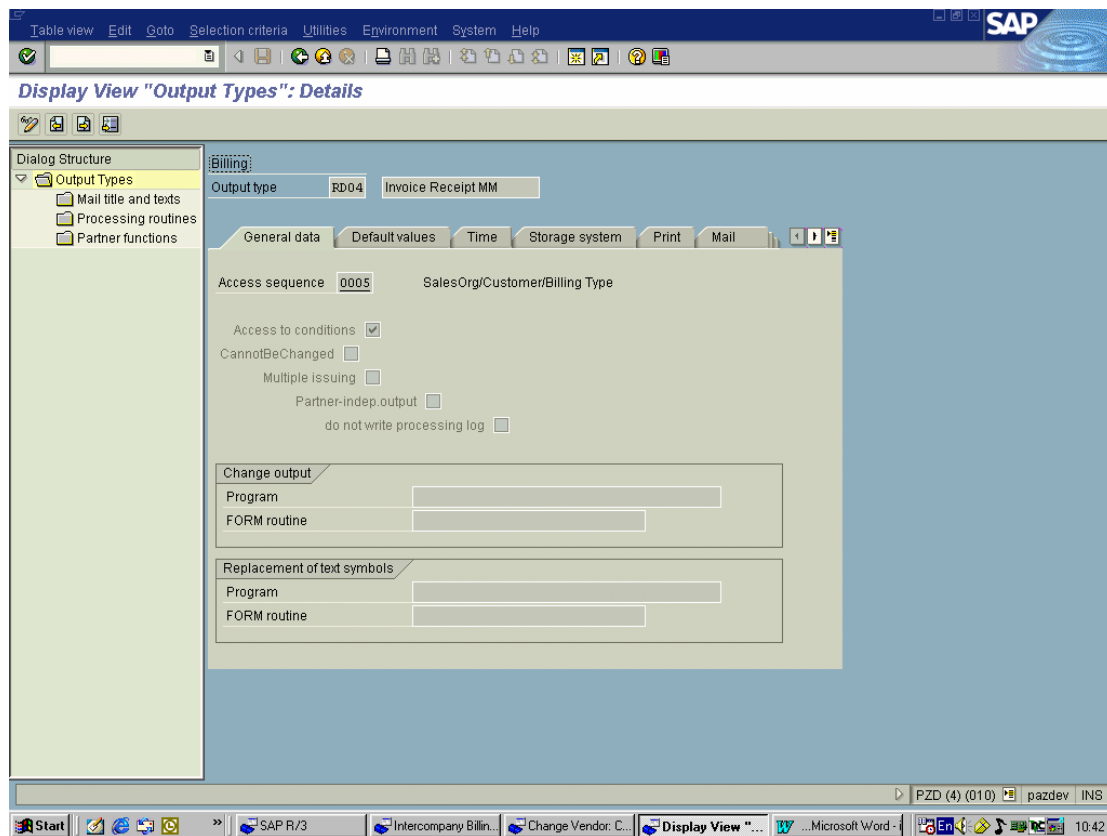
### 4. Maintain output type

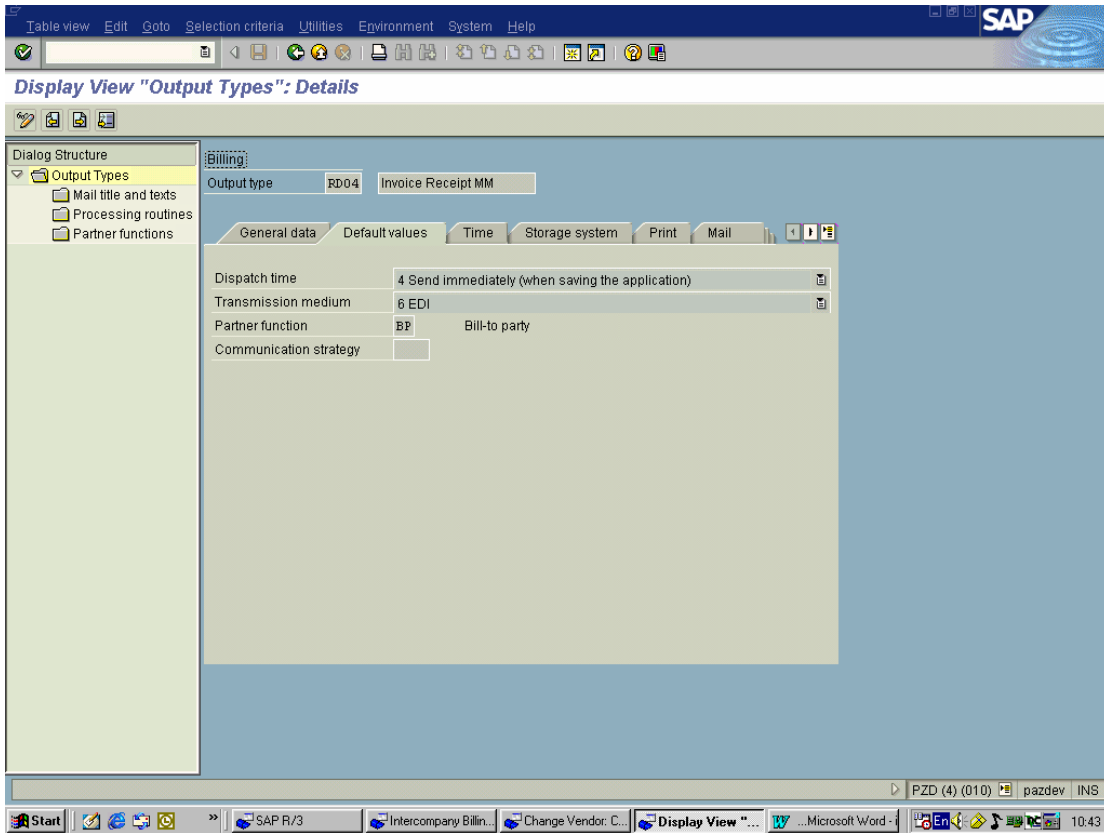
Output Type RD04 - Invoice Receipt MM is a special function, responsible for the execution of the Idoc and will be entered in the Partner Profile later on.

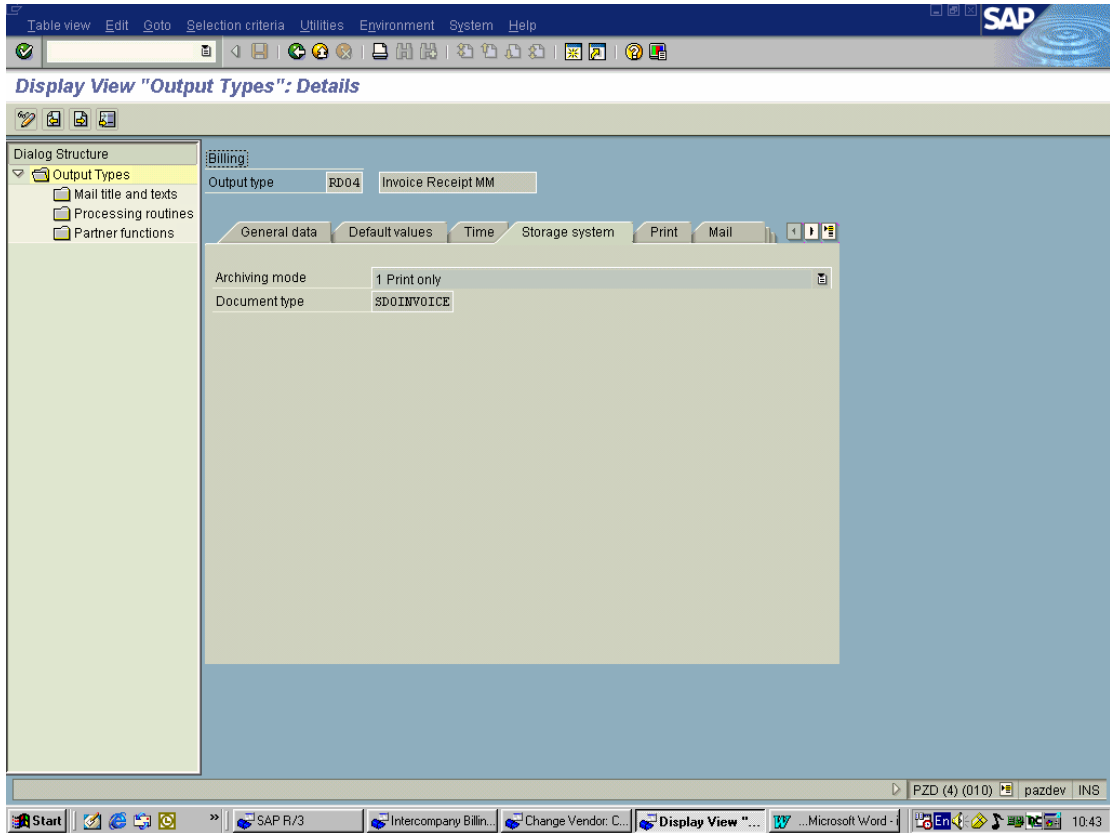
Output type RD04 is maintained: **Img:** Sales and Distribution → Basic functions → Output control → Output Determination → Output Determination Using the Condition Technique → Maintain Output Determination for Billing Documents → Maintain Output Types (T. Code V/40).

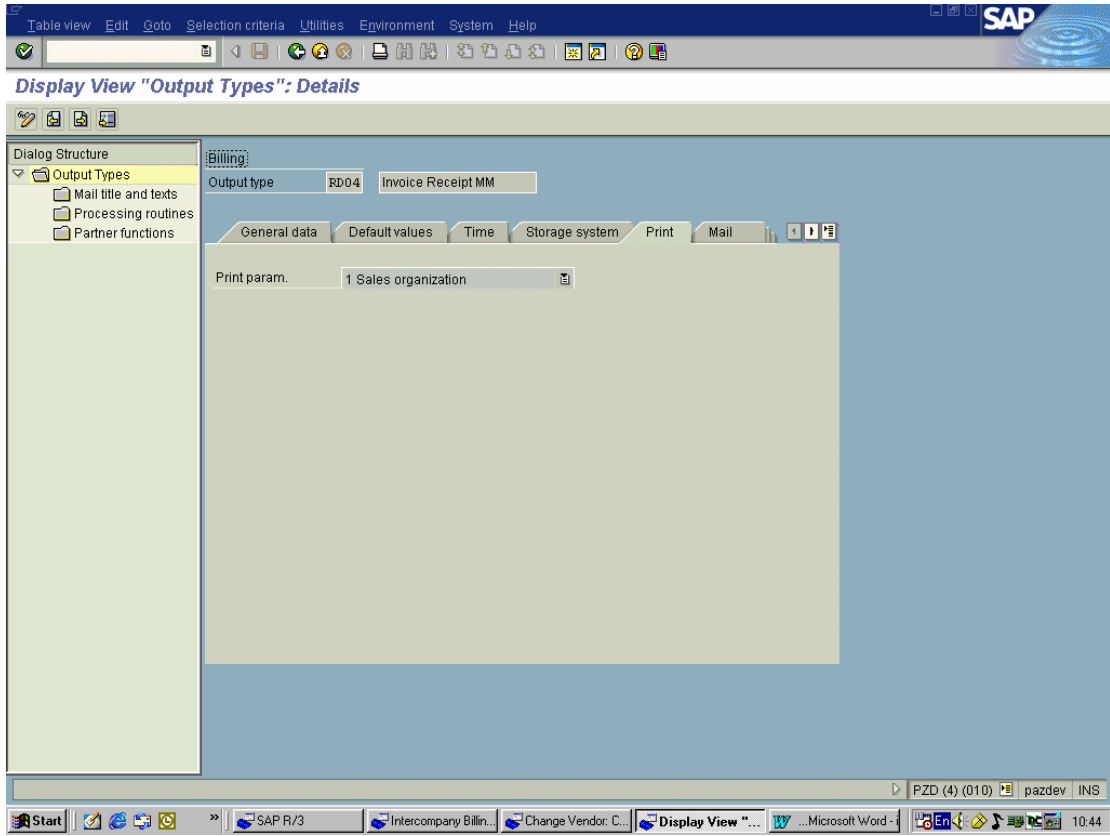


## Details









## Mail title and texts

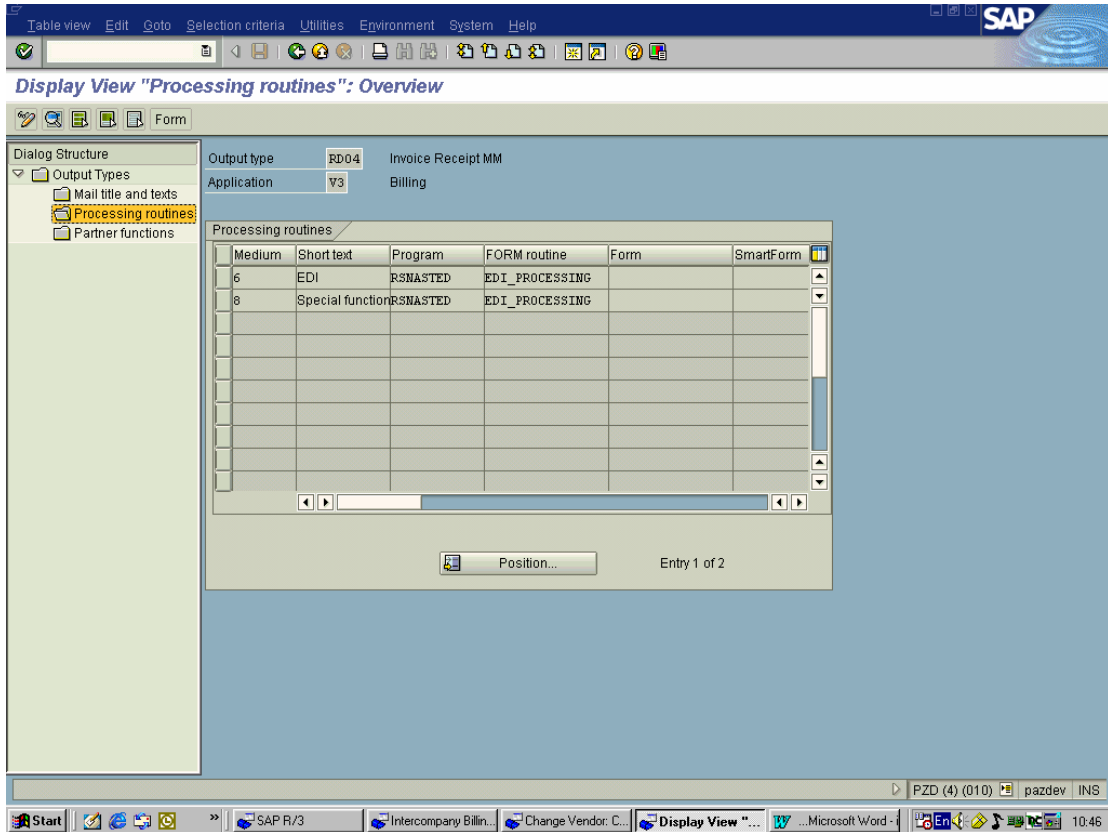
The screenshot displays the SAP 'Display View "Mail title and texts": Overview' window. The interface includes a menu bar at the top with options like 'Table view', 'Edit', 'Goto', 'Selection criteria', 'Utilities', 'Environment', 'System', and 'Help'. Below the menu bar is a toolbar with various icons. The main area is divided into several sections:

- Dialog Structure:** A tree view on the left showing 'Output Types' expanded to 'Mail title and texts'.
- Application:** Set to 'V3'.
- Billing:** Set to 'Invoice Receipt MM'.
- Output type:** Set to 'RD04'.
- Mail title and texts table:** A table with columns for 'Language' and 'Document title'. It contains three entries:

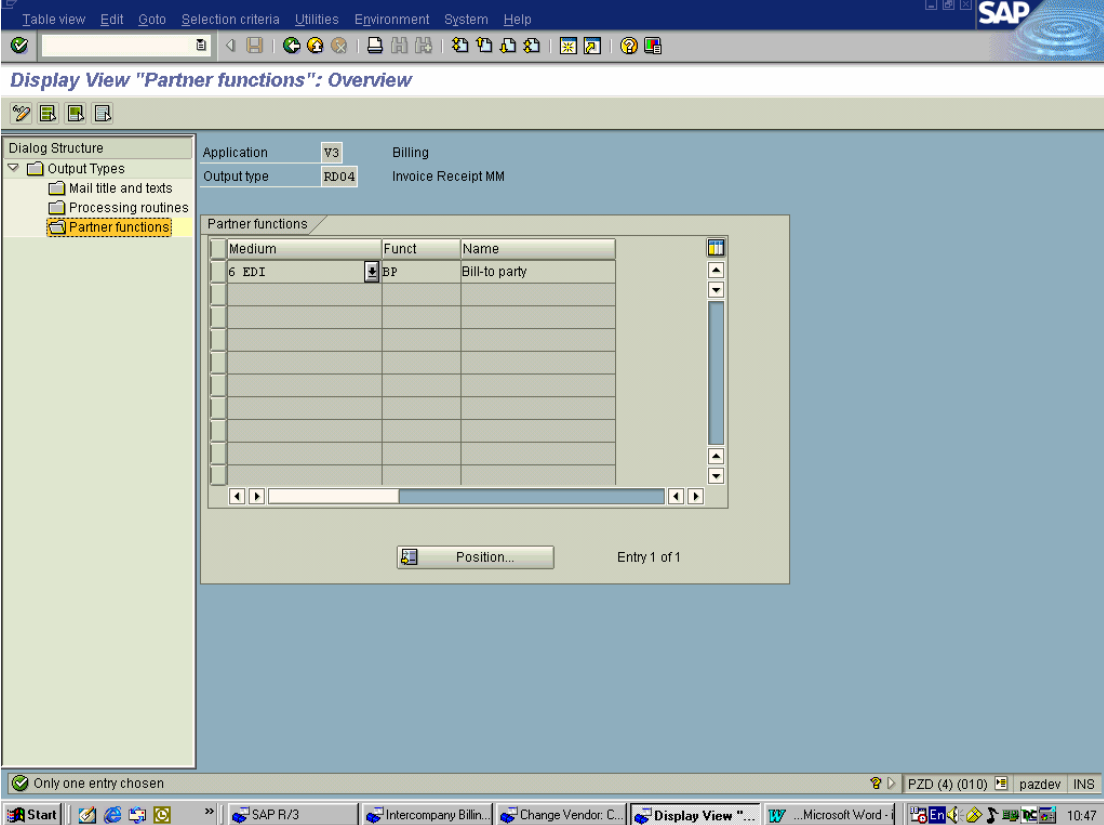
Language	Document title
HE	<input checked="" type="checkbox"/> סוג גישה עבור פרמטרי הדפסה והצעה
DE	<input checked="" type="checkbox"/> Zugriffsart für Druckparameter und Vorschlag
EN	<input checked="" type="checkbox"/> Access Type for Print Parameter and Proposal
- Position...:** A button at the bottom of the table area.
- Entry 1 of 3:** A label indicating the current position in the list.

The Windows taskbar at the bottom shows the 'Start' button, several open applications including 'SAP R/3', 'Intercompany Billin...', 'Change Vendor. C...', 'Display View ...', and 'Microsoft Word', along with the system clock showing '10:46'.

# Processing routines



## Partner functions



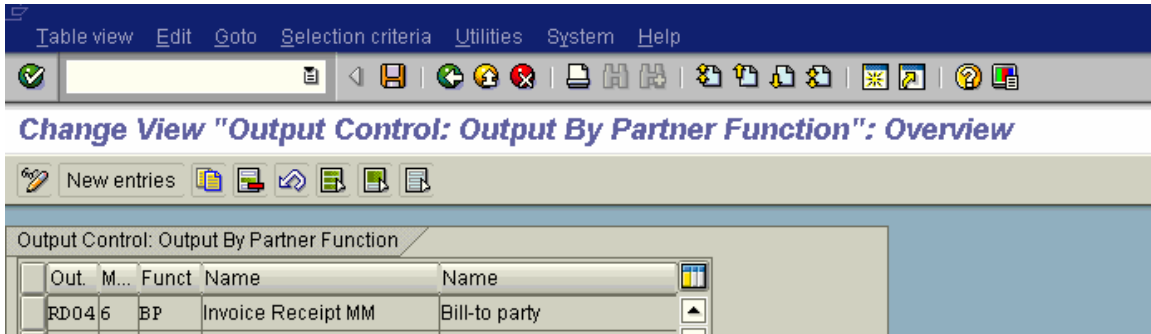
The screenshot shows the SAP Display View for 'Partner functions' in an overview mode. The interface includes a menu bar at the top with options like 'Table view', 'Edit', 'Goto', 'Selection criteria', 'Utilities', 'Environment', 'System', and 'Help'. Below the menu bar is a toolbar with various icons. The main area is titled 'Display View "Partner functions": Overview'. On the left, there is a 'Dialog Structure' pane with a tree view containing 'Output Types', 'Mail title and texts', 'Processing routines', and 'Partner functions'. The 'Partner functions' node is selected. The main content area displays a table with the following data:

Medium	Funct	Name
6 EDI	BP	Bill-to party

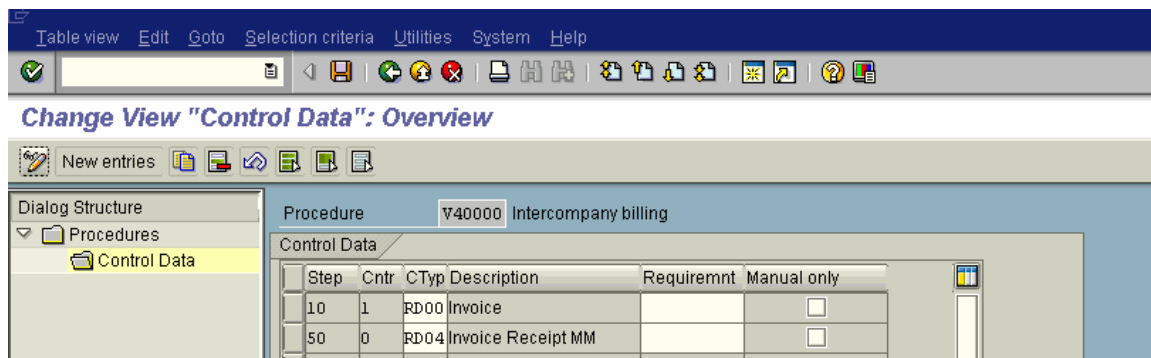
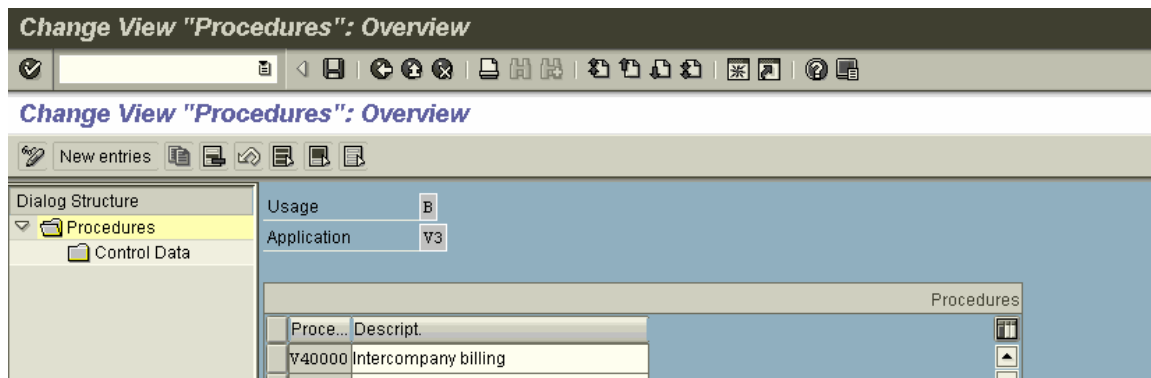
Below the table, there is a 'Position...' button and the text 'Entry 1 of 1'. The status bar at the bottom indicates 'Only one entry chosen' and shows the user 'pazdev' in the 'INS' role. The Windows taskbar at the very bottom shows the Start button and several open applications, including 'SAP R/3', 'Intercompany Billin...', 'Change Vendor: C...', 'Display View ...', and 'Microsoft Word ...'. The system clock shows the time as 10:47.

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

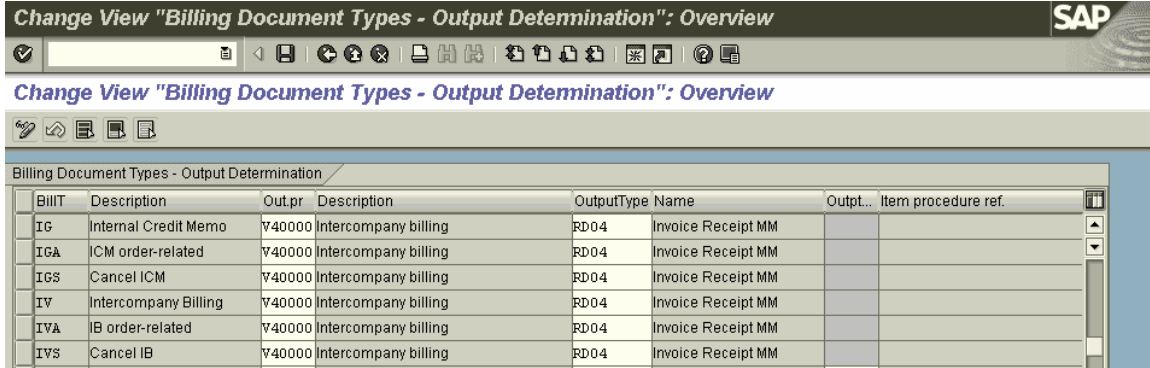
Assign Output Types To Partner Functions



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		
IYA	IB order-related	V40000	Intercompany billing	RD04	Invoice Receipt MM		
IYS	Cancel IB	V40000	Intercompany billing	RD04	Invoice Receipt MM		

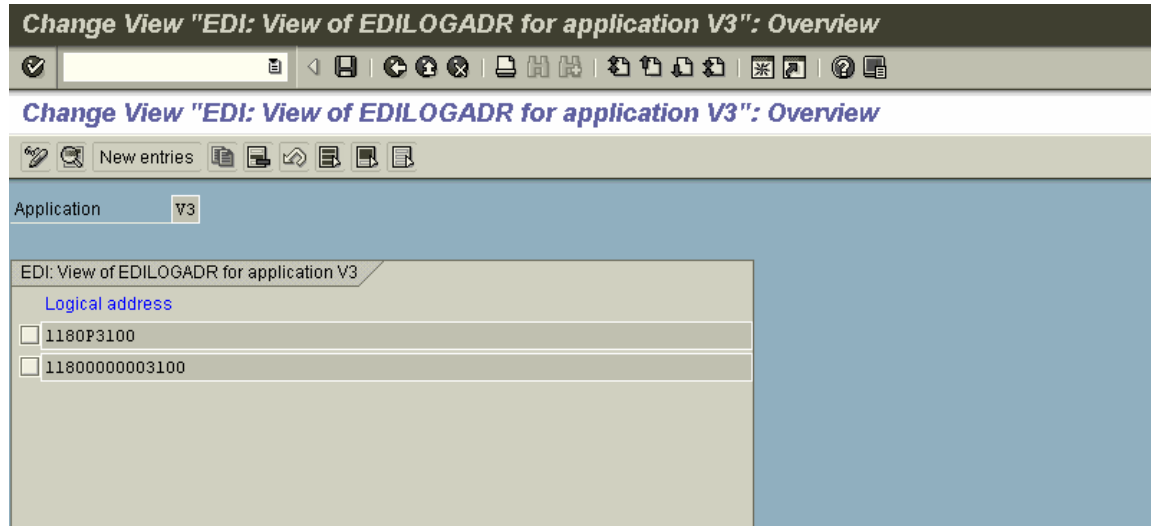
### Master Data

Maintain output Master Data

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

## 5. Create Logical Address

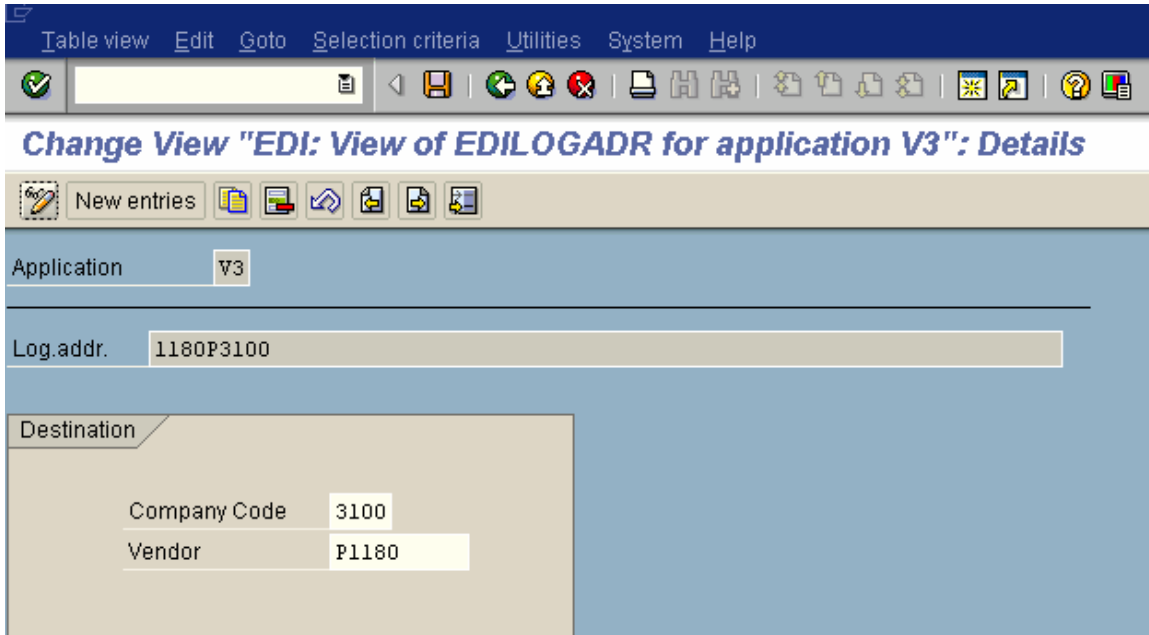
Img: Sales and Distribution → Billing → Intercompany Billing → Automatic Posting To Vendor Account (SAP-EDI) → Assign vendor. (T. Code WEL1)



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

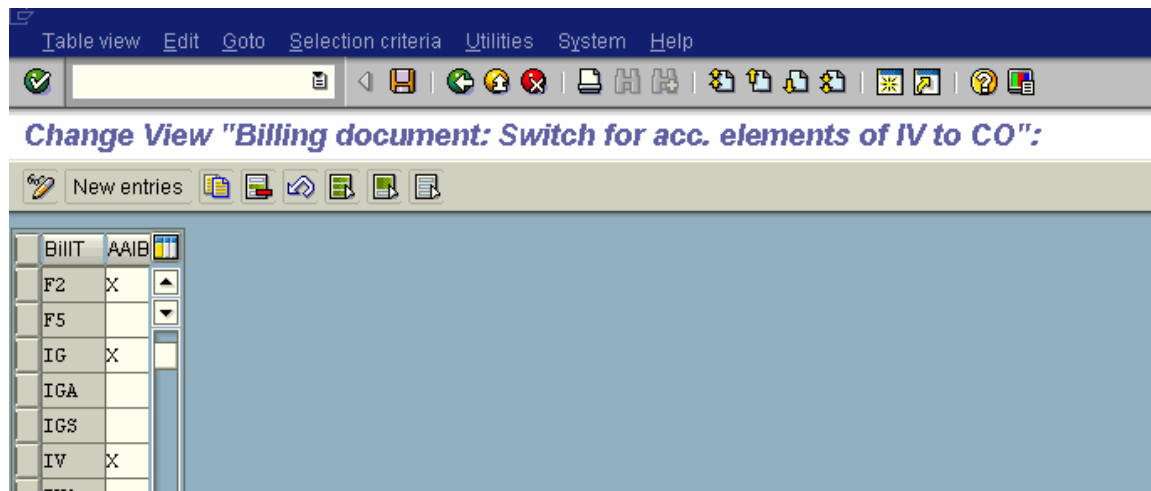
**Note:** If the receiving Customer is a numeric number you must add zeros between the Company code and Customer number so the Logical Address will be 14 digits. E.g if the customer number was 3100, than the logical address would have been 11800000003100 as can be seen in the second line. (In our case 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.



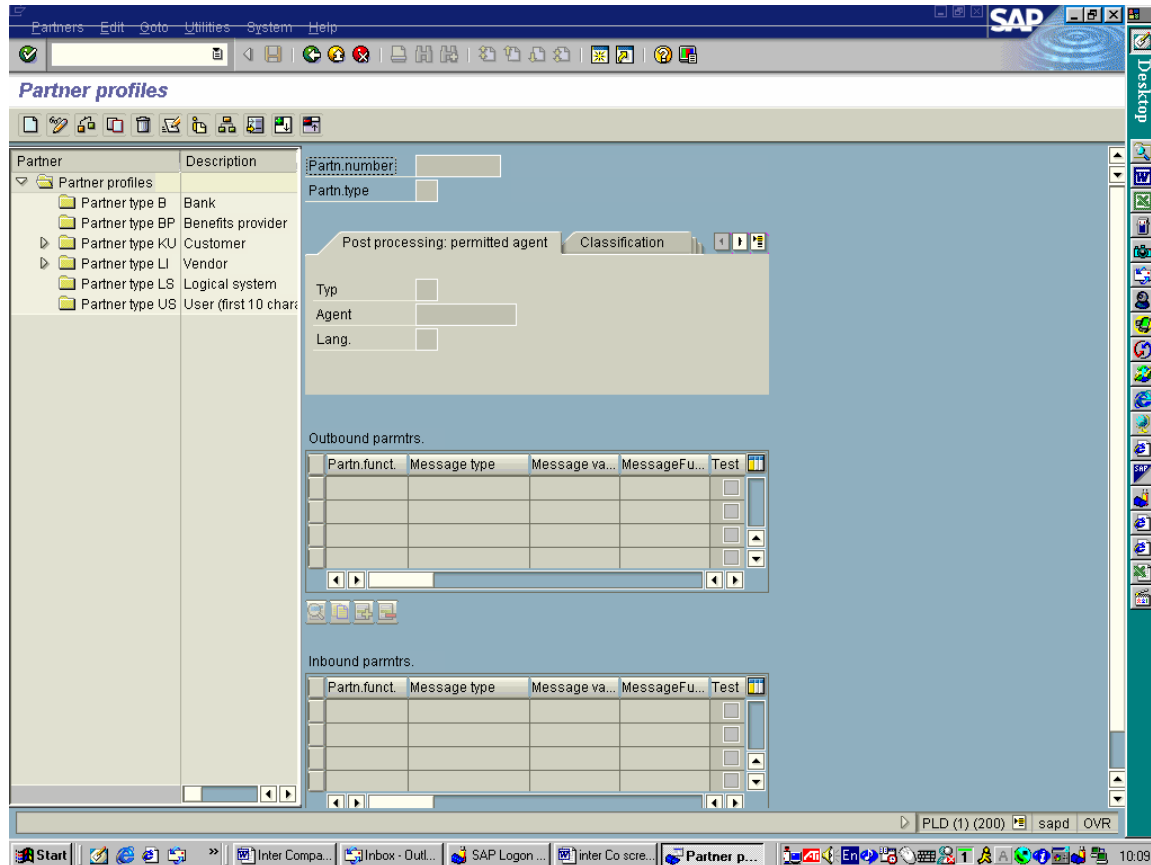
It is also necessary to activate the account assignment.

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)

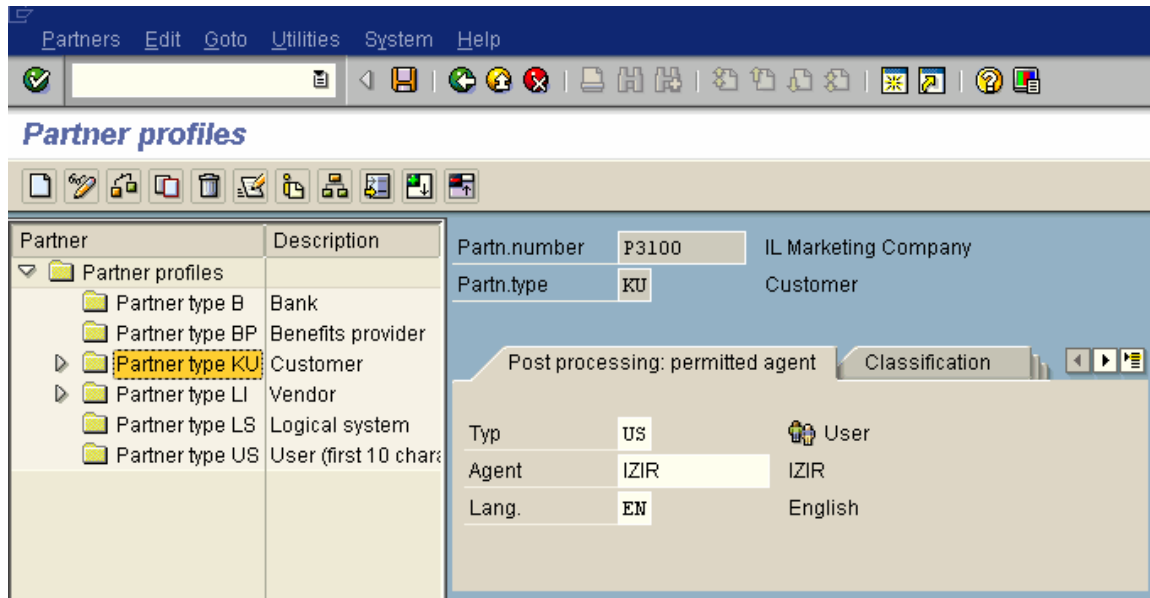



**Customer:**

Put cursor on Partner type KU and press create.

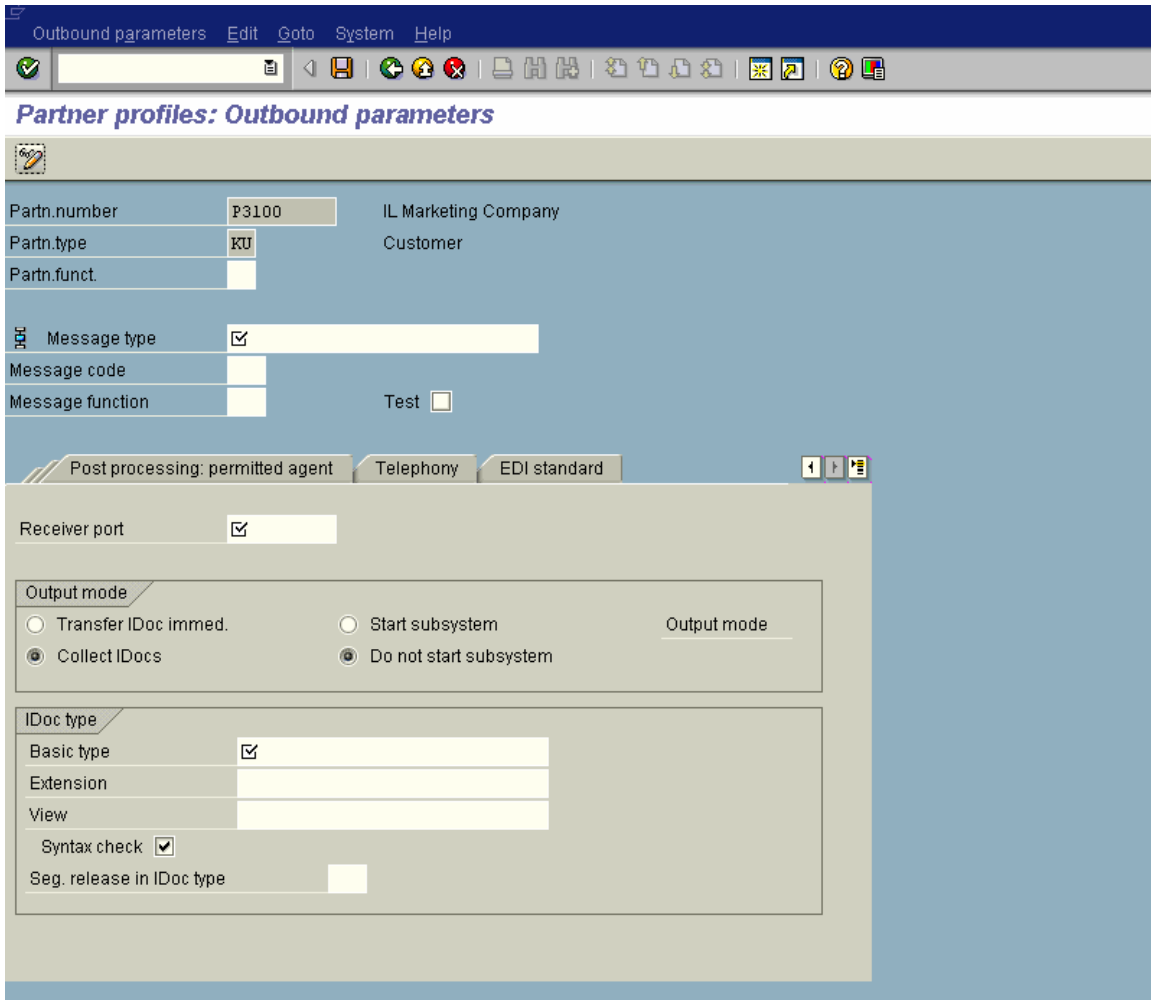
Enter typ, Agent & Lang,

**SAVE**



Press  in outbound paratrs. Section, to maintain detail screens

The following screen will appear.



The screenshot shows the SAP 'Outbound parameters' screen. The title bar includes 'Outbound parameters', 'Edit', 'Goto', 'System', and 'Help'. The main area is titled 'Partner profiles: Outbound parameters'. It contains several input fields and checkboxes. The 'Partn.number' field is filled with 'P3100' and 'IL Marketing Company' is displayed next to it. 'Partn.type' is 'KU' and 'Customer' is displayed. 'Partn.funct.' is empty. Under the 'Message type' section, 'Message type' has a checked checkbox and a text field containing 'INVOIC'. 'Message code' is empty. 'Message function' is empty, with a 'Test' checkbox. Below this, there are tabs for 'Post processing: permitted agent', 'Telephony', and 'EDI standard'. The 'Receiver port' checkbox is checked. The 'Output mode' section has two radio button groups: 'Transfer IDoc immed.' (unselected) and 'Collect IDocs' (selected); 'Start subsystem' (unselected) and 'Do not start subsystem' (selected). The 'IDoc type' section has 'Basic type' checked, 'Extension' empty, 'View' empty, 'Syntax check' checked, and 'Seg. release in IDoc type' empty.

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 Information:**
  - Partn.number: P3100 (IL Marketing Company)
  - Partn.type: KU (Customer)
  - Partn.funct.: BP (Bill-to party)
- Message Information:**
  - 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.

The screenshot shows the SAP 'Inbound parameters' configuration screen for partner profile P1180. The window title is 'Inbound parameters' and the menu bar includes 'Edit', 'Goto', 'System', and 'Help'. The main title is 'Partner profiles: Inbound parameters'. The form contains the following fields and options:

- Partn.number: P1180 (Israel Mfg. Plant)
- Partn.type: LI (Vendor)
- Partn.funct.: (empty)
- Message type: INVOIC (Invoice / billing document)
- Message code: FI
- Message function: (empty) Test
- Process code: INVF (INVOIC FI Invoice receipt (Fin..))
- Syntax check:
- Processing by function module:
  - Trigger by background program
  - Trigger immediately

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 'Inbound parameters' configuration screen for a vendor. The window title is 'Inbound parameters' and the menu bar includes 'Edit', 'Goto', 'System', and 'Help'. The title bar also contains standard window control icons. The main content area is titled 'Partner profiles: Inbound parameters' and contains the following fields:

Partn.number	P1180	Israel Mfg. Plant
Partn.type	LI	Vendor
Partn.funct.		
Message type	INVOIC	Invoice / billing document
Message code	FI	
Message function		Test <input type="checkbox"/>

Below these fields are three tabs: 'Inbound options', 'Post processing: permitted agent', and 'Telephony'. The 'Inbound options' tab is active and contains:

Process code	INVF	INVOIC FI Invoice receipt (Fin...
Syntax check	<input checked="" type="checkbox"/>	

At the bottom, there is a section titled 'Processing by function module' with two radio button options:

- Trigger by background program
- Trigger immediately

**Partner profiles: Inbound parameters** SAP

Partner profiles: Inbound parameters

Partn.number: P1180 Israel Mfg. Plant  
Partn.type: LI Vendor  
Partn.funct:

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

Inbound options | **Post processing: permitted agent** | Telephony

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

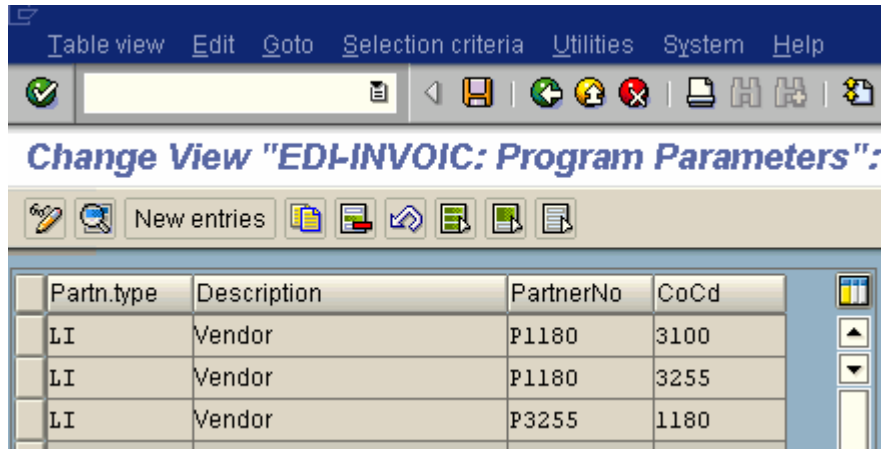
Processing by function module

- Trigger by background program
- Trigger immediately

PLD (1) (200) | sapd | OVR

## 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)

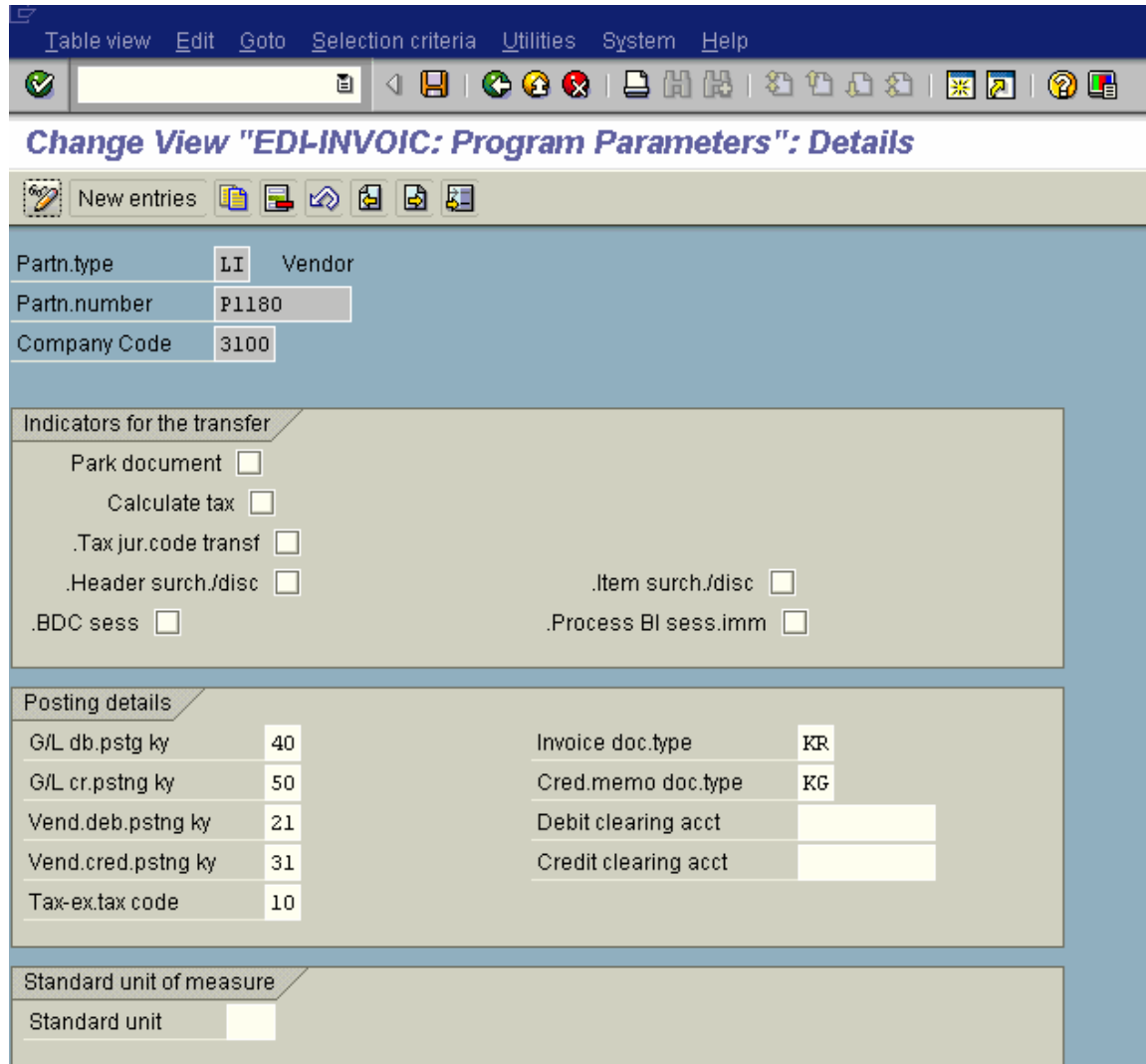


The screenshot shows a SAP table view titled "Change View 'EDI-INVOIC: Program Parameters'". The table has four columns: Partn.type, Description, PartnerNo, and CoCd. It contains three rows of data.

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

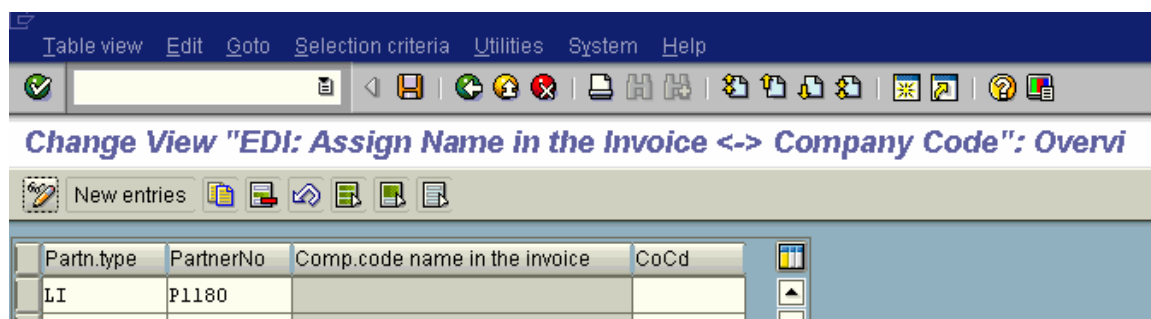


The screenshot shows the SAP 'Change View "EDI-INVOIC: Program Parameters": Details' window. The interface includes a menu bar (Table view, Edit, Goto, Selection criteria, Utilities, System, Help) and a toolbar with various icons. The main content area is divided into several sections:

- Partn.type**: LI Vendor
- Partn.number**: P1180
- Company Code**: 3100
- Indicators for the transfer**: A group of checkboxes including Park document, Calculate tax, .Tax jur.code transf, .Header surch./disc, .BDC sess, .Item surch./disc, and .Process BI sess.imm.
- Posting details**: A table of posting keys and document types.

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**: A section with a 'Standard unit' field.

## Assign Company Code for EDI Incoming Invoice

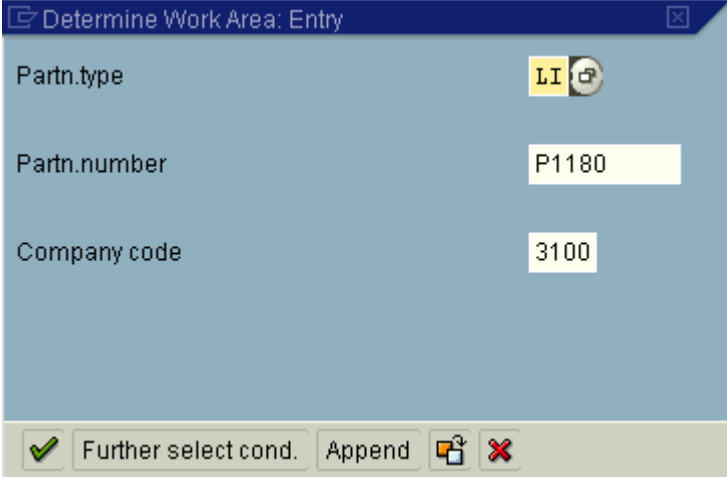


The screenshot shows the SAP 'Change View "EDI: Assign Name in the Invoice <-> Company Code": Overvi' window. The interface includes a menu bar (Table view, Edit, Goto, Selection criteria, Utilities, System, Help) and a toolbar. The main content area features a table with the following data:

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

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

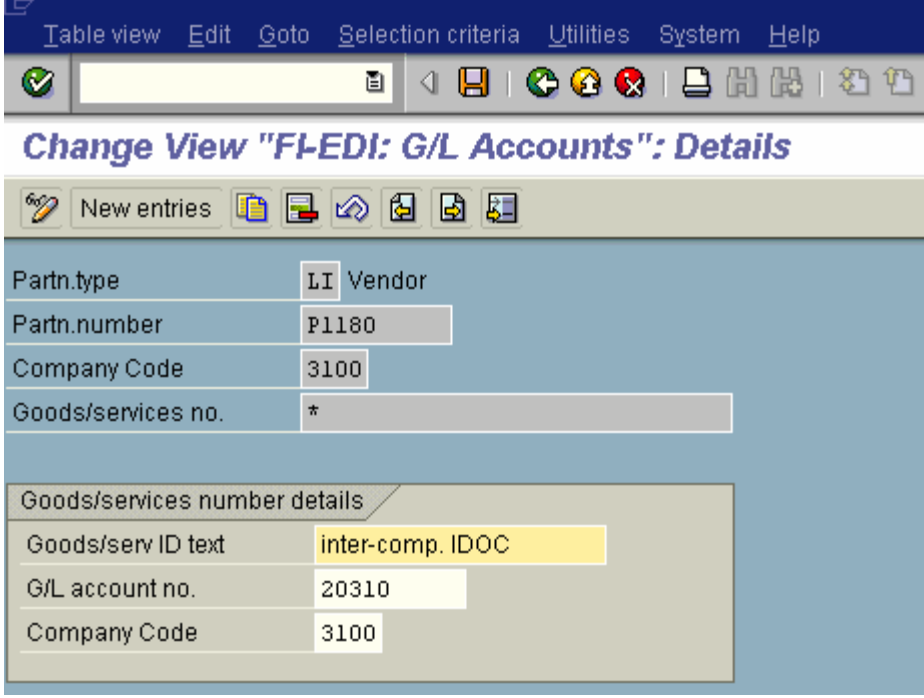
## Assign G/L Accounts for EDI Procedures (T. Code OBCB)



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". It 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

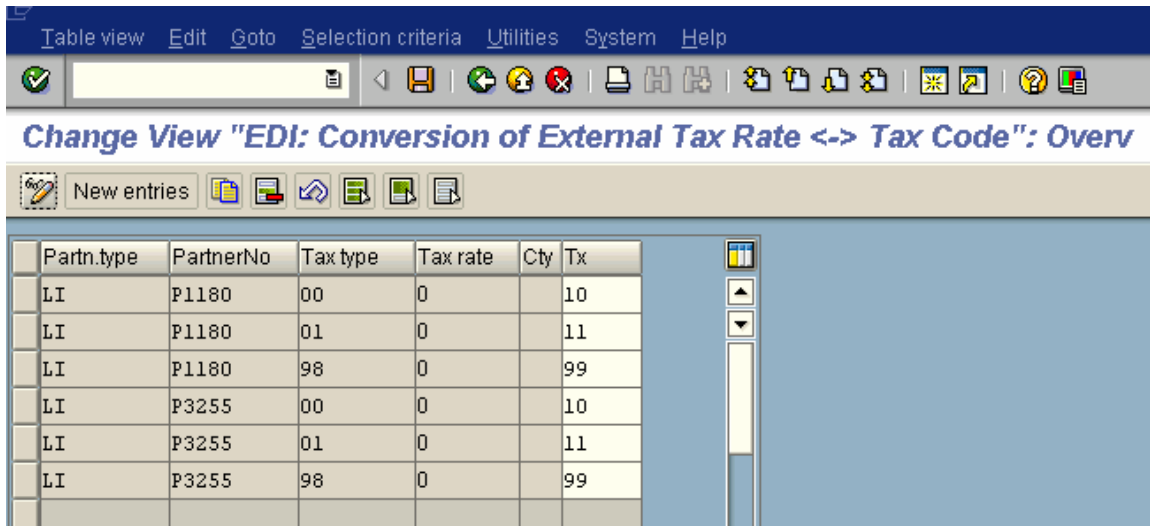
NOTE:

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.

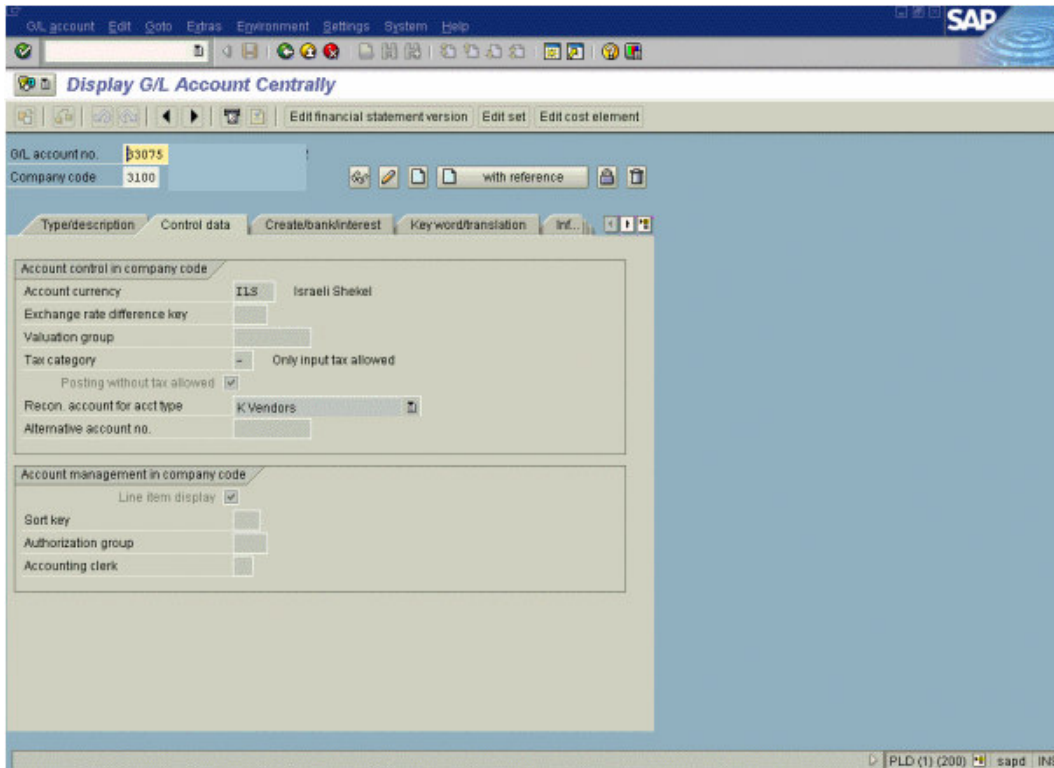
Tax type = Output Tax  
Tx = Input Tax



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.

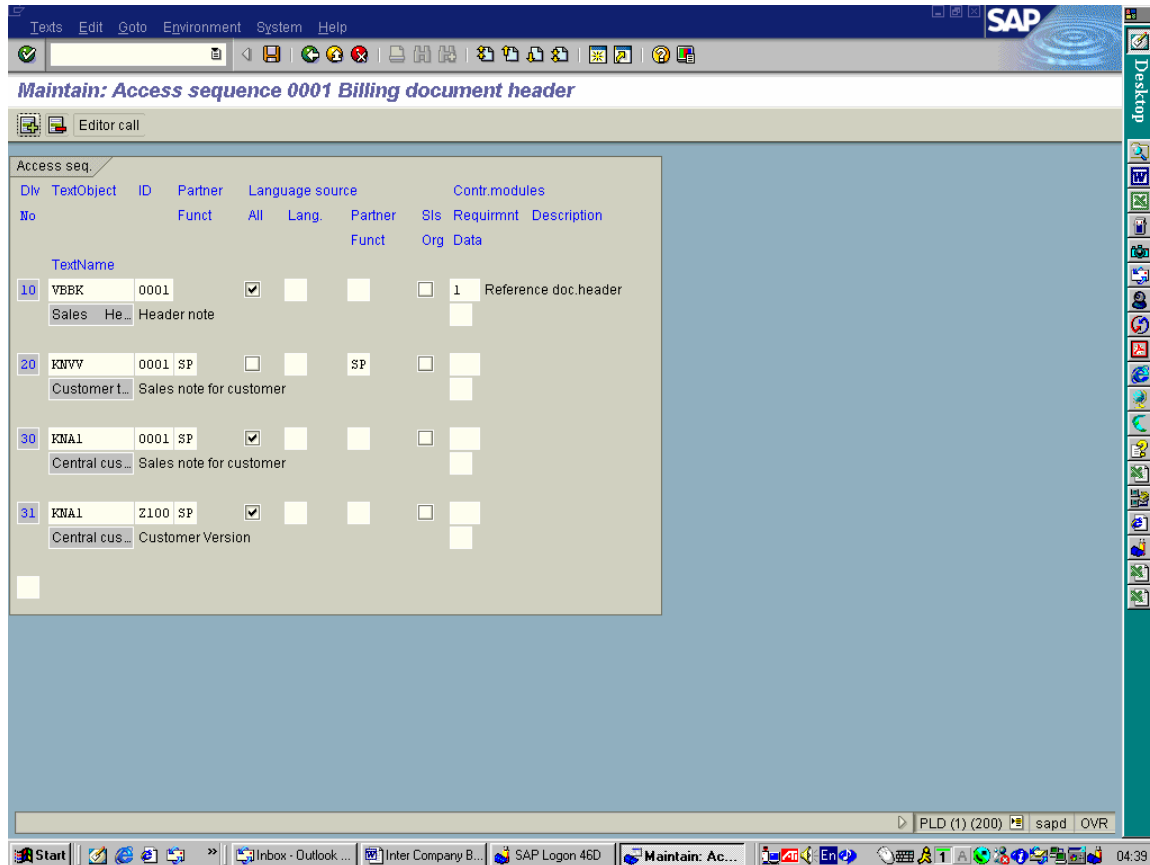
Make sure manual posting is allowed for the G/L account. (“Create/Bank/Interest” screen).

## 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.



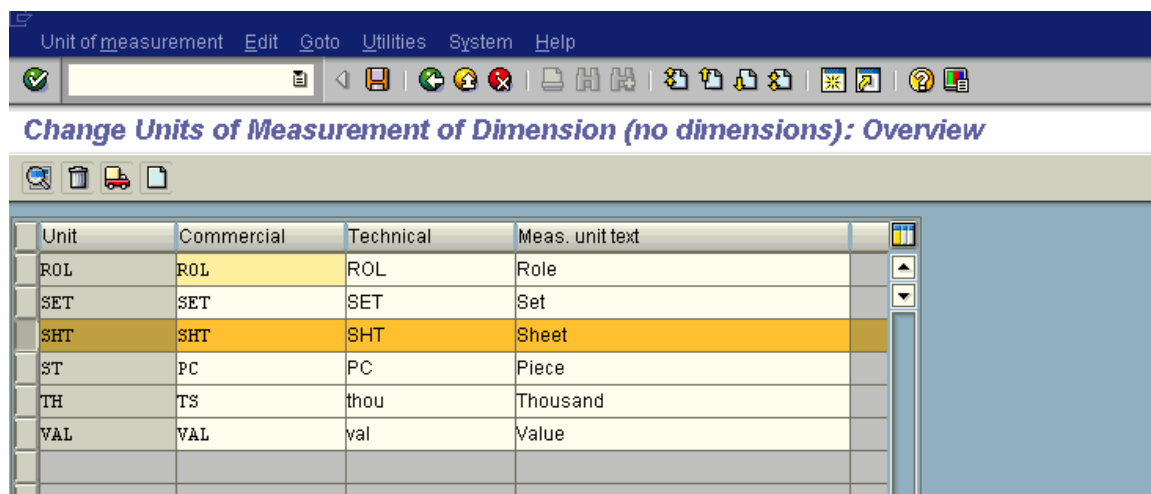
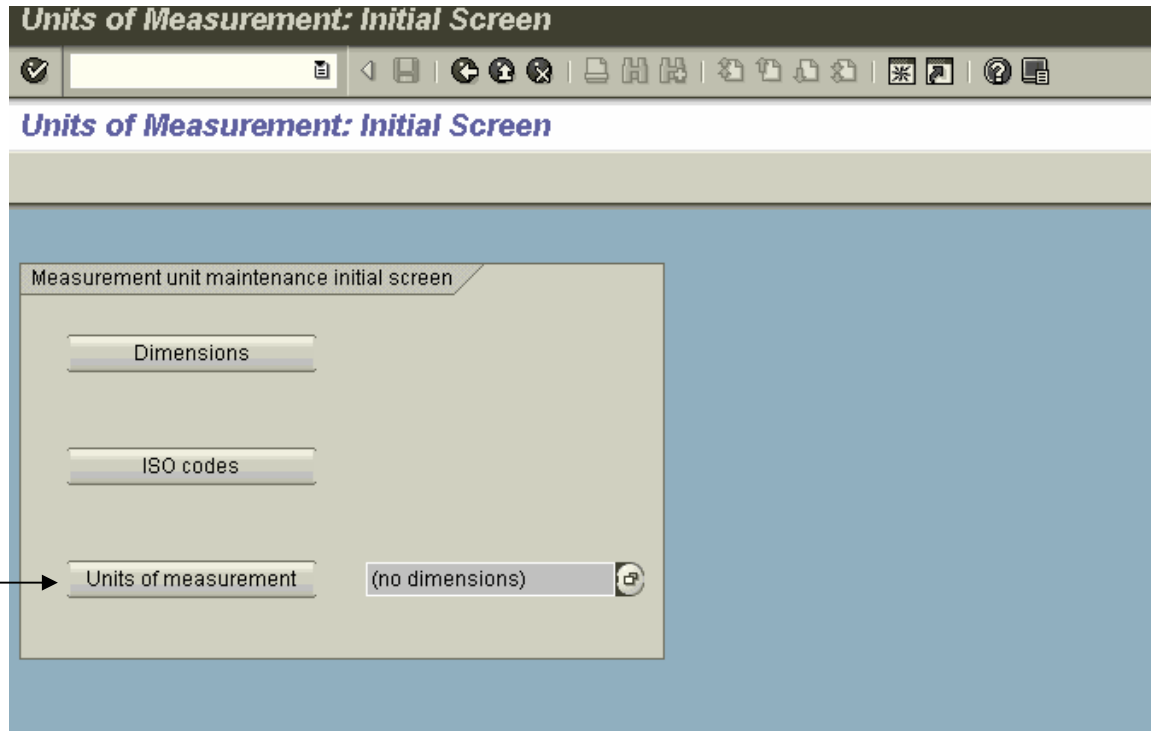
### Item Text

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)



## Details

The screenshot shows the SAP interface for 'Change Units of Measurement of Dimension (no dimensions): Details'. The window title is 'Unit of measurement' and the SAP logo is visible in the top right corner. The main content area is divided into several sections:

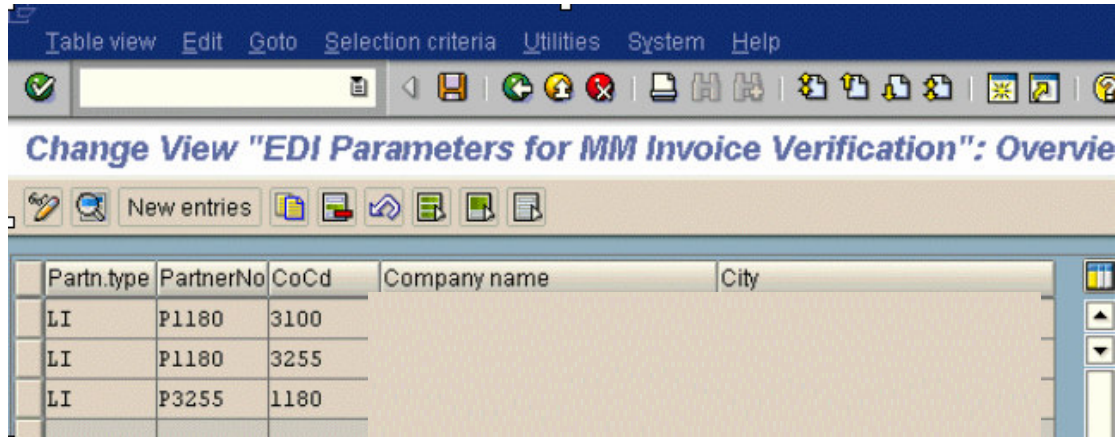
- int.measurement unit:** SHT
- Display:**
  - Commercial: SHT
  - Technical: SHT
  - Decimal places: [ ]
  - float. point exp.: [ ]
- Measurement unit text:**
  - sheet
  - Sheet
- Conversion:**
  - Numerator: 1
  - Denominator: 1
  - Exponent: 0
  - Additive constant: 0.000000
  - Decimal pl. rounding: [ ]
  - Unit of meas.family: [ ]
- ALE/EDI:**
  - ISO code: PCE
  - Primary code:
- Application parameters:**
  - Commercial meas.unit:
  - Value-based commt:

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

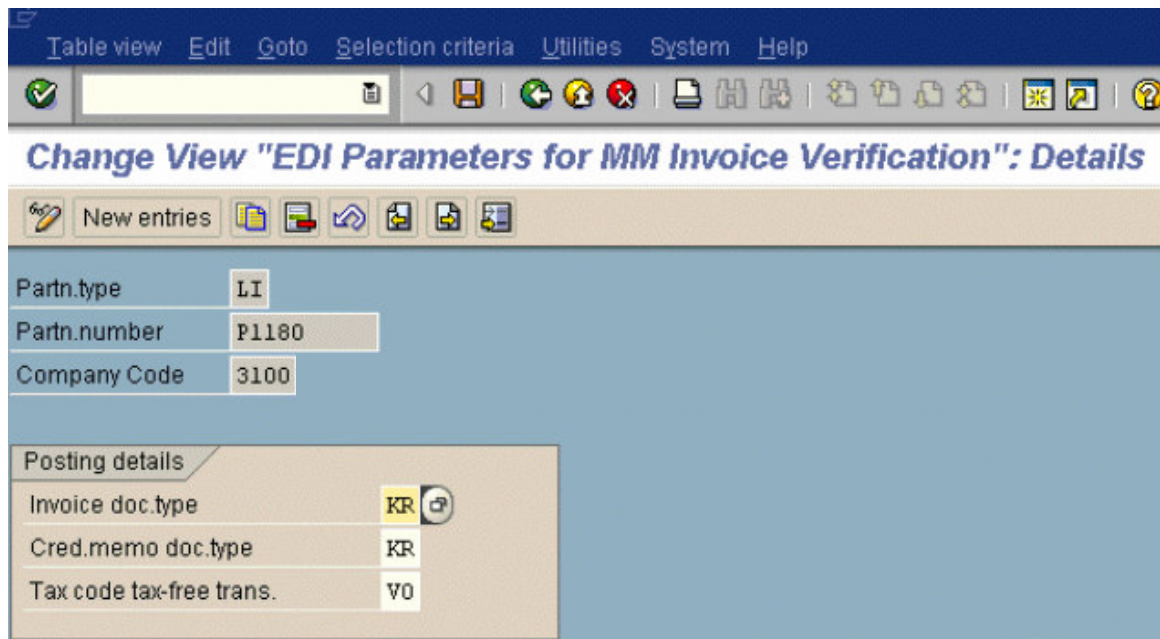
Optional MM Customizing:

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