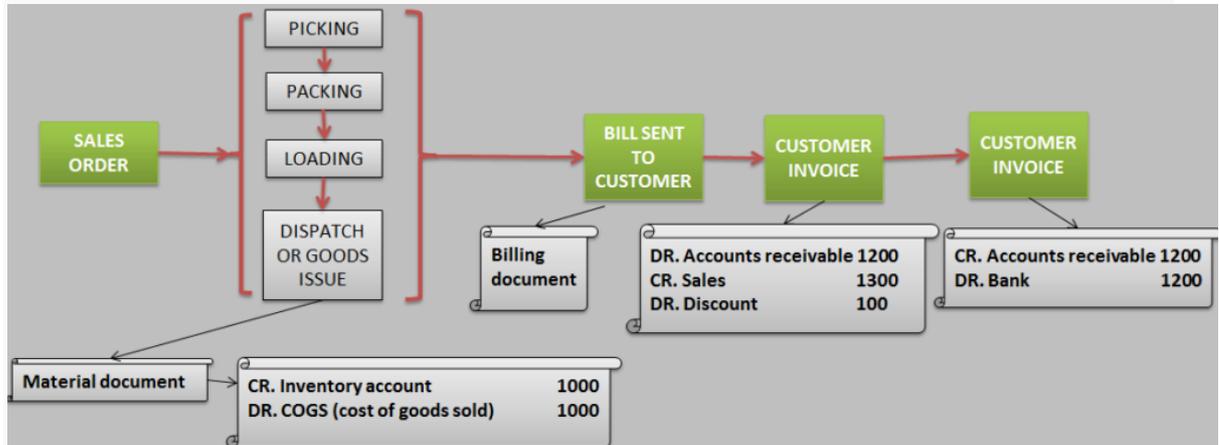
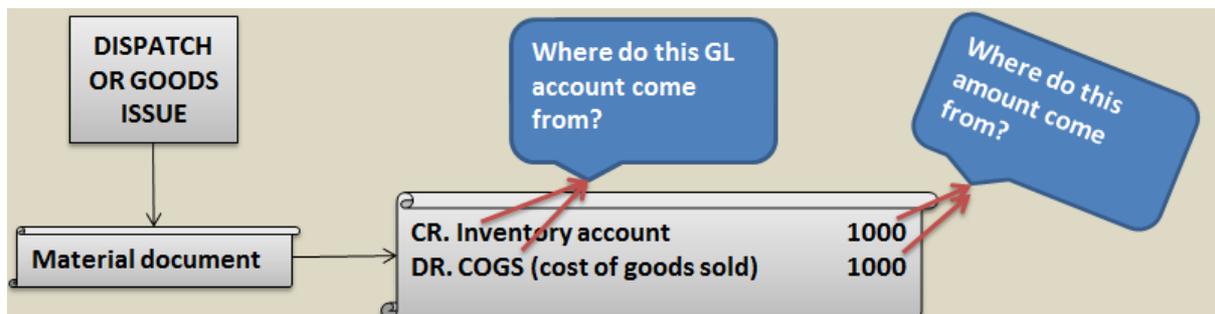


## SD-FI Integration



When goods are dispatched, finance document as shown below is posted automatically. Question is how system determines the GL account and amount to post the accounting document?



Since goods are moved hence material document is created. Corresponding finance document gets created as a result of MM-FI integration. GL account for inventory account is picked from OBYC setting (transaction key BSX). GL account for COGS is picked from OBYC setting (transaction key GBB and account modifier VAX).

**Inventory & COGS is always valued at standard cost of the material.**

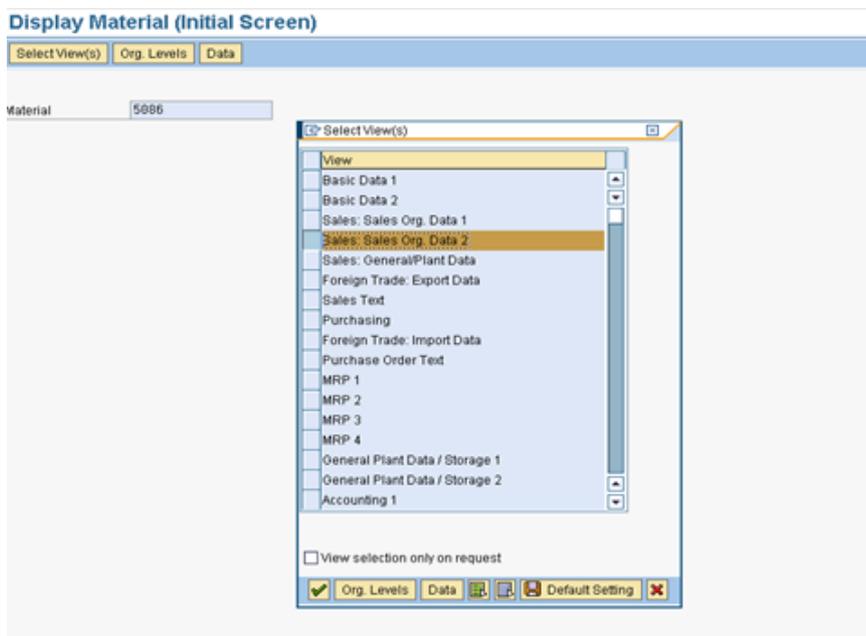
## FI-SD Configuration Pre-requisites

The pre-requisites for carrying out this configuration are as follows:

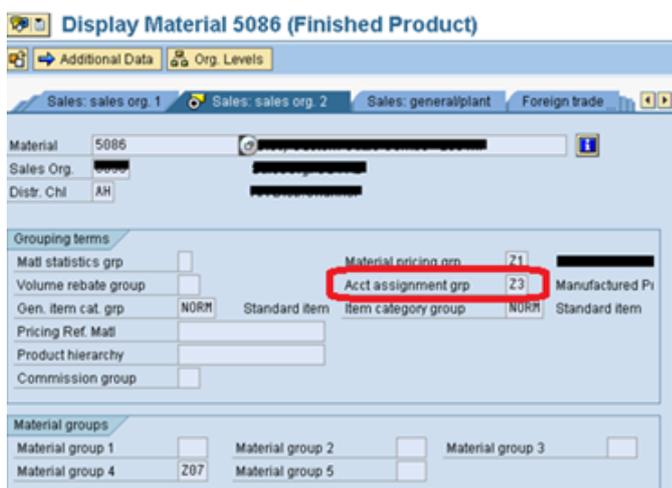
- Material Master
- Customer Master
- Pricing Procedures
- Condition Records
- G/L Accounts

### Material Master

The material master can be displayed using t-code MM03. The menu path for MM03 is SAP Easy Access Menu -> Logistics -> Materials Management -> Material Master -> Material -> Display. In the material master, the relevant view is Sales: Sales Org. Data 2 as shown below:



In the view, the relevant field is the Acct assignment group. This is one of the criteria for G/L account determination. The materials which have the same account assignment group are grouped together to post to the same G/L accounts.



## Customer Master

The customer master can be displayed using t-code FD03. The menu path for FD03 is SAP Easy Access Menu -> Financial Accounting -> Accounts Receivable -> Master Records -> Display. In the customer master, the relevant data is under the Sales area data section of the customer master. Select the Billing Documents tab.

The screenshot shows the SAP 'Display Customer: Sales Area Data' interface. The 'Billing Documents' tab is active. The 'Accounting' section is highlighted with a red box, showing the 'Acct assgmt group' as 'Z1' and '3 rd. Party Domestic'. Other sections include 'Billing document', 'Delivery and payment terms', and 'Taxes'.

Country	Name	Tax category	Name	Tax c	Description
US	USA	UTXJ	Tax Jurisdict Code	1	Liabie for Taxes

The relevant field is the Acct assignment group. This is also one of the criteria for G\L account determination. The customers who have the same account assignment group are grouped together to post to the same G\L accounts.

## Pricing Procedures

Pricing procedures are used to define the valid condition types for pricing calculation and the sequence in which they should be processed. Other processing data can also be specified for each condition type such as, if the condition type is statistical, specification of a calculation type different from the one mentioned in the condition type configuration etc.

The pricing procedures can be seen in t-code V/08. The menu path for V/08 is SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Pricing -> Pricing Control -> Define and Assign Pricing Procedures -> Maintain Pricing Procedures

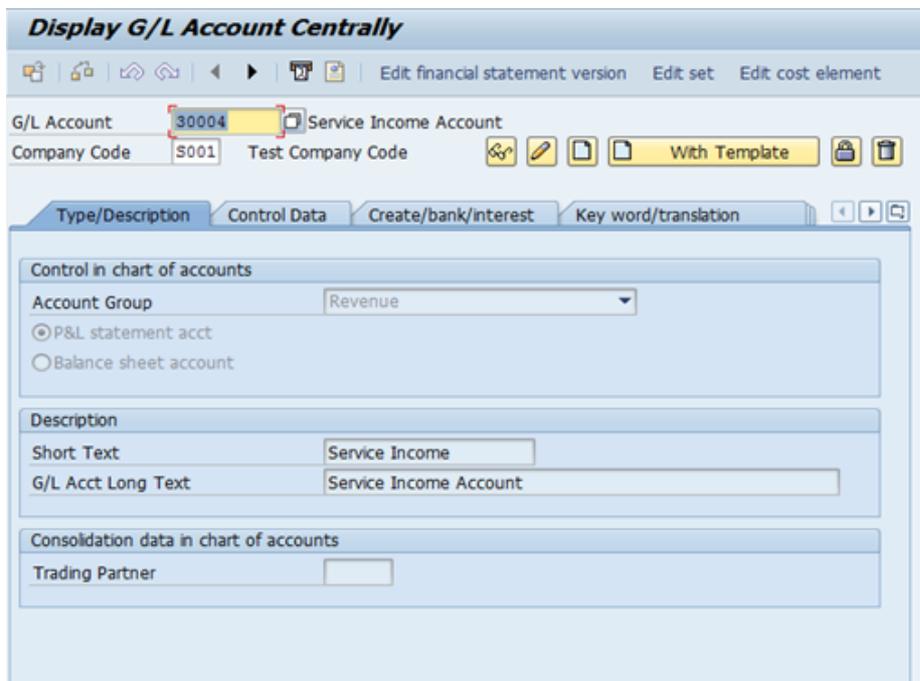


The condition record for condition type PR00 is shown in the screen above. The Sales Organization and Distribution Channel as seen in the screen form the Org level at which the condition record is stored. The condition record does not directly affect the account determination. If for a condition type, the condition record is not maintained, the condition type will not have a value and hence no account determination is needed.

## G/L Accounts

To complete the configuration for account determination, the G/L accounts should already exist in the system.

They can be seen in t-code FS00. The menu path for FS00 is SAP Easy Access Menu -> Accounting -> Financial Accounting -> General Ledger -> Mater Records -> G/L Accounts ->Individual Processing -> Centrally



The screenshot displays the SAP 'Display G/L Account Centrally' interface. At the top, the title bar reads 'Display G/L Account Centrally'. Below the title bar, there are navigation icons and menu options: 'Edit financial statement version', 'Edit set', and 'Edit cost element'. The main data area shows the G/L Account '30004' (highlighted with a red box) and its description 'Service Income Account'. The Company Code is 'S001' and the Test Company Code is also 'S001'. There are icons for search, edit, and print, along with a 'With Template' button. Below this, there are tabs for 'Type/Description', 'Control Data', 'Create/bank/interest', and 'Key word/translation'. The 'Control Data' tab is active, showing the following fields:

- Control in chart of accounts:**
  - Account Group: Revenue (dropdown menu)
  - P&L statement acct
  - Balance sheet account
- Description:**
  - Short Text: Service Income
  - G/L Acct Long Text: Service Income Account
- Consolidation data in chart of accounts:**
  - Trading Partner: (empty field)

## Automatic Account Determination

The accounting entries with respect to the billing will generally result in

- Debit Customer account
- Debit Freight-out account
- Credit Revenue account
- Credit Excise Duty Payable account
- Credit Sales Tax Payable account

Hence, primarily, one side of the account is a Customer and the other is a revenue account. The customer account gets picked up from the customer master data and the revenue account is configured based on certain inputs so that correct account is hit during FI posting. This automatic account determination is configured not only for revenue, but also, other elements like Freight, surcharges, sales deductions etc.

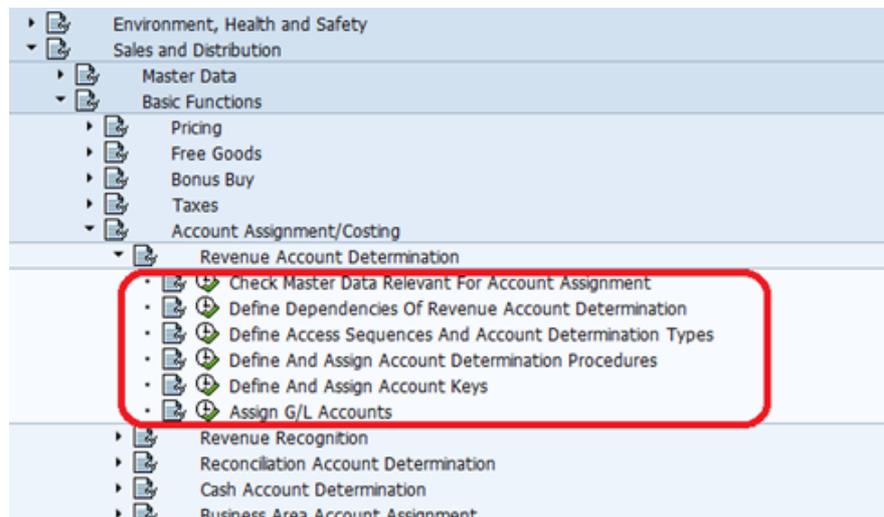
The account determination can be done to be based on the following criteria:

- Application
- Condition Type
- Chart of Accounts of Company Code
- Sales Organization
- Customer Account Assignment Group
- Material Account Assignment Group
- Account Key

**Note:** The above mentioned fields are standard fields included by default. More fields can be added as criteria.

## Configuration Steps

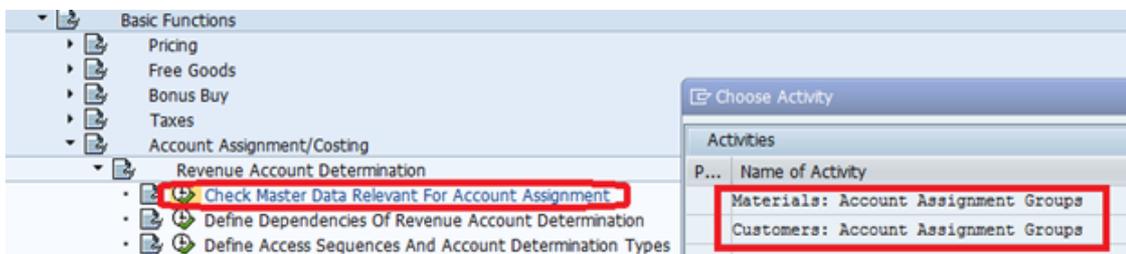
The configuration steps required for this activity can be found by following path SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination



As seen in the screen shot above, there are 6 configuration steps.

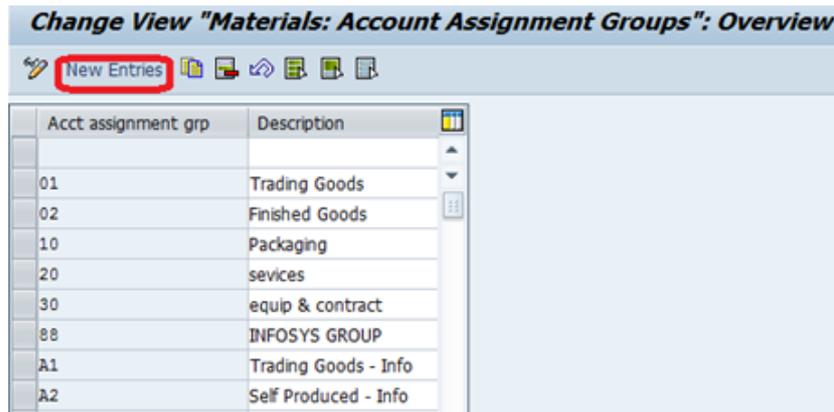
## Check Master Data Relevant For Account Assignment

The first step is setting up the master data relevant for account assignment. The menu path is SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Check Master Data Relevant For Account Assignment



There are two activities to be done in this step – material account assignment groups and customer account assignment groups.

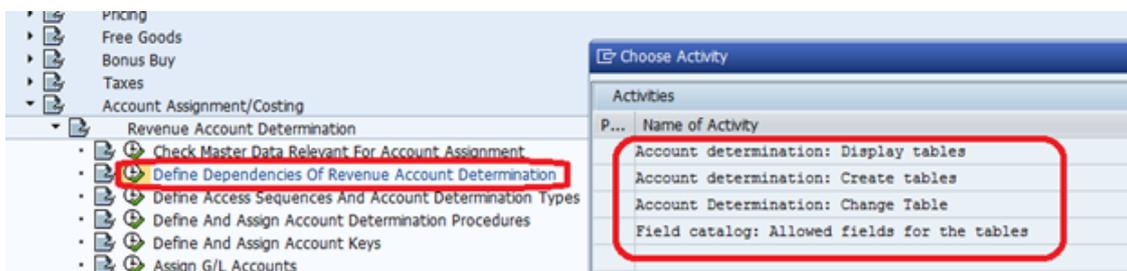
The first activity is material account assignment groups maintenance. From the screen, double click on Materials: Account Assignment Groups. The screen for maintaining material groups will appear.



Use the New Entries button to create new groups. There are different customer groups created as in the screen above which ensures that, for example, all the domestic revenues (Group 01) can be posted to different accounts than that of all the foreign revenues (Group 02) or the affiliated companies' revenue (Group 03).

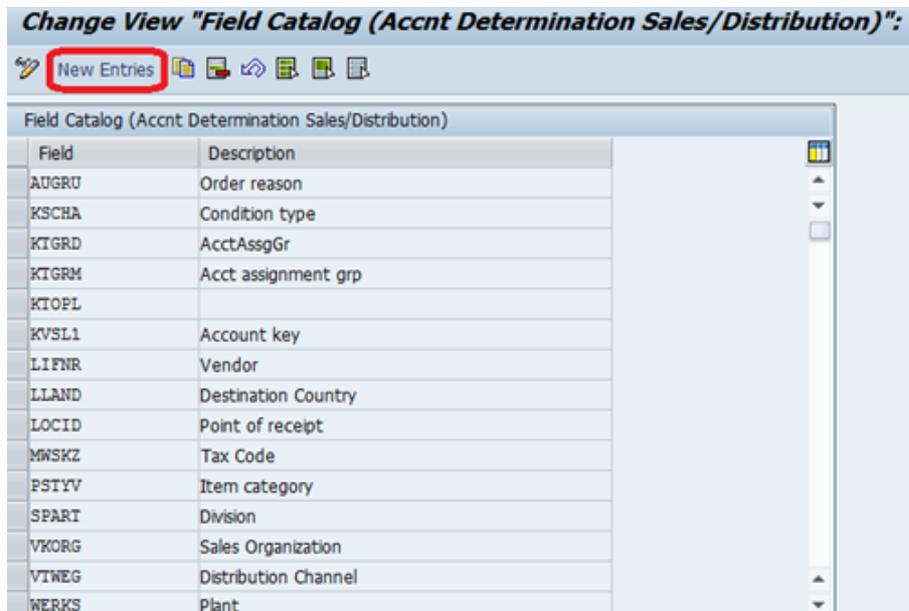
As already seen before, these customer groups are assigned to customers in the tab Billing Documents of the Sales Area data in the customer master. The system automatically proposes the account assignment group for the customer in the Sales or Billing documents from the customer master.

## Define Dependencies of Revenue Account Determination

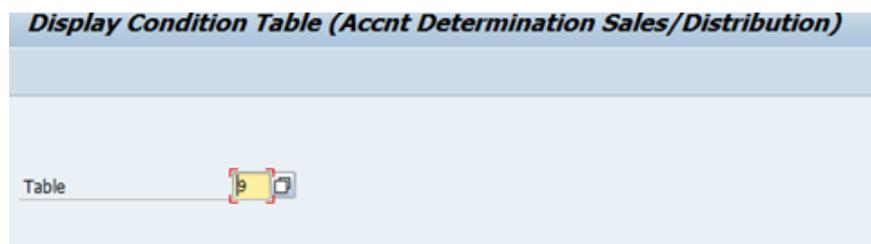


The next step is defining the dependencies for revenue account determination – defining fields as well as condition tables. The menu path is SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define Dependencies Of Revenue Account Determination

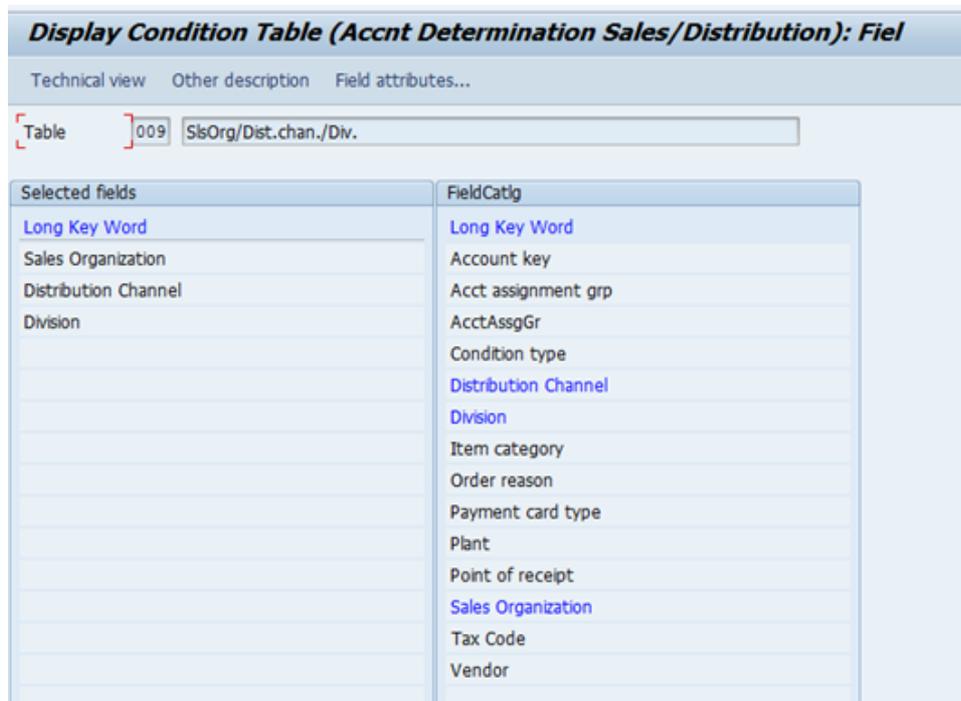
As already mentioned, the purpose of setting up account determination is to be able to differentiate accounts for posting according to certain criteria like customer account assignment group, account key, material account assignment group etc. Hence, the first activity here in this step is to decide which all criteria will be used for such differentiation. The field catalog contains fields that can be selected when we create or maintain a condition Table. These decided criteria are to be added by double clicking on the Field Catalog: Allowed fields for the tables option.



Once the fields have been selected, these fields have to be added to condition tables. There can be many tables, each with different combination of criteria that will be used for account determination. The existing tables can be displayed using Account Determination: Display Tables option.

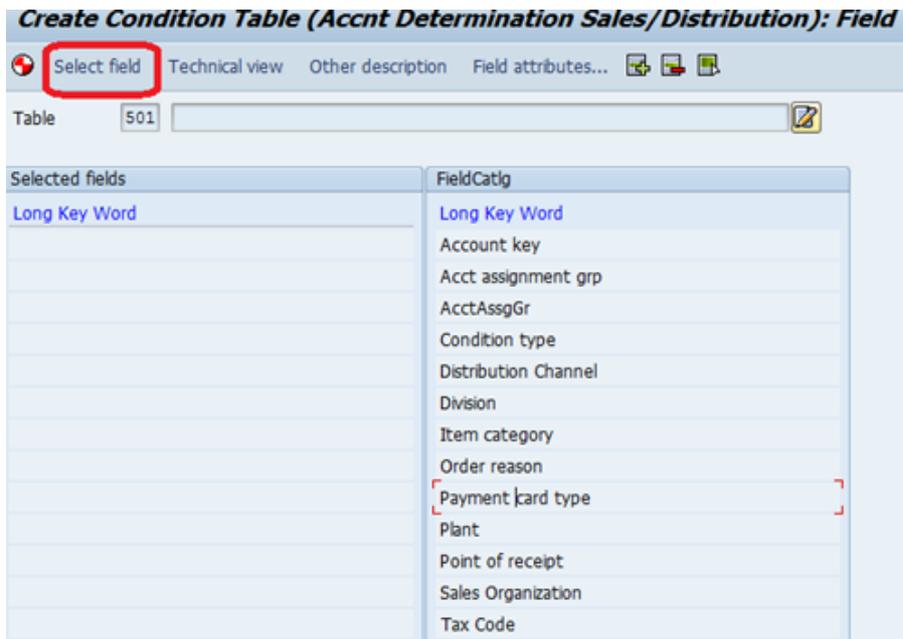


Enter the table number for which we need to see the table details and press enter.



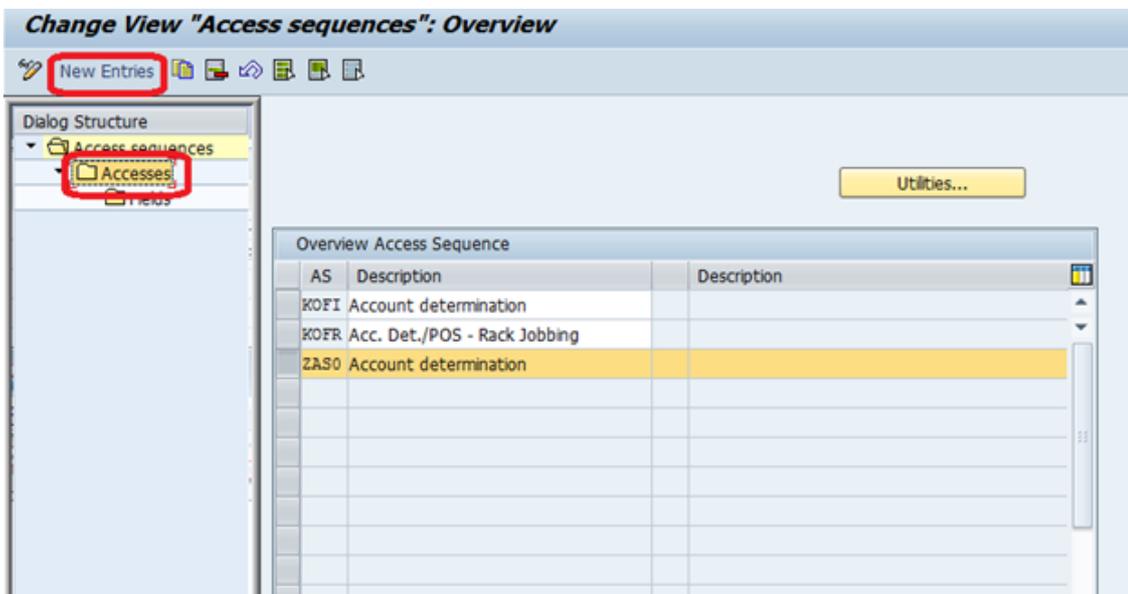
Enter table number 501 and press enter. If the table is to be copied from another existing condition table we can enter the existing table number in the field below the new table number.

Select the field payment card type and choose the Select field button.

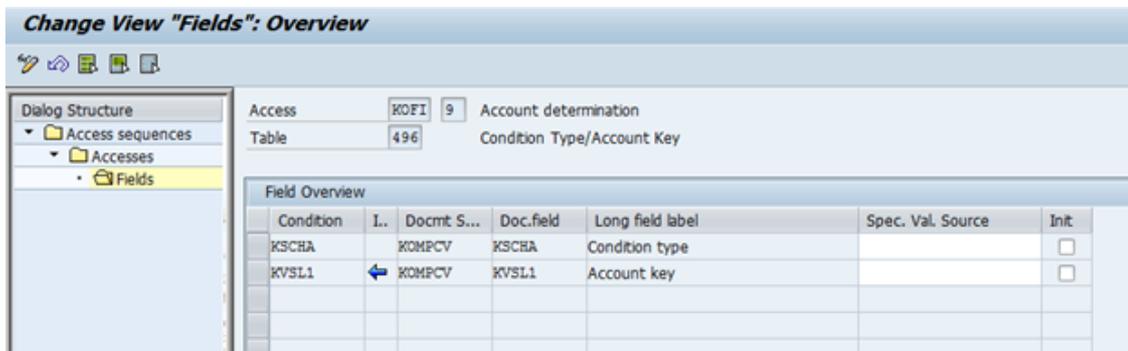


The next step is defining account determination types and access sequences. The menu path is SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define Access Sequences And Account Determination Types

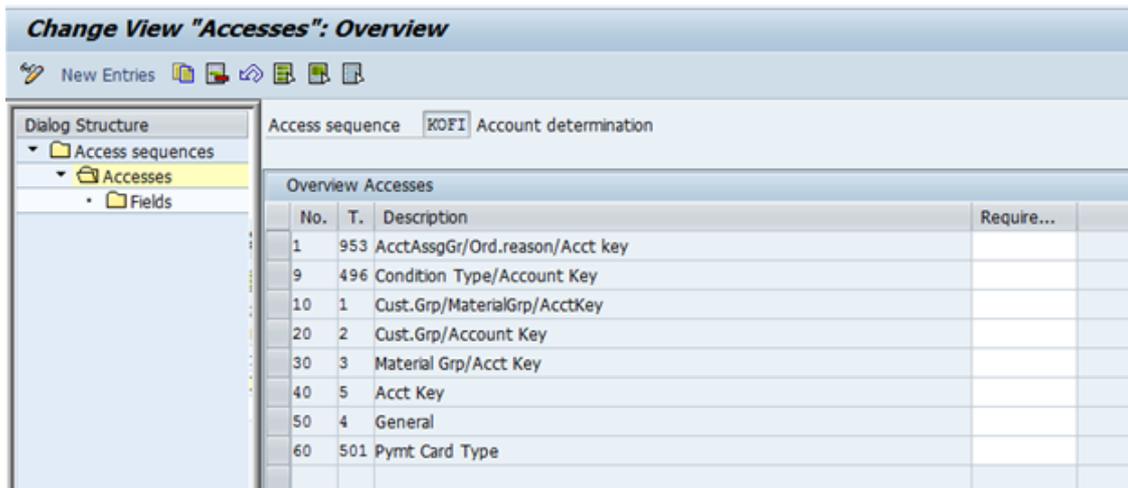
The first activity, Maintain access sequences for account determination is used to setup access sequences. Access sequences store information about which condition tables will be accessed for account determination, the sequence in which these tables will be accessed and the field contents of these condition tables. Double click on the option.



The above screen shows the condition tables and the sequence in which they are accessed in the access sequence KOFI. The No. column gives the order in which the tables are accessed i.e. the one with the lowest number is accessed first. As shown in the above screen shot, system will access table 953 first during determination procedure as that is first in sequence. If system is able to find out necessary information in this table it will not access table 496 but otherwise it will access table 496 next. Usually, the sequencing of the tables is configured such that, the more specific tables are accessed first for the information and then the less specific ones follow. The Tab column contains the condition table number and the Description field contains the table description. To see the fields contained in the condition table, click on the respective row and double click on the Fields folder as highlighted on the left hand side. To add new tables to the access sequence use the new entries button, enter the values in the No. and Tab column and save.



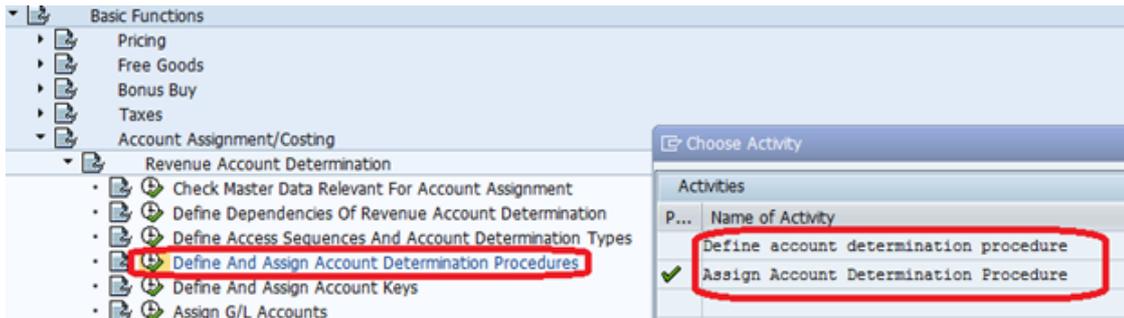
The screen shot above shows the fields in table 496 – Condition Type/Account Key.



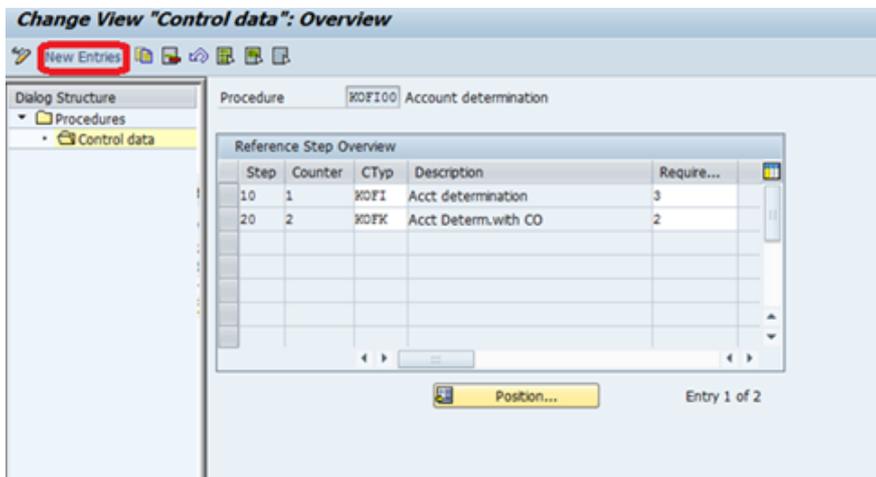
As seen in the screen shot, in this step, condition types are defined and then access sequences assigned to them. It is to be noted that these condition types are different from the condition types used in pricing procedures as discussed in the pre-requisites section. These condition types are used in account determination procedure. There are two standard condition types in the system – KOFI (for account determination without CO) and KOFK (for account determination with CO).

**Note :** Custom condition types and access sequences can be defined, but, it is recommended that these start with Z.

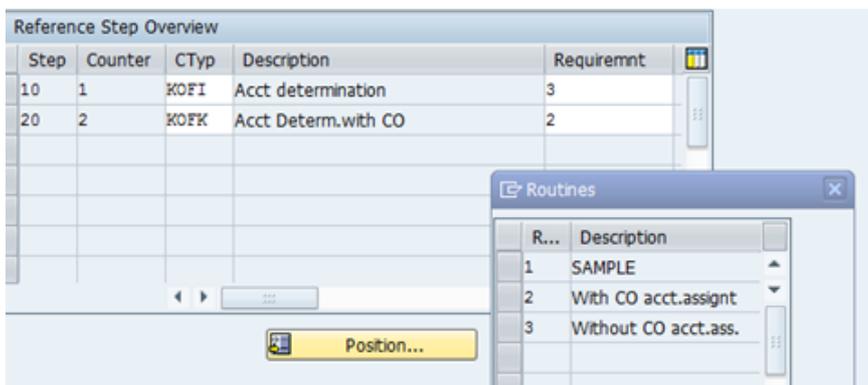
## Define And Assign Account Determination Procedures



KOFI00 is a standard account determination procedure. New procedures can be created using the button New Entries. To view the procedure, place the cursor on the respective row and double click on the folder Control data as highlighted on the left hand side.



The above screen shot shows the control data of the account determination procedure KOFI00. New condition types can be added to this procedure using the New Entries button. The step, counter, condition type and requirement values should be entered and saved. The step column contains the sequence in which the condition types of the procedure will be accessed, the one with the lowest step value being accessed first. If two condition types contain the same step value, the counter column is checked for the sequence. The one with the lower counter value will be accessed first. The condition types are contained in the column CType. The requirement column has options that can be chosen for a condition type as shown below.



The 3 options shown here are standard ones. Customized routines can also be created and added here. For example, for KOFI, the requirement column contains value 2 implying that this condition type can be activated only when the requirement that there is no CO account assignment is satisfied.

The second activity in this step is assigning the procedures. Double click on the option Assign account determination procedure.

**Change View "Billing: Document Types - Account Determination": Overview**

BIT	Description	ActDPr	Description	CaAc	Name
B1	Rebate Credit Memo	KOFI00		EVV	Cash clearing
B1E	Exp.RebateCreditMemo	KOFI00			
B2	Rebate Correction	KOFI00			
B2E	Exp. Rebate Correcn	KOFI00			
B3	Rebate Part Settlnmt	KOFI00			
B3E	Exp.RebatePartSettlm	KOFI00			
B4	Rebate Manual Accrsl	KOFI00			
BIND	Indr. Invoice Reb.	KOFI00			
BINP	Ind.Plan.SettlmntReb	KOFI00			
BK1	Debit Memo Agreeemnt	KOFI00			
BK3	Debit Memo Agreeemnt	KOFI00			
BM1	Debit Memo Agreeemnt	KOFI00			
BM3	Debit Memo Agreeemnt	KOFI00			
BV	Cash Sales	KOFI00			
CHFK	Bill.Ext.CH Trans. D	KOFI00			
CHFX	Bill.Ext.CH Trans. C	KOFI00			

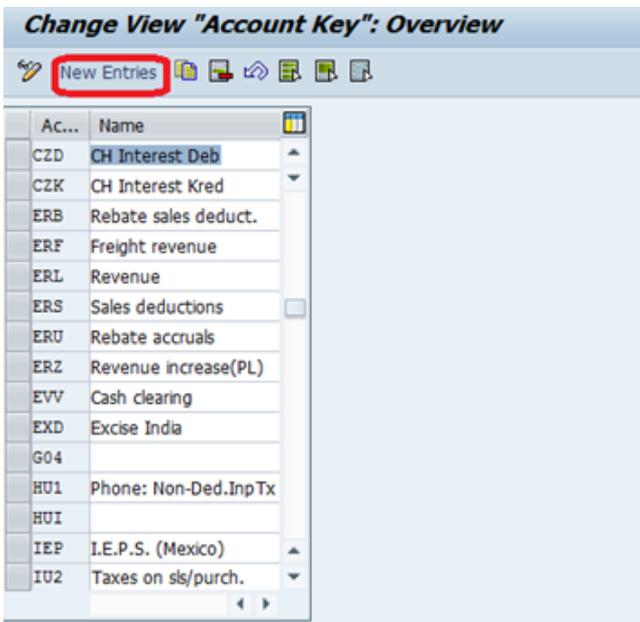
As seen in the screen shot above, all the billing document types defined in the system are presented. The required account determination procedure for each billing type is assigned in the column ActDPr in the respective row. For a particular billing type, the corresponding account determination procedure is used to determine the sequence of condition types and then the respective access sequences are read in the sequence of condition types.

The column CaAc is used to specify account key for cash transactions for each billing type. This causes the system to post to a G/L account rather than to a receivables account. G/L accounts can be entered for the key in account assignment.

## Define And Assign Account Keys

The next step is defining account keys and assigning them to condition types in pricing procedures. The account keys are defined to group together similar accounts in financial accounting. The menu path is SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define And Assign Account Keys

The first activity in this step is to define account keys. Account keys are defined as based on the requirement of G\L account in FI. Double click on the option Define Account Key.

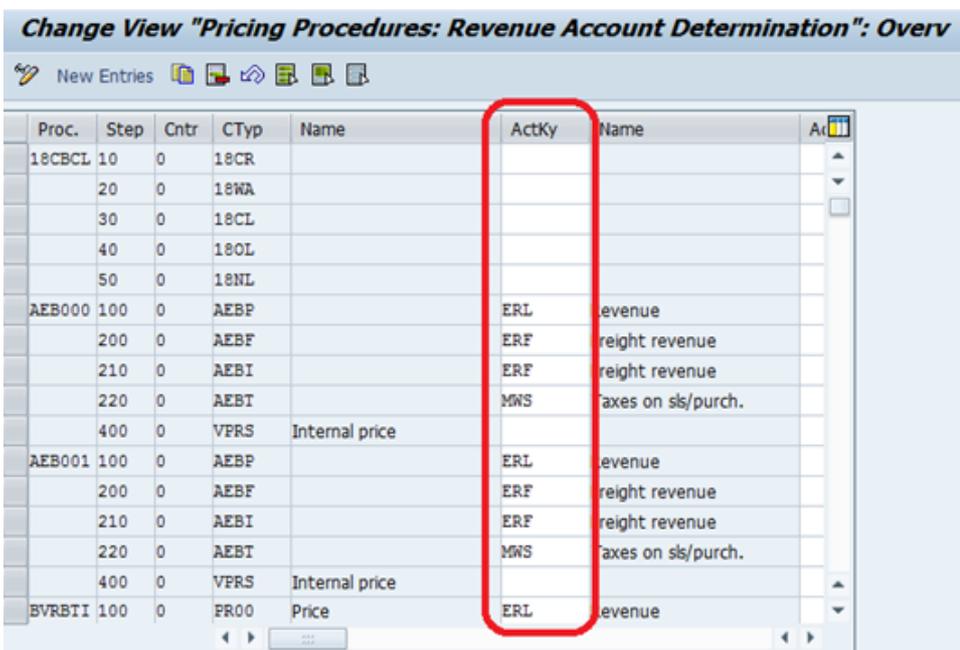


New account keys can be created in the system using the New Entries button. As seen in the above screen shot, different account keys are defined for different types of accounting entries. For example, ERL is account key for revenue related entries while ERF is defined for Freight revenue related entries. Since account keys also play an important role in the account determination process, it helps us in hitting different accounts for various transactions for the same set of customer or material.

Some of the standard account keys are:

- ERB – Rebate Sales Deductions
- ERF – Freight revenues
- ERL – Sales Revenues
- ERS – Sales Deductions
- ERU – Rebate Accruals
- EVV – Cash Settlement
- MWS – Sales Tax

The second activity in this step is to assign account keys to condition types in pricing procedures. Double click on the option Assign Account Key.



This step is the same as the one discussed in pre-requisites for pricing procedures. The activity done there through t-code V/08 is the same as the one done in this step. However, in this screen, we can add only the required account key in the ActKy column against the corresponding Condition types in the CTyp column. The V/08 screen allows several other activities like adding new procedures, changes to condition types within a procedure, change of steps or counter etc. along with the assignment of the account keys.

## Assign G/L Accounts



The last step is assigning G/L accounts. This is done in t-code VKOA or the menu path SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Assign G/L Accounts

Assign G/L Accounts	
Table	Description
1	Cust.Grp/MaterialGrp/AcctKey
2	Cust.Grp/Account Key
3	Material Grp/Acct Key
4	General
5	Acct Key
7	Vendor
496	Condition Type/Account Key
501	Pymt Card Type
953	AcctAssgGr/Ord.reason/Acct key

Only those tables will be displayed in VKOA which are linked to access sequences for which the account determination types are already assigned to account determination procedures. To make assignment of G/L accounts, double click on the required condition table entry. For illustration purposes, the condition table 1 has been chosen.

**Change View "Cust.Grp/MaterialGrp/AcctKey": Overview**

New Entries

Cust.Grp/MaterialGrp/AcctKey									
App	CndTy.	ChAc	SOrg.	AAG	AAG	ActKy	G/L Account	Provision ac	
V	KOFI	A999	MMMM	D1	J1	BCM			
V	KOFI	A999	MMMM	D1	J1	ERL	51010201		
V	KOFI	A999	MMMM	D1	J1	ERS	51010101		
V	KOFI	A999	MMMM	D1	J2	BCM			
V	KOFI	A999	MMMM	D1	J2	ERL	51010101		
V	KOFI	A999	MMMM	D1	J2	ERS	51010101		
V	KOFI	A999	MMMM	D2	J1	BCM			
V	KOFI	A999	MMMM	D2	J1	ERL	51010101		
V	KOFI	A999	MMMM	D2	J1	ERS	51010101		
V	KOFI	A999	MMMM	D2	J2	BCM			
V	KOFI	A999	MMMM	D2	J2	ERL	51010101		
V	KOFI	A999	MMMM	D2	J2	ERS	51010101		
V	KOFI	A999	S003	01	01	ERL			
V	KOFI	A999	S003	01	01	ERS			
V	KOFI	A999	S003	01	Z1	ERL	51010101		
V	KOFI	A999	S003	01	Z2	ERL	51010201		
V	KOFI	AI01	A001	01	A2	ERL	51010101		
V	KOFI	AI01	A001	01	A2	ERS	51010101		
V	KOFI	CABE	0001	01	01	ERL	700000		
V	KOFI	CABE	0001	01	02	ERL	700000		
V	KOFI	CABE	0001	02	01	ERL	700000		
V	KOFI	CABE	0001	02	02	ERL	700000		
V	KOFI	CABE	0001	03	01	ERL	700000		
V	KOFI	CABE	0001	03	02	ERL	700000		
V	KOFI	CABE	1000	01	01	ERL	700000		
V	KOFI	CABE	1000	01	02	ERL	700000		
V	KOFI	CABE	1000	02	01	ERL	700000		
V	KOFI	CABE	1000	02	02	ERL	700000		
V	KOFI	CABE	1000	03	01	ERL	700000		
V	KOFI	CABE	1000	03	02	ERL	700000		
V	KOFI	CABE	CN01	01	01	ERL	700000		

New rows can be added to the table using the New entries button. As seen from the screen shot above, G/L accounts assignment in this table is based on

- Application
- Condition type
- Chart of accounts
- Sales Organization
- Customer account assignment group
- Material account assignment group
- Account Key

The provision account column is used in case the account key is an accrual key as explained in section 3.3. The G/L account column for such an account key has the P&L account and the provision account column is filled with the Balance Sheet account number

For instance, for application = v, condition type = KOFI, chart of accounts = A999, sales org = MMMM, customer group = D1, material group = J1, if the account key is ERL, the posting is done to G/L account 51010201 and for account key ERS, the posting is done to G/L account 51010101. Thus, we differentiate the G/L account based on the transaction type through the account key. Similarly, for application = v, condition type = KOFI, chart of accounts = A999, sales org = MMMM, customer group = D1, account key = ERL, if the material group is J1, the posting is done to G/L account 51010201 and for material group J2, the posting is done to G/L account 51010101. Thus, we differentiate the G/L account based on the material group of the material.

Similarly, the G/L accounts are assigned to all the condition tables. For instance, if we would have chosen table 2 instead on 1 for assignment of G/L accounts, the screen would have been as shown below.

**Change View "Cust.Grp/Account Key": Overview**

New Entries      

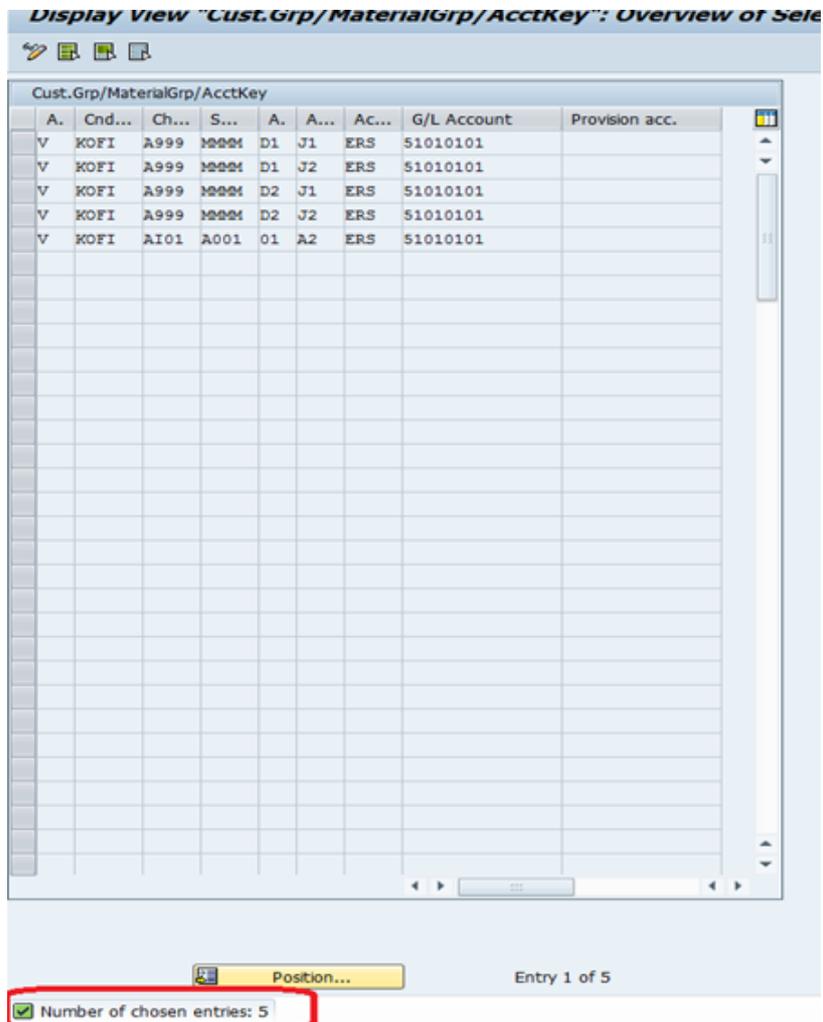
Cust.Grp/Account Key							
A.	CondTy.	ChAc	SOrg.	AAG	ActKy	G/L Account	Pro
V	KOFI	CABE	0001	01	ERL	700000	
V	KOFI	CABE	0001	02	ERL	700000	
V	KOFI	CABE	0001	03	ERL	700000	
V	KOFI	CABE	1000	01	ERL	700000	
V	KOFI	CABE	1000	02	ERL	700000	
V	KOFI	CABE	1000	03	ERL	700000	
V	KOFI	CABE	CN01	01	ERL	700000	
V	KOFI	CABE	CN01	02	ERL	700000	
V	KOFI	CABE	CN01	03	ERL	700000	
V	KOFI	CABE	PECO	01	ERL	700000	
V	KOFI	CABE	PECO	02	ERL	700000	
V	KOFI	CABE	PECO	03	ERL	700000	
V	KOFI	CABE	VZ01	01	ERL	700000	
V	KOFI	CABE	VZ01	02	ERL	700000	
V	KOFI	CABE	VZ01	03	ERL	700000	
V	KOFI	CABE	XCBJ	01	ERL	700000	
V	KOFI	CABE	XCBJ	02	ERL	700000	
V	KOFI	CABE	XCBJ	03	ERL	700000	
V	KOFI	CABE	XCSH	01	ERL	700000	
V	KOFI	CABE	XCSH	02	ERL	700000	
V	KOFI	CABE	XCSH	03	ERL	700000	
V	KOFI	CABE	ZA10	01	ERL	700000	
V	KOFI	CABE	ZA10	02	ERL	700000	
V	KOFI	CABE	ZA10	03	ERL	700000	
V	KOFI	CABE	ZDRR	01	ERL	700000	
V	KOFI	CABE	ZDRR	02	ERL	700000	
V	KOFI	CABE	ZDRR	03	ERL	700000	
V	KOFI	CACH	0001	01	ERL	30000	
V	KOFI	CACH	0001	01	ERS	39090	
V	KOFI	CACH	0001	02	ERL	30010	
V	KOFI	CACH	0001	02	ERS	39090	

As seen, the difference between tables 1 and 2 is that in condition table 2, there is no material account assignment group criterion for determination of G/L account. So, for instance, if an access sequence lists the table 1 as the first one to be checked and table 2 as the second one, and the material group is missing from the billing document, then the G/L account to be posted to would be traced from table 2.

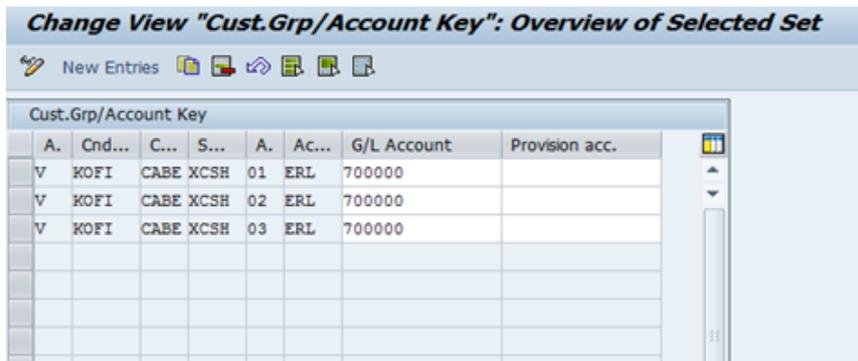
From the condition table displayed for G/L account assignment, rows that satisfy particular criteria can be identified. Use Menu tab Selection -> By Contents

The fields that can be used for selection are displayed. Here, for instance, we choose account key and G/L account by clicking on these fields and press enter.

We want to display rows with Account key = ERS and G/L Account = 51010101. Enter the field values and select the choose button. The list is displayed as shown below. The number of entries selected will also be shown at the bottom of the page as highlighted.



This selection can also be used for easy assignment of G/L accounts. For example, for table 2, choose chart of accounts = CABA, sales org = XCSH and account key = ERL in the selection. When the list of entries is displayed, the same account number can be easily entered in the G/L account column.



## Displaying Account Determination Analysis

The screen shot below shows an accounting document in FI. The t-code used is FB03 or follow the menu path SAP Easy Access Menu -> Accounting -> Financial Accounting -> General Ledger -> Document -> Display

**Display Document: Data Entry View**

Taxes | Display Currency | Reversal Document | General Ledger View

Data Entry View

Document Number: 100000231 | Company Code: 1000 | Fiscal Year: 2010  
 Document Date: 2010/09/28 | Posting Date: 2010/09/28 | Period: 9  
 Reference: 10000 | Cross-CC no.: |  
 Currency: CNY | Texts exist:  | Ledger Group:

CoCd	PK	S	Account	Description	Amount	Curr.	Amount in LC	Tx	Profit Center	Cost Center	Order	Material
1000	3	50	175000	Output tax	102.00-	CNY	13.077-	T2				
1000	2	50	800000	Sales	600.00-	CNY	76.923-	T2	DUMMY	20102		1414
1000	1	02	100180	Beijing Trading Company	702.00	CNY	90.000	T2				

As highlighted in the screen, the G/L account 800000 has been chosen for posting of the sales. The corresponding billing document can be seen using menu tab Environment -> Document Environment -> Original Document.

Document | Edit | Goto | Extras | Settings | Environment | System | Help

**Display Document: Data Entry View**

Taxes | Display Currency

Data Entry View

Document Number: 100000231 | Company Code: 1000 | Fiscal Year: 2010  
 Document Date: 2010/09/28 | Posting Date: 2010/09/28 | Period: 9  
 Reference: 10000 | Cross-CC no.: |  
 Currency: CNY | Texts exist:  | Ledger Group:

- Document Changes
- Check Information
- Payment Usage
- Document Environment
  - Original Document
  - Accounting Documents
  - Display Transaction
  - Relationship Browser
- Additional Assignments
- Valuation
- Correspondence
- Balance Sheet Adjustment
- Addtl components...
- Reference Object

**Cancel of Cred Memo 90000344 (S2) Change: Overview of Billing Items**

Accounting | Billing documents

Cancel of Cred Memo: 90000344 | Net Value: 600.00 CNY  
 Payer: 100180 | Beijing Trading Company / CN -  
 Billing Date: 2010/09/28

Item	Description	Billed Quantity	S..	Net value	Material	Cost
1	1000-1000-Intel CPU 2000	5	PC	600.00	1414	585.00

To see the account determination analysis, from the billing document screen, use the menu tab Environment -> Account Determination Analysis -> Revenue Accounts

Billing document | Edit | Goto | Environment | System | Help

**Cancel of Cred Memo 90000344 (S2) Change: Overview of Billing Items**

Accounting | Billing documents

Cancel of Cred Memo: 90000344 | Net Value: 600.00 CNY  
 Payer: 100180 | Beijing Trading Company / CN -  
 Billing Date: 2010/09/28

- List Billing Documents (Ctrl+Shift+F10)
- Display document flow (Shift+F7)
- Acc.determ.analysis
  - Revenue accounts (Ctrl+Shift+F12)
  - Reconciliation accounts
  - POS calculation
- Split analysis
- Changes
- Display financial document

Item	Description	Billed Quantity	S..	Net value	Material	Cost
1	1000-1000-Intel CPU 2000	5	PC	600.00	1414	585.00

**Analysis Acct Determination**

Procedure	Description
<ul style="list-style-type: none"> <li>▼ KOFI00 Account determina...</li> <li> <ul style="list-style-type: none"> <li>▼ PR00 Price           <ul style="list-style-type: none"> <li>01(KOFI) AcctAssgGr/Ord.rea...</li> <li>09(KOFI) Condition Type/Acc...</li> <li>10(KOFI) Cust.Grp/MaterialGr...</li> <li>20(KOFI) Cust.Grp/Account K...</li> <li>30(KOFI) Material Grp/Acct Key</li> <li>40(KOFI) Acct Key</li> </ul> </li> </ul> </li> </ul>	

**Access details 09 ( KOFI )**

Access	Message	Description
09	121	No G/L account found in Account determination type KOFI

Access	(complete)
Field in condition table	Field in document Value in doc.
Chart of Accounts	Chart of Accounts INT
Condition type	Condition type PR00
Account key	Account key ERL

As seen from the screen above, the G/L account entry was not found in condition table condition type/account key. The account 800000 was determined from the table Acct Key.

## Preparation- Creation of Sales Order & Outbound Delivery

1. SD-FI Integration starts From PGI of OBD
  - 2.1 Accounting entries at PGI
    - i. 2.1.1 First Error M8147 -Account determination for entry PPIN GBB not possible
2. Now try to post Goods Issue again
  - 3.1 Error NR751
    - i. 3.1.1 Number Range 49 Maintenance for object RF\_BELEG
  - 3.2 FI Postings (SD-FI Integration OBD PGI Part)
    - ii. 3.2.1 Reminder -Check the FI document above in light of the Material Pricing
3. Account Determination in SD
  - 4.1 Account Assignment Groups for Materials
  - 4.2 Account Assignment Groups for Customers
  - 4.3 Define Access Sequences and Account Determination Types
  - 4.4 Define & Assign Account Determination Procedures
  - 4.5 Define And Assign Account Keys
  - 4.6 Assign G/L Accounts (VKOA)
  - 4.7 Assign G/L Accounts For Tax Posting
  - 4.8 Tax Accounts Keys MW1, MW2 & MW3
4. Create Billing
  - 5.1 Error KI235 -GL requires an account assignment relevant to cost accounting
    - 5.1.1 Profit Center Accounting
      - 5.1.1.1 Controlling Area setting for Profit Center Accounting
      - 5.1.1.2 Maintain Controlling Area setting
    - 5.1.2 Create Profit Center
    - 5.1.3 Cost Center Accounting
      - 5.3.1.1 Create Cost Center
  - 5.2 Error KI235 -Resolution (OKB9)
5. Create Billing – Retry after Error Resolution
  - 6.1 Accounting Entries at Billing

## 1. Preparation for SD-FI Integration

We will create the sales order first . Then on the basis of sales order, we will create outbound delivery. At the time of goods issue to outbound delivery, system posts the respective amount to the corresponding GL account. This is SD-FI integration area.

**We have customized the sales cycle as: Sales Order (YOR) → Outbound Delivery (YOBD) → Billing (YF2)**

### 1. Step 1 – Configure Sales Order Type

YOR-PPIN Std. Sales Order

## 2. **Step 2 – Configure Item Categories**

**Sales Item Categories**-YTAN-Standard Item

**STO Item Categories** – YULN-Standard Stock Transport Item, YNLN-Standard Stock Transport Item, YNLC-Inter Co Stock Transport Item.

## 3. **Step 3 – Configure determination of Item categories in Sales Order**

It is a combination of : sales document type\*Item Category Group\*Usage\*Item Category of height level Item

## 4. **Step 4 – Configure Schedule Line Category**

YP-MRP, YV-Consumption MRP, YN-No Material Planning

## 5. **Step 5 – Configure schedule line Category Determination**

It's a combination of : Item Category \* MRP Type from Material Master

## 6. **Step 6 – Configuration of Delivery Type**

YOBD-Outbound Delivery CS, YNL-Replenishment Delivery, YNLC-Replenishment Cross-Company

## 7. **Step 7 – Configuration of Delivery Item Categories**

**Sales Item Categories**-YTAN-Standard Item

**STO Item Categories** – YULN-Standard Stock Transport Item, YNLN-Standard Stock Transport Item, YNLC-Inter Co Stock Transport Item

## 8. **Step 8 – Determination of Item Category in Delivery**

It is a combination of : Delivery type\*Item Category Group\*Usage\*Item Category of height level Item

## 9. **Step 9 – Configuration of Billing Type**

YF2 – Invoice

**10. Step 10 – Copy Control : Sales Order (YOR) → Outbound Delivery (YOBD)**

Header Copy  
Item Copy

**11. Step 11 – Copy Control : Outbound Delivery (YOBD) → Invoice (YF2)**

Header Copy  
Item Copy

**12. Step 12 – Final config of flow YOR →YOBD–YF2**

Assignment of YOBD & YF2 to YOR

**[Detailed Steps: Configure SAP S4 HANA Sales Documents](#)**

To Check the SD-FI integration we need to reach till outbound delivery creation & subsequently PGI to outbound delivery.

**1.1 Creation of Sales Order & Outbound Delivery**

In the below post the process of sales order creation, Outbound delivery creation & subsequently PGI (Post Goods Issue) has been explained step by step.

**Please check the below post thoroughly before proceeding further to SD-FI integration**

**[Sales Order in SAP S4 HANA SD](#)**

**2. SD-FI Integration starts From PGI of OBD**

In the above post we have explained that since SD-FI configuration is still not done, so as soon as we tried to post goods issue to outbound delivery, system throws the below error.

**2.1 Accounting entries at PGI**

At the time of goods issue , stock is lessened by the quantity & value equal to the quantity & value of goods issue.

The offsetting entry is done on COGS (Cost of Goods Sold) account

**Accounting entries at the time of Goods issue**

**Cr Stock Account (-)**

**Dr COGS (Cost of Goods Sold) (+)**

--> Stock account is credited on the basis of BSX key configuration from OBYC setting of MM-FI configuration. Please check the below post to see the step by step configuration of BSX

For our car business BSX posting is done on GL 113600000 (Inventory Trading goods)

--> COGS account is debited on the basis of GBB-VAX key. We will configure GBB-VAX key it in the next section.

As soon as we tried to post goods issue system throws the error due to absence of SD-FI integration configuration

### 2.1.1 First Error M8147 -Account determination for entry PPIN GBB not possible

- This error is coming because of absence of configuration of inventory offsetting. We need to configure account determination of VAX key
- VAX: for goods issues for sales orders without account assignment object (the account is not a cost element)
- COGS account at the time of goods issue is determined based on this key.
- For our car business GBB-VAX posting is done on GL 550200000 (PPIN-Cost of Goods Sold (Trade w/o Cost Element)).
- Start OBYC and double click on GBB

Description	Transaction	Account Determ.
G01 < missing >	G01	<input checked="" type="checkbox"/>
G02 < missing >	G02	<input checked="" type="checkbox"/>
G04 < missing >	G04	<input checked="" type="checkbox"/>
Offsetting entry for inventory posting	GBB	<input checked="" type="checkbox"/>
Expense/revenue from handling surcharge	HSC	<input checked="" type="checkbox"/>
Account-assigned purchase order	KBS	<input type="checkbox"/>
MM Exchange Rate Differences	KDG	<input checked="" type="checkbox"/>
Materials management exch.rate diffs	KDM	<input checked="" type="checkbox"/>
MM exchange rate rounding differences	KDR	<input checked="" type="checkbox"/>
Material ledger frm low.levels E/R diff.	KDV	<input checked="" type="checkbox"/>

Picture : Configuration of GBB/VAX..Part 1



**Picture : Configuration of GBB/VAX..Part 2**

### 3. Now try to post Goods Issue again

After GBB VAX configuration now try to post PGI again

#### 3.1 Error NR751

**Interval 49 does not exist for object RF\_BELEG PA10 FBN1**

Message no. NR751

**Picture : Number Range Error in Outbound Delivery PGI**

#### 3.1.1 Number Range 49 Maintenance for object RF\_BELEG

No	Year	From No.	To Number	NR Status	Ext	
<input type="checkbox"/>	49	2021	2000000000	2999999999	0	<input type="checkbox"/>
<input type="checkbox"/>	51	2021	0000000001	1999999999	2	<input type="checkbox"/>

**Picture : Number Range 49 Maintenance for object RF\_BELEG**

Try PGI now. PGI is done successfully this time Material document & accounting document is generated

#### 3.2 FI Postings (SD-FI Integration OBD PGI Part)

System creates a material document to update the quantity in the Plant/SLOC. On the back of it, system generates an accounting document to post the values on the respective GL accounts.

**Display Document: Data Entry View**

Display Currency    General Ledger View

Data Entry View

Document Number	3000000002	Company Code	PA10	Fiscal Year	2022
Document Date	07.03.2022	Posting Date	12.03.2022	Period	3
Reference	0080000020	Cross-Comp.No.			
Currency	USD	Texts Exist	<input type="checkbox"/>	Ledger Group	

CoCd    Item    Trs    Key S    Account    Description    Amount    CrCy    Tx

PA10	1	BSX	99	113600000	PPIN-Inventory - Tra	17.93	USD	
	2	GBB	81	550200000	PPIN-COGS	17.93	USD	

**Picture : PGI Accounting Entries**

**3.2.1 Reminder -Check the FI document above in light of the Material Pricing**  
Check the material price i the material master "Accounting 1" view.

**Display Material 0000266 (Trading Goods)**

Additional Data    Org. Levels

Quality management    **Accounting 1**    Accounting 2    Plant stock    Stor. I...

VC: Sale Ord. Stk         ML Act.    **Mat. Price Analysis**

Project Stock VC        Price Determ.    2 Transaction-Based

Prices and Values

Currency Type	Company Code	Currency	Group Currency
Ledger	0L		0L
Currency	Company Code	Currency	Group Currency
Valuation View	Legal		Legal
Currency Key	USD		INR
Standard Price		13.00	979.16
<b>Per. Unit Price</b>		<b>17.93</b>	16.51
Price Unit		1	1
Price Control		V	V
Inventory Value		17.93	16.51

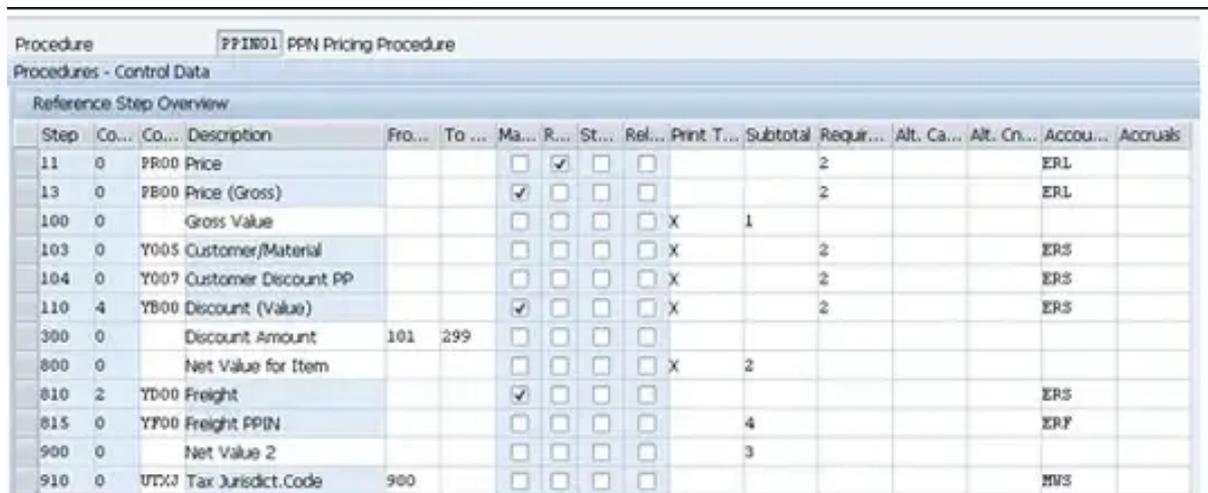
**Picture : Material Value in Accounting View**

## 4. Account Determination in SD

Account determination in SD is also called revenue account determination  
**Revenue account determination in SD is a process to determine the relevant revenue accounts to which prices, discounts, and surcharges are posted.**

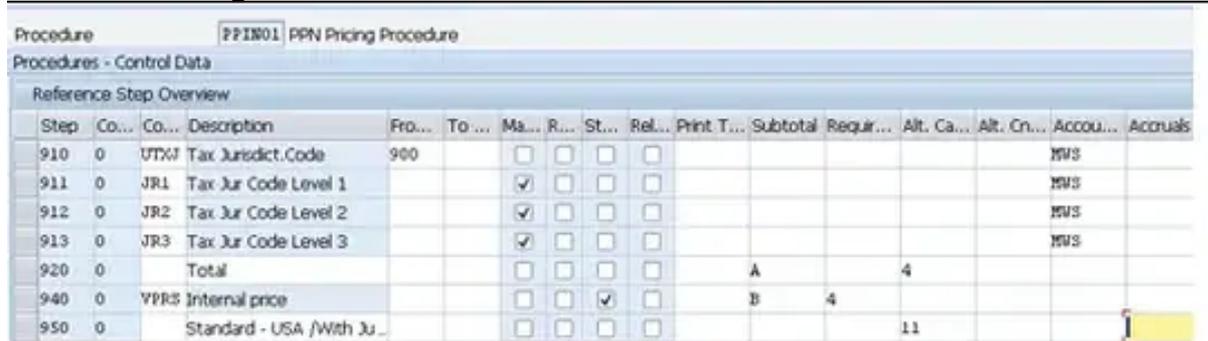
The system uses conditions to determine the relevant accounts.

We have configured our own customized pricing procedure in the post



Step	Co...	Co...	Description	Fro...	To ...	Ma...	R...	St...	Rel...	Print T...	Subtotal	Requir...	Alt. Ca...	Alt. Cn...	Accou...	Accruals
11	0	PR00	Price			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2			ERL	
13	0	PB00	Price (Gross)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2			ERL	
100	0		Gross Value			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	1					
103	0	Y005	Customer/Material			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X		2			ERS	
104	0	Y007	Customer Discount PP			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X		2			ERS	
110	4	YB00	Discount (Value)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X		2			ERS	
300	0		Discount Amount	101	299	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
800	0		Net Value for Item			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X		2				
810	2	YD00	Freight			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						ERS	
815	0	YF00	Freight PPIN			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			4			ERP	
900	0		Net Value 2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			3				
910	0	UTWJ	Tax Juridict.Code	900		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						MWS	

Picture : Pricing Procedure for our Car Business ...Part 1



Step	Co...	Co...	Description	Fro...	To ...	Ma...	R...	St...	Rel...	Print T...	Subtotal	Requir...	Alt. Ca...	Alt. Cn...	Accou...	Accruals
910	0	UTWJ	Tax Juridict.Code	900		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						MWS	
911	0	JR1	Tax Jur Code Level 1			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						MWS	
912	0	JR2	Tax Jur Code Level 2			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						MWS	
913	0	JR3	Tax Jur Code Level 3			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						MWS	
920	0		Total			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		A		4			
940	0	YPRS	Internal price			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		B	4				
950	0		Standard - USA /With Ju...			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				11			

Picture : Pricing Procedure for our Car Business ...Part 2

Account Keys (for example ERL, ERS, MWS etc. in the above screenshot) are assigned to the different conditions in the pricing procedures.

**Condition technique is used for account determination to allocate the correct general ledger account to the account keys as assigned in the pricing procedure.**

So determination procedure to find the accounts, called the account determination procedure.

#### 4.1 Account Assignment Groups for Materials

Account assignment groups are used to classify a material as a product, service, or equipment for the purpose of GL account differentiation.

**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Check Master Data Relevant For Account Assignment -> Define Account Assignment Groups for Materials**

We have defined below account assignment groups for materials.

Acct Assmt Grp Mat.	Description
PA	Products
PB	Spare Parts
PC	Services

**Picture : Account Assignment Groups for Materials**

Account keys are assigned to the material master record on the material sales org 2 view.

**4.2 Account Assignment Groups for Customers**

Account assignment groups for customers are useful if we want to post let's say domestic sales revenue into different account while international sales revenue should be posted into different account.

**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Check Master Data Relevant For Account Assignment -> Define Account Assignment Groups for Customers**

*Change View "Customers: Account Assignment Groups": Overview*

New Entries

Acct Assmt Grp Cust.	Description
01	Domestic Revenues
02	Foreign Revenues
03	Affiliat Comp Revenu

**Picture : Account Assignment Groups for Customers**

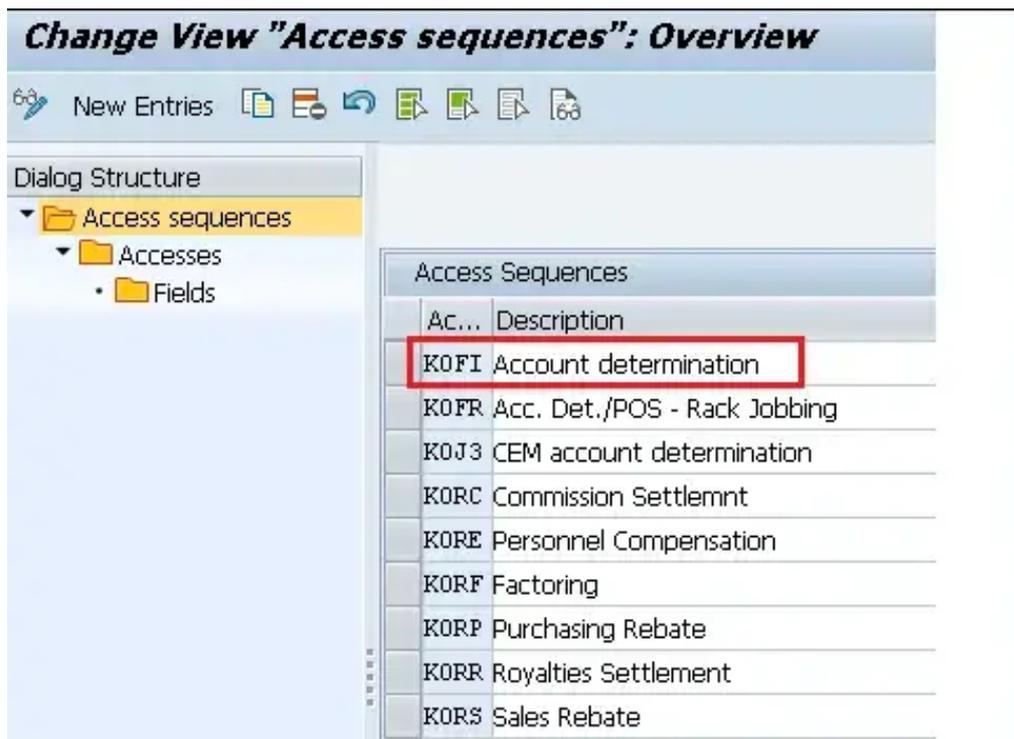
**4.3 Define Access Sequences and Account Determination Types**

The Standard SAP has two condition types: KOFI (account determination) and KOFK (account determination with CO).

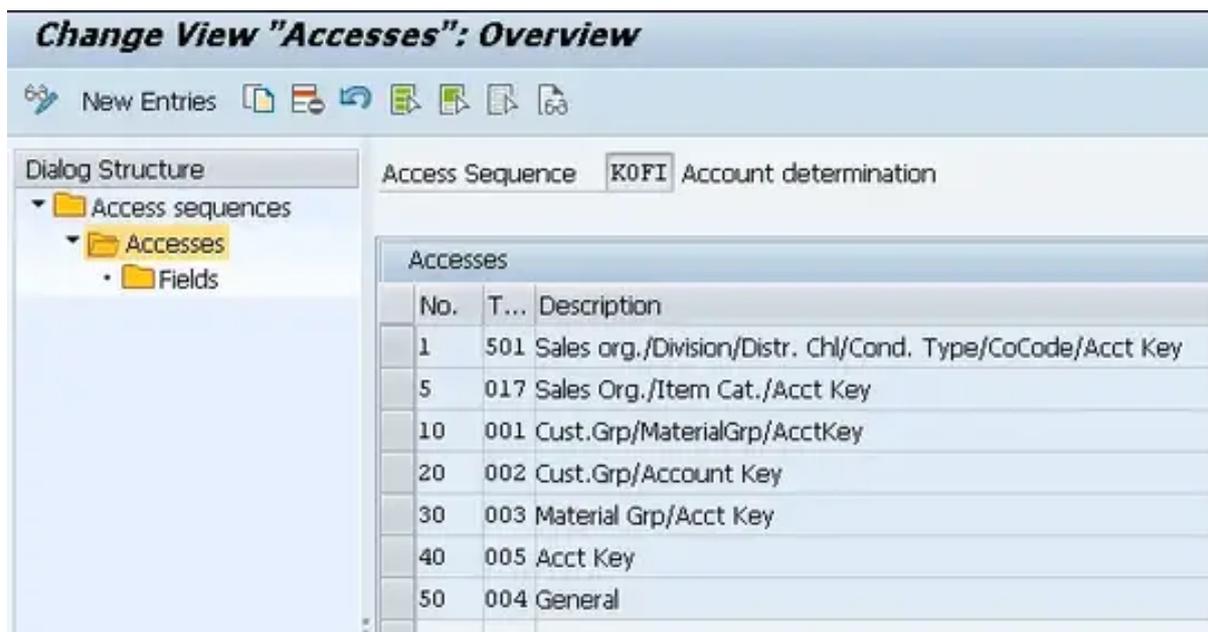
For our car business we will use the standard condition type KOFI, which uses the access sequence with the key KOFI.

The KOFI access sequence has five condition tables assigned to it

**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define Access Sequences and Account Determination Types -> Define Access Sequences for Revenue Account Determination**



**Picture : Access Sequence ..Part 1**



**Picture : Access Sequence ..Part 2**

**SPRO → IMG → Sales and Distribution → Basic Functions → Account Assignment/Costing → Revenue Account Determination → Define Access Sequences and Account Determination Types → Define Account Determination Types**

We can now allocate our chosen access sequence KOFI to the relevant account determination type (condition type) of our pricing procedure.

<b>Change View "Conditions: Types": Overview</b>				
New Entries				
Condition Types				
Co...	Name	Ac...	Description	
Y007	Account Determinatio	KOFI	Account determination	
YB00	Account Determinatio	KOFI	Account determination	
YD00	Account Determinatio	KOFI	Account determination	
YF00	Account Determinatio	KOFI	Account determination	

**Picture : Define Account Determination Types**

#### 4.4 Define & Assign Account Determination Procedures

Here we define account determination procedures and allocate them to the billing types.

In an account determination procedure, we define the sequence in which the system should read the account determination types (condition types).

**For our car business, we will use the standard account determination procedure (KOFI00) with the key "KOFI00" has already been defined. This will serve our purpose. We will copy KOFI00 and create our own as YPPIN0**  
**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define And Assign Account Determination Procedures -> Define account determination procedure**

<b>Change View "Procedures": Overview</b>																								
New Entries                       BC Set: Change Field Values																								
Dialog Structure ▾ Procedures • Control data	Usage <input type="text" value="C"/> Application <input type="text" value="V"/>	<table border="1"> <thead> <tr> <th colspan="2">Procedures</th> </tr> <tr> <th>Procedure</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AABB</td> <td>AABB PROCEDURE</td> </tr> <tr> <td>ACT1</td> <td>ACT1 PROCEDURE</td> </tr> <tr> <td>J3GKOF</td> <td>CEM account determination</td> </tr> <tr style="background-color: #ffff00;"> <td>KOFI00</td> <td>Account determination</td> </tr> <tr> <td>KOFRCO</td> <td>Commission Settlement</td> </tr> <tr> <td>KOFRE0</td> <td>Personnel Compensation</td> </tr> <tr> <td>KOFRP0</td> <td>Purchasing Rebate</td> </tr> <tr> <td>KOFRRO</td> <td>Royalties Settlement</td> </tr> <tr> <td>KOFRS0</td> <td>Sales Rebate</td> </tr> </tbody> </table>	Procedures		Procedure	Description	AABB	AABB PROCEDURE	ACT1	ACT1 PROCEDURE	J3GKOF	CEM account determination	KOFI00	Account determination	KOFRCO	Commission Settlement	KOFRE0	Personnel Compensation	KOFRP0	Purchasing Rebate	KOFRRO	Royalties Settlement	KOFRS0	Sales Rebate
Procedures																								
Procedure	Description																							
AABB	AABB PROCEDURE																							
ACT1	ACT1 PROCEDURE																							
J3GKOF	CEM account determination																							
KOFI00	Account determination																							
KOFRCO	Commission Settlement																							
KOFRE0	Personnel Compensation																							
KOFRP0	Purchasing Rebate																							
KOFRRO	Royalties Settlement																							
KOFRS0	Sales Rebate																							

**Picture : Std Account Determination Procedure**

**Change View "Control data": Overview**

New Entries [Icons]

Dialog Structure: Procedures > Control data

Procedure: YPPIN0 PPIN Account determination

Step	Co...	Co...	Description	Requirement
10	1	KOFI	Acct determination	3
10	2	KOFK	Acct Determ.with CO	2
50	0	KORS	Sales Rebate	6
51	0	KORC	Commission Settlemnt	6
52	0	KORP	Purchasing Rebate	6
53	0	KORR	Royalties Settlement	6

**Change View "Procedures": Overview**

New Entries [Icons] BC Set: Change Field Values [Icon]

Dialog Structure: Procedures > Control data

Usage: C  
Application: V

Procedure	Description
AABB	AABB PROCEDURE
ACT1	ACT1 PROCEDURE
J3GKOF	CEM account determination
KOFI00	Account determination
KOFRC0	Commission Settlement
KOFRE0	Personnel Compensation
KOFRP0	Purchasing Rebate
KOFRR0	Royalties Settlement
KOFRS0	Sales Rebate

**Picture : Creating our own Account Determination Procedure**

**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define And Assign Account Determination Procedures -> Assign Account Determination Procedure**

Here we will assign our account determination procedure YPPIN0 to our customized billing type YF2

**Change View "Billing: Document Types - Account Determination": Overview**

BillT	Description	ActG/L	Description	CaAc	Name
YF2	Invoice	YPPIN0			

**Picture : Assign Account Determination Procedure**

#### 4.5 Define And Assign Account Keys

We define account keys here and allocate them to the condition types in the pricing procedures. We have already defined and assigned account keys to our pricing procedure PPIN01

**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Define And Assign Account Keys -> Assign Account Keys**

With the account keys, we group together similar accounts in financial accounting. Using the account key, system finds the relevant GL account.

**Change View "Pricing Procedures: Revenue Account Determination": Overview**

Proc.	Step	Cntr	CTyp	Name	ActKy	Name	AccrIs	Nr
PPIN01	11	0	PR00	Price	ERL	Revenue		Re
	13	0	PB00	Price (Gross)	ERL	Revenue		
	103	0	Y005	Customer/Material	ERS	Sales deductions		
	104	0	Y007	Customer Discount	ERS	Sales deductions		
	110	4	YB00	Discount (Value)	ERS	Sales deductions		
	810	3	YD00	Freight	ERF	Freight revenue		
	815	0	YF00	Freight	ERF	Freight revenue		
	910	0	UTXJ	Tax Jurisdiction Code	MWS	Taxes on s/s/purch.		
	911	0	JR1	Tax Jur Code Level 1	MWS	Taxes on s/s/purch.		
	912	0	JR2	Tax Jur Code Level 2	MWS	Taxes on s/s/purch.		
	913	0	JR3	Tax Jur Code Level 3	MWS	Taxes on s/s/purch.		
	940	0	VPRS	Internal price				

**Picture : Assign Account Keys**

#### 4.6 Assign G/L Accounts (VKOA)

Here based on the access sequence of tables for KOFI, we will select the table "001" Cust.Grp/MaterialGrp/AcctKey. Here we will assign all the relevant GL accounts.

<b>Assign G/L Accounts</b>	
Tab	Description
001	Cust.Grp/MaterialGrp/AcctKey
002	Cust.Grp/Account Key
003	Material Grp/Acct Key
004	General
005	Acct Key
015	Company Code / Condition Contract Type
016	Company Code / Contract Process Variant / Account Key
017	Sales Org./Item Cat./Acct Key
020	Account Key / Company Code / Compensation Reason
495	Document Category/Condition Type/Own-External/Account Key
496	Condition Type/Account Key
497	Document Category/Condition Type/Account Key
498	Doc. Category/Condition Type/Own-Ext./Actvty Type/Acc. Key
499	Doc. Cat./Cond. Type/Own-Ext./Acty Type/Ctlg Group/Acc. Key
501	Sales org./Division/Distr. Chl/Cond. Type/CoCode/Acct Key

**Picture : Assign G/L Accounts (VKOA)**

Below are the components for GL assignment

- **V (application) : Sales**
- **CndTy (condition type) : KOFI**
- **ChAc (chart of accounts) : PPIN**
- **Sorg (sales organization) : PA10**
- **AAG (customer account assignment group) : From our list**
- **AAG (material account assignment group) : From our list**
- **ActKy (account key) : The key from our procedure**
- **Assigned general ledger account : Relevant GL to the key selected above**

**SPRO -> IMG -> Sales and Distribution -> Basic Functions -> Account Assignment/Costing -> Revenue Account Determination -> Assign G/L Accounts**

We have created GL account corresponding to the every key of our pricing determination.

Now assign all the three GL accounts to the respective keys

**Picture : GL Assignment**

**Change View "Cust.Grp/MaterialGrp/AcctKey": Overview**

New Entries

Cust.Grp/MaterialGrp/AcctKey								
A...	CndTy.	Chrt/Accts	SOrg.	AA...	AA...	ActKy	G/L Account	Accruals Acc.
V	KOFI	PPIN	PA10	01	PA	ERF	552590000	
V	KOFI	PPIN	PA10	01	PA	ERL	441000000	
V	KOFI	PPIN	PA10	01	PA	ERS	444002000	

#### 4.7 Assign G/L Accounts For Tax Posting

Here we first create the tax account for output tax and assign this to the respective key (MWS)

GL 222000000 – PPIN-Output Tax (MWS) will be used to post tax amount.

**SPRO -> IMG -> Financial Accounting Global Settings -> Tax on Sales/Purchases -> Posting -> Define Tax Accounts**

**Change View "Posting Key": Overview**

Dialog Structure

- Posting Key
  - Rules
    - Accounts

Posting Key			
Trs	Debit	Credit	Name
MWS	40	50	Output tax
NAV	40	50	Non-deduct.input tax
NZ1	40	50	Entertainment tax
NZ2	40	50	Reduction

Picture : Tax Account Posting ....Part 1

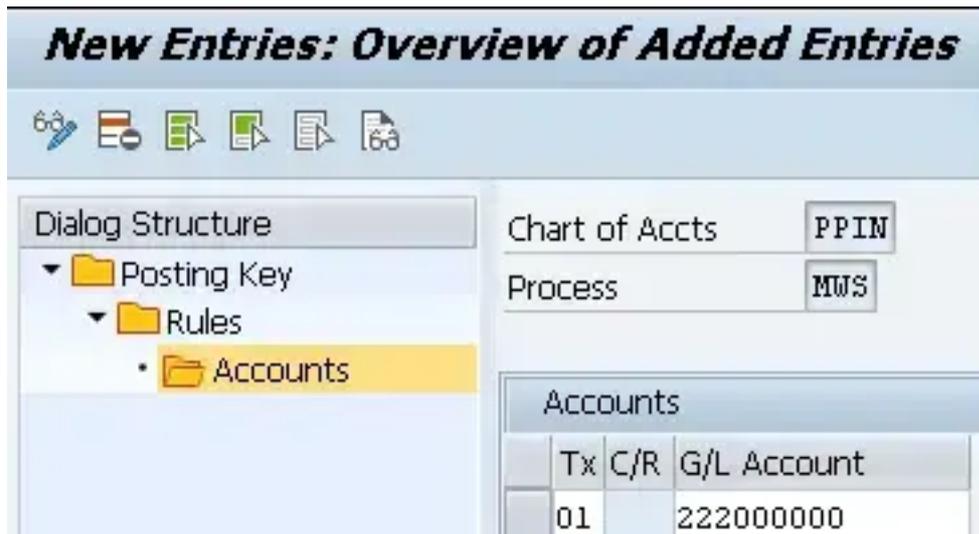
Dialog Structure

- Posting Key
  - Rules
    - Accounts

Transaction: MWS

Rules		
Ch...	Tax Code	C/R
PPIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Picture : Tax Account Posting ....Part 2



**Picture : Tax Account Posting ....Part 3**

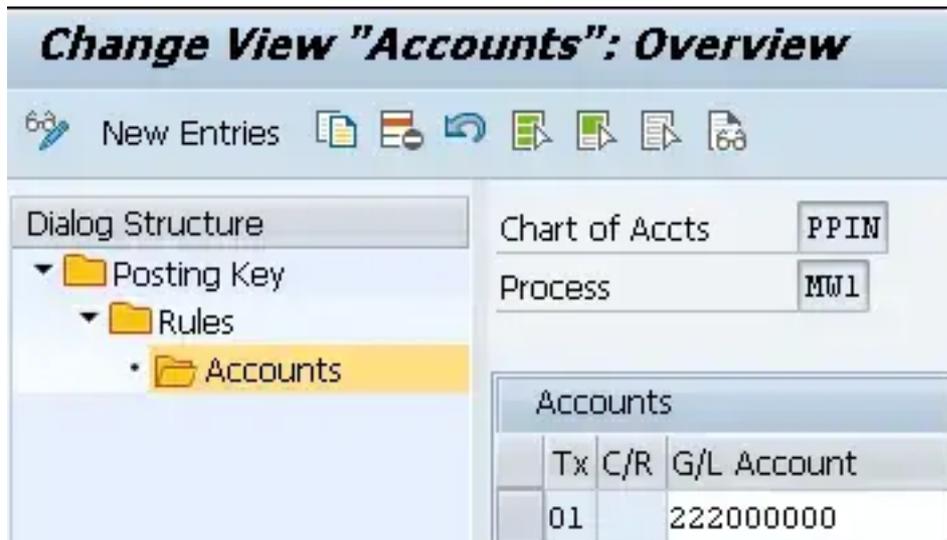
#### 4.8 Tax Accounts Keys MW1, MW2 & MW3

Since tax keys MW1, MW2 & MW3 are given in our output tax determination schema so system will post the tax amounts on the GL accounts corresponding to these three keys

We have given GL 222000000 for all the three tax keys



**Picture : Tax Account Posting..part 1**



Picture : Tax Account Posting..part 2

## 5. Create Billing

now the next part of the O2C cycle is to post the billing. At the time of billing system will post the respective values onto the determined & assigned GL accounts as per the revenue account determination procedure.

start VF01 and input our Outbound delivery number

Create the billing and click on

**Billing Documents → Release to Accounting**

system throws the below error

### 5.1 Error KI235 -GL requires an account assignment relevant to cost accounting

system throws the below error.

**Account 441000000 requires an account assignment relevant to cost accounting**

Message no. KI235

#### Diagnosis

You have not defined a CO account assignment for an account that is relevant to cost accounting.

--> The sales order and further any posting based on it (goods issue, billing, payment receipt) picks the profit center from the material master (costing view/sales org view).

--> Or we can assign Profit center to the revenue element or cost center to the other cost element in the transaction OKB9

To resolve this error we need to activate profit center accounting as well as cost center accounting for our controlling area.

#### 5.1.1 Profit Center Accounting

First we need to set our controlling area PPIN to set up Profit Center Accounting. Then we need to maintain the global settings for Profit Center Accounting in our controlling area PPIN.



**5.1.1.1 Controlling Area setting for Profit Center Accounting**

We will set our controlling area PPIN  
**SPRO -> IMG -> Controlling -> Profit Center Accounting -> Profit Center Accounting -> Set Controlling Area**

**Change View "EC-PCA: Controlling Area Settings": Overview**

6a ↶ ↷ 📄 📄 📄 📄

Controlling Area:  PP Inc Controlling Area

**Controlling Area Settings**

Dummy Profit Center:

Standard Hierarchy:  PP Inc Controlling Area

Elim. of Int. Business Vol.:

Pctr Local Currency Type:  Group currency

Profit Center Local Currency:

Store Transaction Currency:

Valuation View:  ▼

ALE Distribution Method:  ▼

**Control Indicators**

From Yr	Active Indicator
2022	<input type="checkbox"/>

**Picture : Controlling Area setting for Profit Center Accounting**

**5.1.1.2 Maintain Controlling Area setting**

Maintain the PPIN controlling area setting as below

**SPRO -> IMG -> Controlling -> Profit Center Accounting -> Controlling Area Settings-> Maintain Controlling Area Settings**

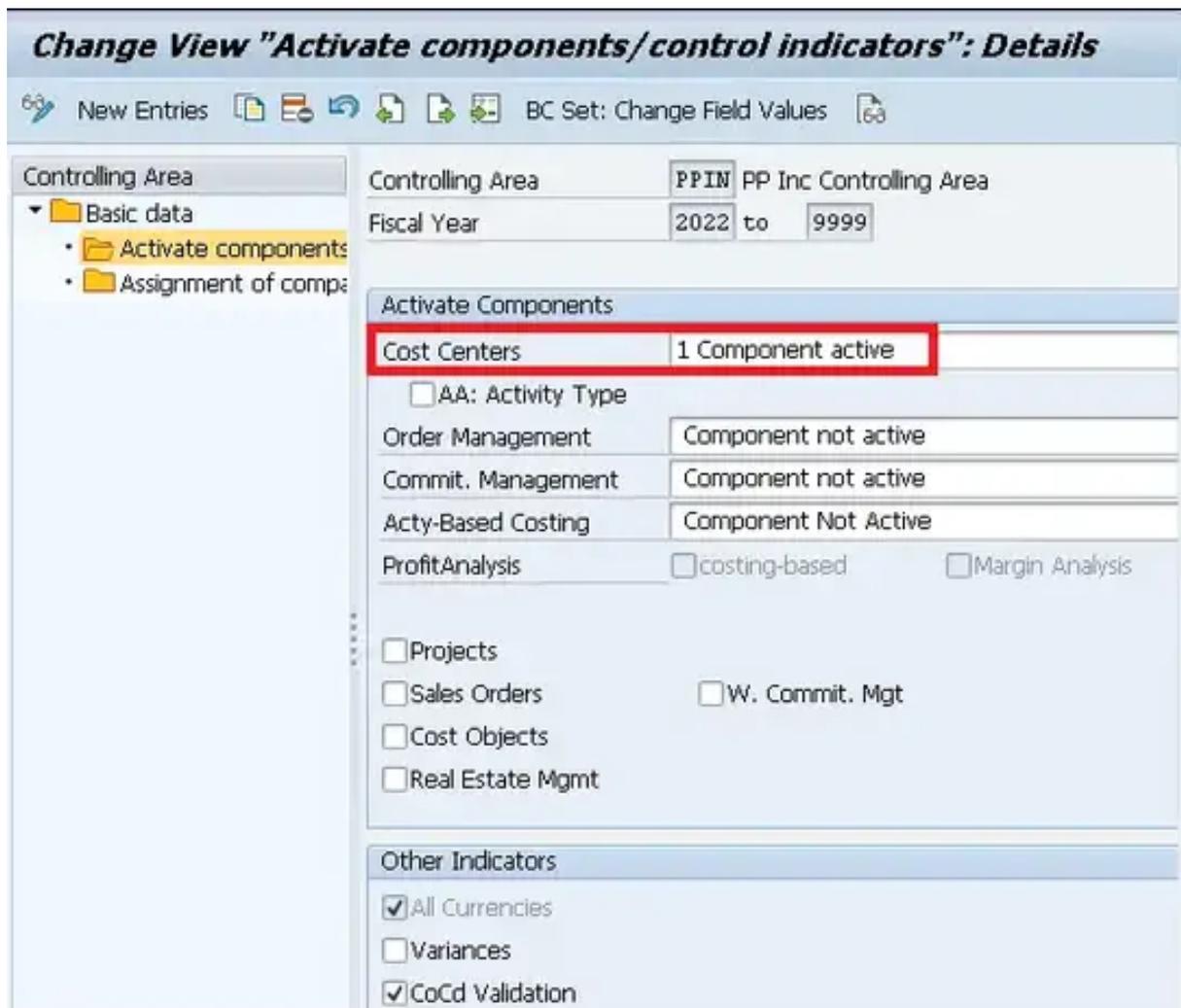
The screenshot shows the SAP 'Maintain Controlling Area Settings' interface. It is divided into several sections:

- General Data:** Contains fields for Profit Center (SALES), Controlling Area (PPIN), Validity Period (01.01.2022 to 31.12.9999), and PP Inc Controlling Area.
- Navigation Tabs:** Includes Basic Data, Indicators, Company Codes, Address, Communication, and History.
- Descriptions:** Contains fields for Profit Center (SALES), Status (Active), Analysis Period (01.01.2022 to 31.12.9999), Name (Revenue), and Long Text (Revenue).
- Basic Data:** Contains fields for User Responsible, Person Respons. (Pankaj), Department, Profit Ctr Group (PPIN), and Segment.

**Picture : Maintain Controlling Area Settings**

**5.1.2 Create Profit Center**

Run KE51 and created profit center "SALES"



**Picture : Create Profit Center**

**5.1.3 Cost Center Accounting**

we need to first activate cost center accounting on our controlling area.

**SPRO -> IMG -> Controlling -> Cost Center Accounting -> Activate Cost Center Accounting in Controlling Area**

activate for our controlling area PPIN

Cost Center	COST	cost
Controlling Area	PPIN	PP Inc Controlling Area
Valid From	14.03.2022	to 31.12.9999

Basic data
Control
Templates
Address
Communication
History

**Names**

Name

Description

**Basic data**

User Responsible

Person Responsible

Department

Cost Center Category  Logistics

Hierarchy area

Company Code  Pankaj Private IC Car INC

Business Area

Functional Area

Currency

Profit Center

**Picture : Activation of Cost Center Accounting in Controlling Area**

**5.3.1.1 Create Cost Center**

Start KS01 and create cost center "Cost"

**Change View "Default account assignment": Overview**

New Entries

Dialog Structure	CoCd	Cost Elem.	B...	Cost Ctr	Order	Prf...	Profit Ctr
<ul style="list-style-type: none"> <li>Default account assignm               <ul style="list-style-type: none"> <li>Detail per business ar</li> <li>Detail per profit cent</li> </ul> </li> </ul>	PA10	441000000	<input type="checkbox"/>			<input type="checkbox"/>	SALES
	PA10	444002000	<input type="checkbox"/>			<input type="checkbox"/>	SALES
	PA10	552590000	<input type="checkbox"/>	COST		<input type="checkbox"/>	

**Picture : Create Cost Center**

**5.2 Error KI235 -Resolution (OKB9)**

Since now we have created profit center & cost center so assign them to the respective cost element under OKB9 to resolve this error

Picture : OKB9

## 6. Create Billing – Retry after Error Resolution

Start VF01 and input outbound delivery number and press enter

**Invoice 90000029 (YF2) Change: Overview of Billing Items**

Accounting Billing Documents

YF2 Invoice: 90000029 Net Value: 47.00 USD  
 Payer: PA01CUST01 Houston Direct Auto / 4011 Jeanetta St / Houston T...  
 Billing Date: 14.03.2022

Item	Material	Item Description	Billed Quantity	SU	Net Value	Curr...
	1000000000000000000266	First PA10 Material for Car Deal...		1PC	47.00	USD

### Picture : Create Billing

Now go to

### Billing Documents → Release to Accounting

Billing document is successfully posted to accounting

### 6.1 Accounting Entries at Billing

Billing is now created and released to accounting

Display accounting document

**Display Document: Data Entry View**

Taxes Display Currency General Ledger View

Data Entry View

Document Number: 4000000001 Company Code: PA10 Fiscal Year: 2022  
 Document Date: 14.03.2022 Posting Date: 14.03.2022 Period: 3  
 Reference: 0090000029 Cross-Comp.No.:  
 Currency: USD Texts Exist:  Ledger Group:

CoCd	Item	Trs	Key S	Account	Description	Amount	Crcy	Tx
PA10	1		01	PA01CUST01	Houston Direct Auto	56.66	USD	O1
	2		50	441000000	PPIN-Revenue Domesti	30.00-	USD	O1
	3		40	444002000	PPIN-Sales Discounts	3.00	USD	O1
	4		50	552590000	PPIN-Freight Revenue	20.00-	USD	O1
	5	MW1	50	222000000	PPIN-Output Tax (MWS	5.64-	USD	O1
	6	MW2	50	222000000	PPIN-Output Tax (MWS	2.99-	USD	O1
	7	MW3	50	222000000	PPIN-Output Tax (MWS	1.03-	USD	O1

### Picture : Accounting entries at Billing

SD-FI integration completes here.

## Configure SAP S4 HANA Sales Documents

- 1. Sales Order Type
  - 1.1 YOR -PPIN Std. Sales Order
    - 1.1.1 Explanation of all fields chosen for YOR Order Type
      - 1.1.1.1 Fields in Main Header Area
        - a) SD Document Type
        - b) SD Document Category
        - c) SD Document Block
      - 1.1.1.2 Fields in “Number Systems” Sub-screen
        - a) No. Range Int.
        - b) No. Range Ext.
        - c) Item No. Increment
        - d) Subitem Increment
      - 1.1.1.3 Fields in “General Control” Sub-screen
        - a) Item Division
        - b) Check Division
        - c) Probability
        - d) Read Info-Record
        - e) Check Credit Limit
        - f) Enter PO number
        - g) Output Application
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      - 1.1.1.4 Fields in “Transaction flow” Sub-screen
        - a) Screen Sequence Grp
        - b) Display Range
        - c) Function code for overv.scr
        - d) Incompletion procedure
        - e) Transaction Group
        - f) Quotation messages
        - g) Doc. Pricing Proc.
        - h) Status profile
        - i) Message: Mast.contr.
        - j) ProdAttr.messages
        - k) Incomplet.messages
      - 1.1.1.5 Fields in “Scheduling agreement” Sub-screen
        - a) Corr.delivery type
        - b) Usage
        - c) MRP for DlvSchType
        - d) Delivery block
      - 1.1.1.6 Fields in “Shipping” Sub-screen
        - a) Delivery Type
        - b) Delivery Block
        - c) Shipping Conditions
        - d) Immediate delivery
      - 1.1.1.7 Fields in “Billing” Sub-screen
        - a) Dlv-rel.billing type
        - b) Order-rel.bill.type
        - c) Intercomp.bill.type
        - d) Billing block
        - e) CndType line items
        - f) Billing plan type
        - g) Paymt guarant. proc.
        - h) Paymt card plan type
        - i) Checking Group
      - 1.1.1.8 Fields in “Requested delivery date/pricing date/purchase order date” Sub-screen
        - a) Lead time in days
        - b) Propose Deliv.Date
        - c) Date type
        - d) Prop.f.pricing date



- 11.1.1.1 Copy Control for YOBD → YOR
    - 11.1.2 Item Copy
      - 11.1.2.1 Copy Control for TAN Item Category (YOR → YOBD)
      - 11.1.2.2 Copy Control for YTAN Item Category (YOR → YOBD)
  - 11.2 Copying Control: Delivery Document to Billing Document
    - 11.2.1 Header Data Copy
    - 11.2.2 Item Data Copy
  - 11.3 Copy Control for Inbound Delivery
- 12. Final config of flow YOR → YOBD → YF2
  - 12.1 Assignment of YOBD & YF2 to YOR

## 1. Sales Order Type

Sales document types control the functioning of sales document. For example, a returns order to receive goods back from a customer will function differently than a sales order or a quotation.

The sales document is comprised of three general levels of data and control:

- The sales document header, which is controlled by the sales document type
- The sales document item, which is controlled by the sales item category
- The sales document schedule line, which is controlled by the schedule line category

**We will configure our own sales document types to be used in full sales cycle**

**YOR (order) --> YOBD (delivery) --> YF2 (billing).**

We will configure our own, Sales Order type YOR.

### 1.1 YOR -PPIN Std. Sales Order

The sales document type controls the central header details of the sales order. Let's focus on the configuration of our standard basic sales order process to be used for our car business.

- The number assignment should be internal.
- Item numbering should have an increment of 10.
- Order entry should begin with the Item overview screen.
- Checking open quotations or contracts is not necessary.

- Billing document type F1– SAP Standard
- Requested delivery date to be proposed automatically with a lead time of 10 days.
- Pricing should be based on the current date.
- Automatically propose the current date as the customer reference date (Cust.Ref. Date) .

<b>IMG Menu</b>	<i>Sales and Distribution → Sales → <u>Sales Documents</u> → Sales Document Header → Define Sales Document Types</i>
<b>Transaction</b>	VOV8

**Picture : Path to configure Sales order type**

Configuration of Sales order type with minimum possible fields but we will explain all the fields

**1.1.1 Explanation of all fields chosen for YOR Order Type**

First we will explain all the fields given on the top areas (shown in below screenshot)

**1.1.1.1 Fields in Main Header Area**

There are total 4 fields in this area given below

Sales Document Type	YOR	PPIN Std.Sales Order	
SD Document Category	C		Sales Document Block <input type="checkbox"/>
Indicator	<input type="checkbox"/>		

**Picture : Fields in Main Header Area**

a) SD Document Type

Give our customized name here . We have chosen YOR – PPIN Std. Sales Order

## b) SD Document Category

The document category is C, meaning a sales order document type, rather than a quote, etc.

## c) SD Document Block

The sales document is not blocked for processing so can be used by the business.

### 1.1.1.2 Fields in “Number Systems” Sub-screen

There are a total of 4 fields in this area .

Number systems			
No. Range Int. Asst	<input type="text" value="01"/>	Item No. Increment	<input type="text" value="10"/>
No. Range Ext. Asst	<input type="text" value="02"/>	Subitem Increment	<input type="text" value="10"/>

**Picture : Fields in “Number Systems” Sub-area**

#### a) No. Range Int.

Internal number range interval is 01.

#### b) No. Range Ext.

We have configured Ext no. range 02 for our order type.

#### c) Item No. Increment

The items in the sales order increase in increments of 10

#### d) Subitem Increment

the sub-items increase in intervals of 10.

#### 1.1.1.3 Fields in “General Control” Sub-screen

Below fields are present in this area.

General control	
Reference mandatory	<input type="checkbox"/>
Check division	<input type="text" value="2"/>
Probability	<input type="text" value="100"/>
Check credit limit	<input type="checkbox"/>
Credit group	<input type="text"/>
Output application	<input type="text" value="V1"/>
Material entry type	<input type="checkbox"/>
<input checked="" type="checkbox"/> Item division	
<input checked="" type="checkbox"/> Read info record	
Check Customer Ref	<input type="checkbox"/>
<input type="checkbox"/> Enter PO number	
Commitment date	<input type="checkbox"/>
<input type="checkbox"/> Disp. Preceding Docs	

Picture : Fields in “General Control” Sub-area

#### a) Item Division

The division of the material or item is not to be copied into the sales order.

#### b) Check Division

There is a check with an error message to see if this division is equal to the header division. for our YOR it will raise an error if it is not equal.

#### c) Probability

The probability of this order being completed and fulfilled is 100 percent.

d) Read Info-Record

The system must read the customer material info record, should one exist.

e) Check Credit Limit

The credit limit check field is blank, which means no check.

f) Enter PO number

Blank means -The system must not check the purchase order number for our "YOR" order type

g) Output Application

The output application is assigned for sales. We assigned standard V1 for our order

h) Commitment Date

The commitment date is not checked. The commitment date will be recalculated if changes are made to the material, quantity, requested delivery date, or delivery time.

**1.1.1.4 Fields in "Transaction flow" Sub-screen**

Below fields are present in this area

Transaction flow				
Screen sequence grp.	<input type="text" value="AU"/>	Sales Order	Display Range	<input type="text" value="UALL"/>
Incompl. Proced.	<input type="text" value="11"/>	Standard Order	FCode for overv.scr.	<input type="text" value="UER1"/>
Transaction group	<input type="text" value="0"/>	Sales Order	Quotation Messages	<input type="checkbox"/>
Doc. Pricing Proc.	<input type="text" value="A"/>		Outline Agrmt Mess.	<input type="checkbox"/>
Status profile	<input type="text"/>		Message: Mast.contr.	<input type="checkbox"/>
Alt.sales doc. type1	<input type="text"/>		ProdAttr.messages	<input type="text" value="A"/>
Alt.sales doc. type2	<input type="text"/>		<input type="checkbox"/> Incomplet.messages	
Variant	<input type="text"/>			

**Picture : Fields in “Transaction flow” Sub-area**

a) Screen Sequence Grp

The screen sequence group controls the way data is displayed, and in what sequence.

b) Display Range

The display range determines what items in the sales order are displayed—We have selected UALL All items

c) Function code for overv.scr

The function code for overview screens is the function code that determines what data and layout you see in the sales order—for example, item overview or item detail.

d) Incompletion procedure

We have selected std incompletion procedure “11” for our YOR Sales Document

e) Transaction Group

The transaction group determines what indices must be updated with reference to this sales order. "0" means order.

f) Quotation messages

For our order type since we have not configured quotation process so we have set as "Do not Check".

**HINT**

Quotation messages and contract messages are set with an indicator B. Quotations, contracts, and master contracts are the three preceding key document types. So when you create a sales order you may want the system to give you a warning if open quotations exist. This setting B checks to see if the item is available on any other quotations or contracts for this Sold-to Party. Perhaps the user would then create the order with reference to that quotation or contract.

g) Doc. Pricing Proc.

At present we have defaulted "A" for our order type. We will input our customized value for this field after configuration of pricing procedure.

**HINT**

The document pricing procedure is this indicator plus the indicator on the customer master and the relevant sales area these determine which pricing procedure to use.

Note:

Please see the below screenshot after completion of pricing procedure. Please click [HERE](#) to check the pricing procedure configuration

Transaction flow				
Screen sequence grp.	AU	Sales Order	Display Range	UALL
Incompl. Proced.	11	Standard Order	FCode for overv.scr.	UER2
Transaction group	0	Sales Order	Quotation Messages	<input type="checkbox"/>
<b>Doc. Pricing Proc.</b>	<b>PS</b>		Outline Agrmt Mess.	<input type="checkbox"/> <input type="checkbox"/>
Status profile			Message: Mast.contr.	<input type="checkbox"/>
Alt.sales doc. type1			ProdAttr.messages	<input type="checkbox"/>
Alt.sales doc. type2			<input type="checkbox"/> Incomplet.messages	
Variant				

Picture : Assignment of Document Pricing Procedure to order type

#### h) Status profile

Status profile is used to assign a status profile to the particular document type. It is also assigned at item category level. For our Document type it is blank i.e. we have not assigned any.

#### i) Message: Mast.contr.

We have used blank means “Do Not Check”.

##### **HINT**

Message master contract checks to determine if any master contracts exist while you are creating a document type “contract.”

#### j) ProdAttr.messages

We have chosen “A -Dialog”

##### **HINT**

With product attribute messages, the system can error or warn to check manually entered products for the attributes to see if the Ship To party accepts them. In the case of automatic material entry, such as material determination, this check is ignored.

#### k) Incomplet.messages

With the incomplete messages indicator blank for our order type, the system will inform at the time of saving that the document is incomplete. However, we will still be able to save the document.

#### **1.1.1.5 Fields in “Scheduling agreement” Sub-screen**

The scheduling agreement area is used by scheduling agreement document types. Below fields are present in this sub-screen

The screenshot shows a sub-screen titled "Scheduling Agreement". It contains four input fields arranged in a grid-like fashion. The first row has "Corr.delivery type:" followed by a text box and "Delivery block:" followed by a text box. The second row has "Usage:" followed by a text box. The third row has "MRP for DivSchType:" followed by a text box. All text boxes are currently empty.

**Picture : Fields in “Scheduling agreement” Sub-screen**

a) Corr.delivery type

The correction delivery type is used for scheduling agreements. it is blank as we not configuring scheduling agreement.

b) Usage

This field is blank for our order type

**HINT**

The usage field is used to indicate on the sales order what the customer uses the material for. This entry will be copied into all items, or it may be placed into items individually in the sales order.

c) MRP for DivSchType

It is blank for our order type means Delivery schedules are not used.

**HINT**

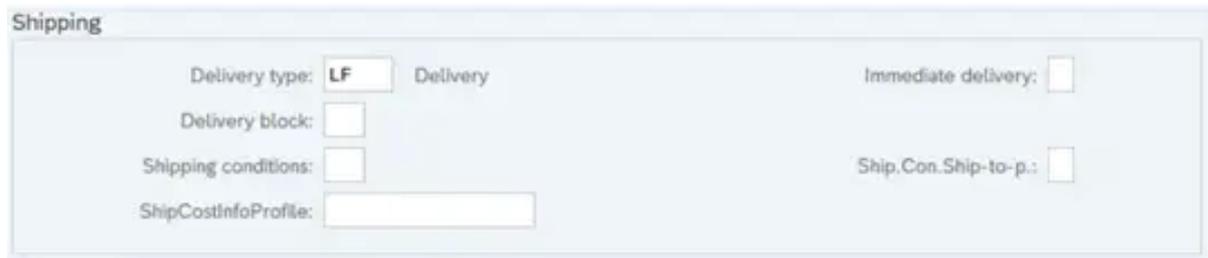
MRP for delivery schedule type is used for scheduling agreements in order for them to set if the system should use just in time (JIT) processing or forward the demands on to material requirements planning (MRP).

d) Delivery block

Delivery blocks can be automatically set for scheduling agreements. A blank entry indicates no delivery block.

**1.1.1.6 Fields in “Shipping” Sub-screen**

Below fields are present in this subscreen



Shipping

Delivery type:  Delivery

Immediate delivery:

Delivery block:

Shipping conditions:

Ship, Con. Ship-to-p.:

ShipCostInfoProfile:

**Picture : Fields in “Shipping” Sub-screen**

a) Delivery Type

This field indicates that this document type is relevant for delivery, and the delivery type to be used for automatic processing is LF.

**HINT**

At present we are giving SAP standard delivery type here, but later on we will swap it with our own delivery type.

b) Delivery Block

We have chosen blank means there is no automatic delivery block entered in the sales order.

c) Shipping Conditions

It is blank for our order type. Means for this order type shipping conditions are to be taken from customer master records.

**HINT**

The shipping conditions are proposed by the customer master record. Should an entry have existed in this field, this entry would have taken precedence and overwritten those found on the customer master record. The shipping condition value is used to determine the shipping point.

d) Immediate delivery

We have chosen blank means “Create delivery separately” i.e. we do not want immediate delivery for our order type.

**HINT**

The immediate delivery indicator is not set. This flag creates a delivery automatically immediately after saving the sales order. The delivery is not completed and the picking, packing (if relevant), and goods issue must still be carried out.

**1.1.1.7 Fields in “Billing” Sub-screen**

Below fields are present in billing sub-screen

Billing				
Dlv-rel.billing type	<input type="text" value="F2"/>	Invoice	CndType line items	<input type="text" value="EK02"/>
Order-rel.bill.type	<input type="text" value="F2"/>	Invoice	Billing plan type	<input type="text" value=""/>
Intercomp.bill.type	<input type="text" value="IV"/>	Intercompany Billing	Paymt guarant. proc.	<input type="text" value="01"/>
Billing block	<input type="checkbox"/>		Paymt card plan type	<input type="text" value="03"/>
			Checking group	<input type="text" value="01"/>

**Picture : Fields in “Billing” Sub-screen**

a) Dlv-rel.billing type

This document is relevant for invoicing and for delivery-related invoicing, the system automatically uses invoice document type F2. We will change later this to our customized billing type.

b) Order-rel.bill.type

When an order-related invoice is possible the system will use document type F2 for automatic processing as well. (This makes sense if you wish your order and delivery relevant products to be invoiced at the same time.)

c) Intercomp.bill.type

The inter-company billing document type for automatic processing is IV.

d) Billing block

There is no automatic posting of a billing block on our sales order.

**HINT**

It may be necessary, however, to have a billing block for credit notes. This means that the order cannot be billed until the billing block is removed. Using a billing block is a safety feature. For example, you may have a background job that creates invoices. When you save the order, this background job will see the order and then invoice it if it is for order-related billing. Using the billing block will prevent this from happening until the order has been checked and the billing block explicitly removed.

e) CndType line items

We have assigned std "EK02". The condition type for line items is used to determine the costing of the line item. It must be equal to the condition type allocated on your pricing procedure.

f) Billing plan type

It is blank for our order type as we are not using any billing plan.

**HINT**

The billing plan type is either periodic billing, where the entire value to be billed to date is billed in full on the billing plan date (for example, a rental agreement), or milestone billing, where the total value to be billed is distributed between the individual billing plan dates (for example, for a project based on project milestones, where the value billed on each date can be a fixed amount or a percentage).

g) Paymt guarant. proc.

We used "01-Standard"

**HINT**

Payment guarantee procedure indicates to the system what form of guarantee procedure to use for this sales document. These are risk management.

h) Paymt card plan type

We used "03-Payment Card"

**HINT**

Payment card plan type is an essential setting should you want your system to accept payment cards in the sales order process.

i) Checking Group

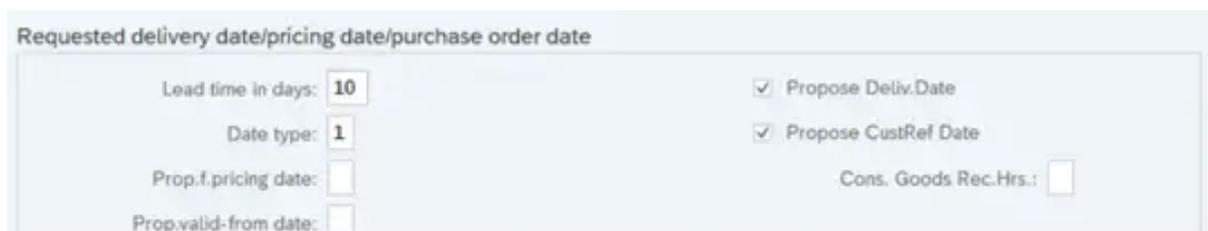
We used "01-Standard"

**HINT**

Checking group is used to determine how the system carries out the checking of payment card data

**1.1.1.8 Fields in "Requested delivery date/pricing date/purchase order date" Sub-screen**

These settings affect the requested delivery date



Requested delivery date/pricing date/purchase order date

Lead time in days:	<input type="text" value="10"/>	<input checked="" type="checkbox"/> Propose Deliv.Date
Date type:	<input type="text" value="1"/>	<input checked="" type="checkbox"/> Propose CustRef Date
Prop.f.pricing date:	<input type="text"/>	Cons. Goods Rec.Hrs.: <input type="text"/>
Prop.valid-from date:	<input type="text"/>	

**Picture : Fields in "Requested delivery date/pricing date/purchase order date" Sub-screen**

a) Lead time in days

Lead time in days is the requested delivery date in the sales order. we have selected 10 days for our order type.

b) Propose Deliv.Date

The propose delivery date checkbox is checked to propose the current date as the delivery date. We have selected this for our order type.

c) Date type

Date type allows the user to set the format of the delivery schedule line date for internal system use—for example, date, week, month, etc. We have chosen 1 which is “Day”

d) Prop.f.pricing date

Proposal for pricing date allows you to specify the valid-from date for the pricing of the reference document, or the requested delivery date, or the current date. we have selected blank which means “Proposal based on today’s date”

e) Prop.valid-from date

Propose valid-from date allows you to determine when the valid-from date for pricing should be. This is used, for example, in quotations. We have chosen blank means “No Proposal”

### 1.1.1.8 Fields in “Contract & Availability Check” Sub-screen

Below are the fields in this sub-screen

The screenshot displays a software interface with two main sections: 'Contract' and 'Availability check'. The 'Contract' section contains several input fields and checkboxes:

- PricProcCondHeadr:
- PricProcCondItem:
- Contract profile:
- Billing request:
- Group Ref. Procedure:
- Contract data allwd.:
- FollUpActivityType:
- Subseq.order type:
- Check partner auth.:
- Update low.lev.cont.

The 'Availability check' section contains one input field:

- Business transaction:

**Picture : Fields in “Contract & Availability Check” Sub-screen**

Since we have not configured contract so we are skipping this last section

## 2. Item Category of Sales Documents

The sales item category is one of the most important fields in the SAP sales order. It controls the sales document flow and also impacts the schedule line category. Item Category realizes different business processes for each item in the sales document.

Item Category decides below behaviour of the materials in the sales documents

- **Relevance for billing of an item** – The value determines what kind of billing document it has to generate for this item. That is order related billing document or delivery related billing document.
- **Billing block** – The billing block indicator is used to block each item of this category for billing.
- **Pricing relevance** – It indicates whether the system automatically carried out pricing for this item.
- **Business data relevance item** -It allows the business data at header level differs with item level business data.
- **Schedule line allowed** – It indicates whether we can create schedule lines for the item.
- **Item relevant for delivery** -It indicates whether a text or value item is relevant during delivery processing. The item itself is not delivered. But it serves only for information purpose in delivery documents.
- **Returns** – It indicates the item is return item
- **Determine cost** – This indicator enables the system to calculate cost of the material of this item category (condition type VPRS is used to calculate the cost price).
- **Credit active** – This indicator enables to configure credit management functions for this item.
- **Incompletion procedure** – We will configure Incompletion procedure in IMG and assign to item category. System reminds the end user if he does not maintain any values at item category level in the sales document.
- **Partner determination procedure** – This decides at item level and decides itself sold to party, ship to party, bill to party or payer for this item.
- **Structure scope (relevant for bill of material explosion)** – The value of this field determines whether the item is a BOM item. If it is so, how it should be exploded.
- **Value contract material** – The system copies value contract item that we specified here into the value contract.
- **Contract release control** – Here we can specify the system responses when the target value of value contract has been reached while releasing the contract.

We will configure below Item Categories for our car business sales documents. Second table is for purchasing documents (STOs)

Item Category	Description
---------------	-------------

YTAN	Standard item
FREE	Free-of charge item
YTAP	Pric.at Item Level
YTAQ	Pric.at Header Level
TEXT	Text Item
YSER	Service

#### Sales Doc Item Categories

Item Category	Description
YNLN	StandStockTransItem
YULN	StandStockTransItem
YNLC	InterCo Stock Tr.Itm

#### STOs Item Categories

As we have decided earlier, we will configure first only most widely used sales process i.e. Sales to customer & STO.

Let's first configure Standard item category for customer sales order.

<b>IMG Menu</b>	<i>Sales and Distribution → Sales → Sales Documents → Sales Document Item → Define Item Categories</i>
<b>Transaction Code</b>	SPRO

Picture : Path to configure item category

## 2.1 Item Category YTAN-Standard Item

**Change View "Maintain Item Categories": Details**

New Entries      

Item category

**Business Data**

Item Type	<input type="checkbox"/>	<input checked="" type="checkbox"/> Business Item
Completion Rule	<input type="checkbox"/>	<input checked="" type="checkbox"/> Sched.Line Allowed
Special Stock	<input type="checkbox"/>	<input type="checkbox"/> Item Relev.for Div
Billing Relevance	<input type="text" value="A"/>	<input type="checkbox"/> Returns
Billing Plan Type	<input type="checkbox"/>	<input checked="" type="checkbox"/> Wght/Vol.Relevant
Billing Block	<input type="checkbox"/>	<input type="checkbox"/> Credit Active
Pricing	<input type="text" value="X"/>	<input checked="" type="checkbox"/> Determine Cost
Statistical Value	<input type="checkbox"/>	
Revenue Recognition	<input type="checkbox"/>	
Delimit. Start Date	<input type="checkbox"/>	

**General Control**

Autom.batch determ.       Rounding permitted       Order qty = 1

RBA Control

Picture : Configuration of standard item category

## 2.2 Item Category YNLC – Inter Company Stock Transport Item

Item category: **YNLC** InterCo Stock Tr.Itm

---

**Business Data**

Item Type: <input type="checkbox"/>	<input type="checkbox"/> Business Item
Completion Rule: <input type="checkbox"/>	<input type="checkbox"/> Sched.Line Allowed
Special Stock: <input type="checkbox"/>	<input type="checkbox"/> Item Relev.for Dlv
Billing Relevance: <b>D</b>	<input type="checkbox"/> Returns
Billing Plan Type: <input type="checkbox"/>	<input checked="" type="checkbox"/> Wght/Vol.Relevant
Billing Block: <input type="checkbox"/>	<input type="checkbox"/> Credit Active
Pricing: <b>X</b>	<input checked="" type="checkbox"/> Determine Cost
Statistical Value: <input type="checkbox"/>	
Revenue Recognition: <input type="checkbox"/>	
Delimit. Start Date: <input type="checkbox"/>	

**Picture : Configuration of STO Item Category YNLC**

### 2.3 Item Category YNLN – Standard Stock Transport Item

Item category: **YNLN** StandStockTransItem

---

**Business Data**

Item Type: <input type="checkbox"/>	<input checked="" type="checkbox"/> Business Item
Completion Rule: <input type="checkbox"/>	<input checked="" type="checkbox"/> Sched.Line Allowed
Special Stock: <input type="checkbox"/>	<input type="checkbox"/> Item Relev.for Dlv
Billing Relevance: <b>J</b>	<input type="checkbox"/> Returns
Billing Plan Type: <input type="checkbox"/>	<input checked="" type="checkbox"/> Wght/Vol.Relevant
Billing Block: <input type="checkbox"/>	<input type="checkbox"/> Credit Active
Pricing: <input type="checkbox"/>	<input type="checkbox"/> Determine Cost
Statistical Value: <input type="checkbox"/>	
Revenue Recognition: <input type="checkbox"/>	
Delimit. Start Date: <input type="checkbox"/>	

**Picture : Configuration of STO Item Category YNLN**

## 2.4 Item Category YULN – Standard Stock Transport Item

Item category: YULN StandStockTransItem

**Business Data**

Item Type:	<input type="checkbox"/>	<input checked="" type="checkbox"/> Business Item
Completion Rule:	<input type="checkbox"/>	<input checked="" type="checkbox"/> Sched.Line Allowed
Special Stock:	<input type="checkbox"/>	<input type="checkbox"/> Item Relev.for Dlv
Billing Relevance:	D	<input type="checkbox"/> Returns
Billing Plan Type:	<input type="checkbox"/>	<input checked="" type="checkbox"/> Wght/Vol.Relevant
Billing Block:	<input type="checkbox"/>	<input type="checkbox"/> Credit Active
Pricing:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Determine Cost
Statistical Value:	<input type="checkbox"/>	
Revenue Recognition:	<input type="checkbox"/>	
Delimit. Start Date:	<input type="checkbox"/>	

Picture : Configuration of STO Item Category YULN

## 2.5 Item Categories to be used in the Inbound Deliveries

Please note that item category for inbound delivery needs to be maintained as a sales item category also, though item category will never have a sales order reference.

### 2.5.1 Reason of Inbound Delivery Item category configuration as sales document item category too.

For our car business inbound delivery, we will configure item category as “YELN”. We will define same item category key as “YELN” as a sales document item category also.

The reason for this is given below

--> Delivery item category key must be the same key as order item category.

--> So we must define all delivery item categories as sales item categories in Sales and Distribution even for inbound

delivery item category which is never found in sales documents.

--> This is required for the system to create a copying relationship between the order and delivery document at the item level. For example DL/YELN to YEL/YELN.

## 2.5.2 Standard Inbound Delivery Item Category YELN

Standard inbound delivery items which will follow standard inbound process we will configure item category as YELN.

Below is the configuration of all fields for standard item category YELN

The screenshot shows the SAP configuration screen for item category YELN. The title is "Change View 'Maintain Item Categories': Details". The item category is set to YELN and the description is "Inbound Delivery PPL". The configuration is divided into two sections: Business Data and General Control.

Business Data	
Item Type	<input type="checkbox"/>
Completion Rule	<input type="checkbox"/>
Special Stock	<input type="checkbox"/>
Billing Relevance	<input type="checkbox"/>
Billing Plan Type	<input type="checkbox"/>
Billing Block	<input type="checkbox"/>
Pricing	<input type="checkbox"/>
Statistical Value	<input type="checkbox"/>
Revenue Recognition	<input type="checkbox"/>
Delimit. Start Date	<input type="checkbox"/>
<input type="checkbox"/> Business Item	
<input type="checkbox"/> Sched.Line Allowed	
<input type="checkbox"/> Item Relev. for Dlv	
<input type="checkbox"/> Returns	
<input checked="" type="checkbox"/> Wght/Vol.Relevant	
<input type="checkbox"/> Credit Active	
<input type="checkbox"/> Determine Cost	

General Control		
<input type="checkbox"/> Autom.batch determ.	<input type="checkbox"/> Rounding permitted	<input type="checkbox"/> Order qty = 1
RBA Control	<input type="checkbox"/>	

Picture : Configuring Inbound Delivery Item category as sales document item category also Screen

Transaction Flow		
Incompletion Proced.	<input type="checkbox"/>	Screen Seq.Grp <input type="text"/>
PartnerDetermProced.	<input type="checkbox"/>	LG Partners
TextDetermProcedure	<input type="checkbox"/>	Status Profile <input type="text"/>
Item Cat.Stats.Group	<input type="checkbox"/>	<input type="checkbox"/> Create PO Automatic.

Bill of Material/Configuration		
Config. Strategy	<input type="checkbox"/>	
Mat. Variant Action	<input type="checkbox"/>	<input type="checkbox"/> Variant Matching
ATP material variant	<input type="checkbox"/>	
Structure scope	<input type="checkbox"/>	Propagate Prof. Sgmt <input type="checkbox"/> Create Delivery Group <input type="checkbox"/>
Application	<input type="text"/>	<input type="checkbox"/> Manual Alternative
		<input type="checkbox"/> Param. effectivities

### Change View "Maintain Item Categories": Details

 New Entries
 






Item category

Business Data		
Item Type	<input type="checkbox"/>	<input type="checkbox"/> Business Item
Completion Rule	<input type="checkbox"/>	<input type="checkbox"/> Sched.Line Allowed
Special Stock	<input type="checkbox"/>	<input type="checkbox"/> Item Relev.for Dlv
Billing Relevance	<input type="checkbox"/>	<input type="checkbox"/> Returns
Billing Plan Type	<input type="checkbox"/>	<input checked="" type="checkbox"/> Wght/Vol.Relevant
Billing Block	<input type="checkbox"/>	<input type="checkbox"/> Credit Active
Pricing	<input type="checkbox"/>	<input type="checkbox"/> Determine Cost
Statistical Value	<input type="checkbox"/>	
Revenue Recognition	<input type="checkbox"/>	
Delimit. Start Date	<input type="checkbox"/>	

General Control		
<input type="checkbox"/> Autom.batch determ.	<input type="checkbox"/> Rounding permitted	<input type="checkbox"/> Order qty = 1
RBA Control <input type="checkbox"/>		

Picture : Configuring Inbound Delivery Item category as sales document item category also Screen 2

### 2.5.3 Inbound Delivery Item Category for Spares YSPR

Since spares will follow a special inbound business process compare to the other standard line item of the standard inbound deliveries so we will configure a special line item category YSPR for spares.

We have configured YSPR as per below

Item category	YSPR	IBD -Spare Parts
<b>Business Data</b>		
Item Type	<input type="checkbox"/>	<input type="checkbox"/> Business Item
Completion Rule	<input type="checkbox"/>	<input type="checkbox"/> Sched.Line Allowed
Special Stock	<input type="checkbox"/>	<input type="checkbox"/> Item Relev.for Dlv
Billing Relevance	<input type="checkbox"/>	<input type="checkbox"/> Returns
Billing Plan Type	<input type="checkbox"/>	<input checked="" type="checkbox"/> Wght/Vol.Relevant
Billing Block	<input type="checkbox"/>	<input type="checkbox"/> Credit Active
Pricing	<input type="checkbox"/>	<input type="checkbox"/> Determine Cost
Statistical Value	<input type="checkbox"/>	
Revenue Recognition	<input type="checkbox"/>	
Delimit. Start Date	<input type="checkbox"/>	
<b>General Control</b>		
<input type="checkbox"/> Autom.batch determ.	<input type="checkbox"/> Rounding permitted	<input type="checkbox"/> Order qty = 1
RBA Control	<input type="checkbox"/>	
<b>Transaction Flow</b>		
Incompletion Proced.	<input type="checkbox"/>	Screen Seq.Grp <input type="text"/>
PartnerDetermProced.	<input type="checkbox"/>	Status Profile <input type="text"/>
TextDetermProcedure	<input type="checkbox"/>	<input type="checkbox"/> Create PO Automatic.
Item Cat.Stats.Group	<input type="checkbox"/>	

Picture; Configuration of Inbound Delivery Item Category for Spares YSPR

## 3. Item Category Determination in Sales Documents

Item category group field of the material master is the main factor to determine the item category in the sales order. This indicator + Sales document type + usage of the

item category + Item category of higher-level item decides the item category in the sales order document. Item category is determined as per below combination in sales documents

<b>Item Category =</b>	<b>Sales Document Type</b>	<b>+ Item Category Group</b> {Material master}	<b>+ Item Usage</b> (if any)	<b>+ Item Category of Higher Level Item</b> (if any)
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**Picture : Sales Order Item Category Determination**

<b>IMG Menu</b>	Sales and Distribution → Sales → Sales Documents → Sales Document Item → Assign Item Categories
<b>Transaction Code</b>	SPRO

**Picture : Path to Configure Sales Order Item Category Determination**

We have configured our item categories as below

	SaTy	ItCGr	Usge	HLevlItCa	DfltC	MltCa	MltCa	MltCa
<input type="checkbox"/>	YOR	NORM			YTAN			
<input type="checkbox"/>	YOR	NORM		YTAN	FREE			
<input type="checkbox"/>	YOR	NORM		YTAP	YTAN			
<input type="checkbox"/>	YOR	NORM		YTAQ	YTAE			

**Picture : Sales Order Item Category Determination Configuration**

## 4. Schedule Line Categories

As we have seen in previous heading, An item category controls how the document item behaves. Each item is split into one or more schedule lines, which represents when the item will be delivered. For example, an order for 50 units may be delivered over 2 different weeks—25 units per week

As a connection to the inventory management, A movement type can be defined in the schedule line category.

--> Normal items are made delivery relevant at the level of the schedule line.

--> Text & value items are made delivery relevant in the order item category.

Schedule line controls the below main functions

- **Delivery Block** – We can specify delivery block that the system applies automatically during processing. For example-free of charge deliveries as these documents have to be approved before processing.
- **Movement type** – Movement type for Inventory Management.
- **Item relevant for delivery** – If item is relevant for delivery.
- **Req/Assembly** – Requirements of sales document should be transfer to MRP by system automatically to create demand
- **Availability** – Availability check for materials and quantities in the sales order
- **Product Allocation** – To allocate products for customers evenly

Below schedule line are configured for our car business

- **YP** – MRP
- **YV** – Consumption MRP
- **YN** – No Material Planning

<b>IMG Menu</b>	<i>Sales and Distribution → Sales → Sales Documents → Schedule Lines → Define Schedule Line Categories</i>
<b>Transaction Code</b>	V0V6

Picture : Path to configure Schedule Lines

#### 4.1 YP -MRP

Sched.line cat.: YP MRP

---

**Business data**

Delivery Block:	<input type="checkbox"/>		
Movement type:	601	GD goods issue:delvy	<input checked="" type="checkbox"/> Item rel.f.dlv.
Movement Type 1-Step:	<input type="checkbox"/>		
Order Type:	<input type="checkbox"/>		<input type="checkbox"/> P.req.del.sched
Item category:	<input type="checkbox"/>		<input type="checkbox"/> Ext.capa. planning
Acct Assgmt Cat:	<input type="checkbox"/>		
Update Sched. Lines:	<input type="checkbox"/>	No Update	<input type="checkbox"/> Upd. Sched
MvT Iss. Val. SiT:	<input type="checkbox"/>		
Spec.Iss. Val. SiT:	<input type="checkbox"/>		

---

**Transaction flow**

Incompl.Proced.:	30	General Sched. Line
<input checked="" type="checkbox"/>	Req./Assembly	
<input checked="" type="checkbox"/>	Availability	

**Picture : configuration of YP Schedule Lines Category**

## 4.2 YV – Consumption MRP

\* Sched.line cat.:

**Business data**

Delivery Block:	<input type="checkbox"/>		
Movement type:	<input type="text" value="601"/>	GD goods issue:delvy	<input checked="" type="checkbox"/> Item rel.f.dlv.
Movement Type 1-Step:	<input type="checkbox"/>		
Order Type:	<input type="checkbox"/>		<input type="checkbox"/> P.req.del.sched
Item category:	<input type="checkbox"/>		<input type="checkbox"/> Ext.capa. planning
Acct Assgmt Cat:	<input type="checkbox"/>		
Update Sched. Lines:	<input type="checkbox"/>	No Update	<input type="checkbox"/> Upd. Sched
MvT Iss. Val. SiT:	<input type="checkbox"/>		
Spec.Iss. Val. SiT:	<input type="checkbox"/>		

Picture : configuration of YV Schedule Lines Category

### 4.3 YN – No Material Planning

Sched.line cat.:

**Business data**

Delivery Block:	<input type="checkbox"/>		
Movement type:	<input type="text" value="601"/>	GD goods issue:delvy	<input checked="" type="checkbox"/> Item rel.f.dlv.
Movement Type 1-Step:	<input type="checkbox"/>		
Order Type:	<input type="checkbox"/>		<input type="checkbox"/> P.req.del.sched
Item category:	<input type="checkbox"/>		<input type="checkbox"/> Ext.capa. planning
Acct Assgmt Cat:	<input type="checkbox"/>		
Update Sched. Lines:	<input type="checkbox"/>	No Update	<input type="checkbox"/> Upd. Sched
MvT Iss. Val. SiT:	<input type="checkbox"/>		
Spec.Iss. Val. SiT:	<input type="checkbox"/>		

Picture : configuration of YN Schedule Lines Category

## 5. Schedule Line Categories Determination

Schedule line category is determined based on the item category of sales order & MRP type from the material master.

<b>Schedule Line Category =</b>	<b>Item category</b>	<b>+ MRP Type</b> <i>(Material Master)</i>
---------------------------------	----------------------	---

**Picture : Schedule Line Categories Determination**

<b>IMG Menu</b>	<i>Sales and Distribution → Sales → <u>Sales Documents</u> → Schedule Lines → Assign Schedule Line Categories</i>
<b>Transaction Code</b>	SPRO

**Picture : Path to configure Schedule Line Categories**

	ItCa	Typ	SchLC	I
<input type="checkbox"/>	FREE		YP	
<input type="checkbox"/>	YTAN		YP	
<input type="checkbox"/>	YTAN	ND	YN	
<input type="checkbox"/>	YTAN	P1	YP	
<input type="checkbox"/>	YTAN	P2	YP	
<input type="checkbox"/>	YTAN	VB	YV	

**Determination**

**Picture : Configuration of Schedule Line Categories Determination**

Note : MRY Types are SAP Standard. Below is the meaning of MRP type used

ND	No planning
P1	Forecast Consumption, Auto Firming, New Ords after PTF
P2	Forecast Consumption, Auto Firming, No New Ords in PTF
VB	Reorder-Point Planning

**Picture : SAP Standard MRP Type**

## 6. Deliveries in SAP

If our business is buying & selling then there are business documents like purchase order or sales order to specify what we purchasing or selling, at what price, on which date etc.

Since there are several activities (like picking/put away, packing etc.) between specifying buying or selling details (by Sales Organizations/Purchase Organizations) & actual delivery/supply of goods so there should be a connection between the purchaser order/sales order & actual receipt/delivery of goods. Deliveries fulfils this connection.

Deliveries in SAP specified by its direction . Deliveries related to inbound direction are inbound deliveries. Similarly deliveries related to outbound direction are inbound deliveries

Below are the main type of deliveries used in SAP and their respective preceding documents

Sales Order --> Outbound Delivery

Purchase Order --> Inbound Delivery

Stock Transport Order --> Replenishment Delivery

Subcontracting purchase Order --> Subcontracting Delivery

Let's first have a common configuration to both inbound & outbound deliveries.

### 6.1 Delivery Type

We will define our delivery types which represent the different business transactions in shipping.

Delivery type configuration determines the below properties

- **Document category [J]** = Delivery-A classification for the different types of documents in sales and distribution Example : Quotations, Sales orders, Deliveries and Invoices.
- **Item number increment:** The increment by which item numbers is a sales, delivery or billing document to increase.
- **Order required=** Indicates whether a delivery that has no reference to an existing sales order is allowed.
- **Default order type [DL]** = Default order type for deliveries without reference to order

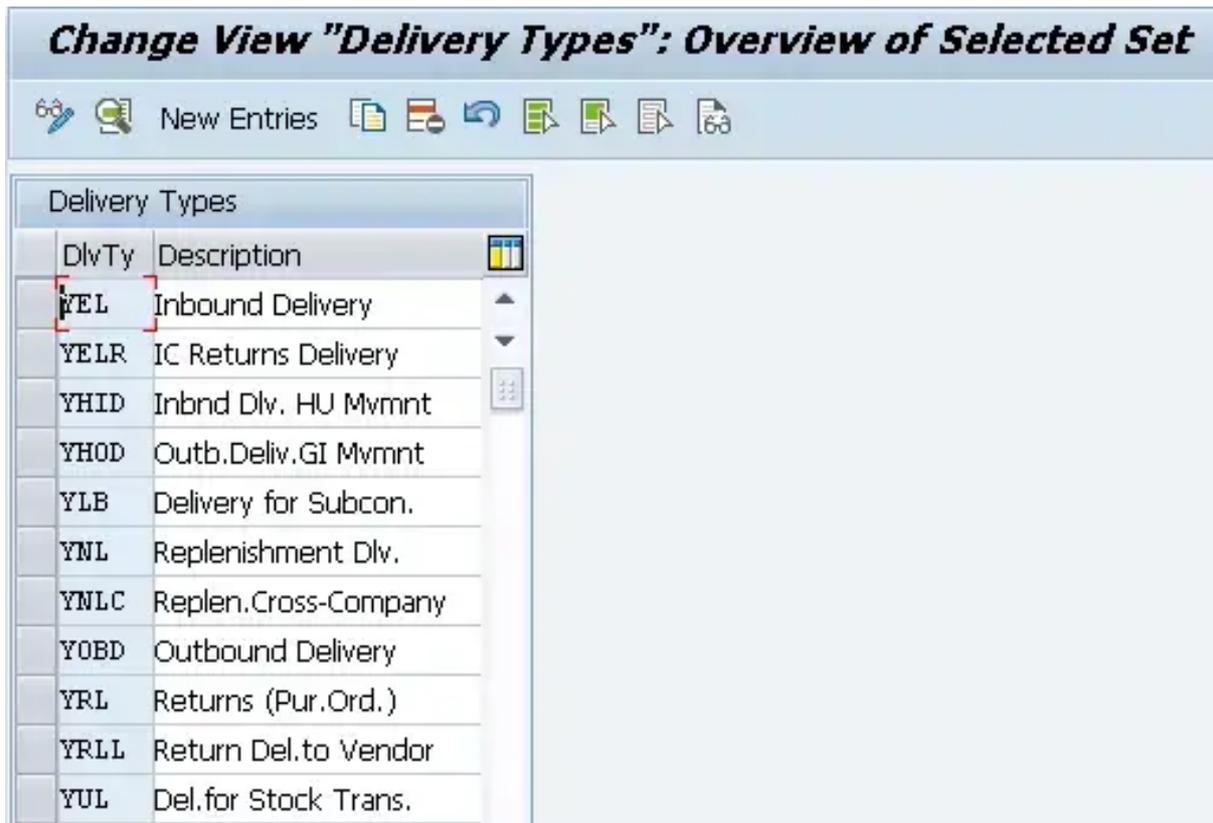
--> In the order type customizing , we define the delivery process and subsequent billing process that follows.

--> But a delivery without any reference to real sales order, we have to define a default order type (DL here) in the

Customizing for the delivery type. The Customizing for this default order type (DL) contains the default billing type for billing this delivery.

- **Item requirement [202]** = Requirement for item that does not refer to a sales order. It identifies a requirements routine for a delivery item that does not refer to a sales document.
- **Storage Location Rule:** It specifies how the system determines the picking location when delivery is created without entering a storage location for the items.
- **Route determination :** It specifies whether, during delivery processing, the system uses the route that is determined during sales order or whether it determines a new route.
- **Delivery split Warehouse Number:** It enables delivery split according to warehouse number
- **Automatic packing:** Automatic packing proposal is retrieved when a delivery is created. All items will be packed.
- **General packing material item:** This is used to allow generation of delivery items for packaging materials.
- **Partner determination procedure :** A grouping of partner functions. The procedure specifies which partner functions are allowed for a particular business transaction and which of those partner functions are mandatory.
- **Distribution mode :** To specify the time at which delivery is distributed to the decentralized WMS.

We will configure the below delivery type for our car business



Picture : Delivery Type for our Car business

### 6.1.1 Outbound Delivery

Outbound deliveries are created against sales order or against stock transport order from the sending plant. We will configure all the main types of outbound deliveries one by one.

#### 6.1.1.1 YOBD – Outbound Delivery Customer Sales

This delivery will be created based on sales order. We will configure our customized outbound delivery for customer sales

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Deliveries → Define Delivery Types</i>
<b>Transaction Code</b>	OVLR

Picture : Path to Configure Outbound Delivery Customer Sales

Delivery Type	Y0BD	Outbound Delivery CS
Document Cat.	J	Delivery
<b>Number Systems</b>		
Number Range for Internal Number Assignment	17	Item Number Increment 10
Number Range for External Number Assignment	18	
<b>Order Reference</b>		
Order Required	X Sales order required	
Default Ord.Ty.	DL	Order Type Sched ItemRequirement 202 Order w.indep.item
<b>Document Content</b>		
Storage Location Rule	MALA	OutputDet.Proc. V10000
Text Determination Procedure	02	Output Type LD00
Doc.stats.group		Application V2
Route Determination	B New route determination with check	
<input checked="" type="checkbox"/> Delivery Split by Warehouse Number	Partner Determination Procedure	LF
<input type="checkbox"/> Delivery Split Partners	Rescheduling	<input type="checkbox"/>
<input type="checkbox"/> Autom. packing	Distribtn Mode	Distribution Control By ...
<input type="checkbox"/> Generation of Delivery Items for HU Packaging Materials		

**Picture : Configuration of Outbound Delivery Customer Sales screen 1**

<b>Transaction Flow</b>		
Screen seq.grp	LF	Standard Text
Display Range	UALL All items	
<b>Supply Assignment (ARun)</b>		
<input type="checkbox"/> Restore Assignments		
<b>Segmentation</b>		
<input type="checkbox"/> Ignore Segmentation Rule		

**Picture : Configuration of Outbound Delivery Customer Sales screen 2**

### 6.1.1.2 YUL – Delivery for Stock Transport Order

**Change View "Delivery Types": Details of Selected Set**

New Entries     

Delivery Type     
 Document Cat.  Delivery

**Number Systems**

Number Range for Internal Number Assignment  Item Number Increment    
 Number Range for External Number Assignment

**Order Reference**

Order Required    
 Default Ord.Ty.  Order Type Sched

**Document Content**

Storage Location Rule  OutputDet.Proc.    
 Text Determination Procedure  Output Type    
 Doc.stats.group  Application    
 Route Determination    
 Delivery Split by Warehouse Number Partner Determination Procedure    
 Delivery Split Partners Rescheduling    
 Autom. packing Distrbtn Mode    
 Generation of Delivery Items for HU Packaging Materials

**Transaction Flow**

Screen seq.grp  Standard Text    
 Display Range

**Picture : Configuration of YUL – Delivery for Stock Transport Order**

**6.1.1.3 YNL – Replenishment Delivery**

**Change View "Delivery Types": Details of Selected Set**

New Entries

Delivery Type     
 Document Cat.  Delivery

**Number Systems**

Number Range for Internal Number Assignment  Item Number Increment    
 Number Range for External Number Assignment

**Order Reference**

Order Required    
 Default Ord.Ty.  Order Type Sched   Order w.indep.item

**Document Content**

Storage Location Rule  OutputDet.Proc.    
 Text Determination Procedure  Output Type    
 Doc.stats.group  Application    
 Route Determination    
 Delivery Split by Warehouse Number Partner Determination Procedure    
 Delivery Split Partners Rescheduling    
 Autom. packing Distribtn Mode    
 Generation of Delivery Items for HU Packaging Materials

**Transaction Flow**

Screen seq.grp  Standard Text    
 Display Range

Picture : YNL – Replenishment Delivery Type Config

6.1.1.4 YNLC – Replenishment Cross-Company

**Change View "Delivery Types": Details of Selected Set**

New Entries     

Delivery Type  Replen.Cross-Company

Document Cat.  Delivery

**Number Systems**

Number Range for Internal Number Assignment  Item Number Increment

Number Range for External Number Assignment

**Order Reference**

Order Required

Default Ord.Ty.  Order Type Sched   Order w.indep.item

**Document Content**

Storage Location Rule  OutputDet.Proc.

Text Determination Procedure  Output Type

Doc.stats.group  Application

Route Determination

Delivery Split by Warehouse Number Partner Determination Procedure

Delivery Split Partners Rescheduling

Autom. packing Distribtn Mode

Generation of Delivery Items for HU Packaging Materials

**Transaction Flow**

Screen seq.grp  Standard Text

Display Range

Picture : YNLC – Replenishment Cross-Company Configuration

6.1.1.5 YRL – Returns (Purchase Order)

**Change View "Delivery Types": Details of Selected Set**

New Entries

Delivery Type  Returns (Pur.Ord.)

Document Cat.  Delivery

**Number Systems**

Number Range for Internal Number Assignment  Item Number Increment

Number Range for External Number Assignment

**Order Reference**

Order Required

Default Ord.Ty.  Order Type Sched   Order w.indep.item

**Document Content**

Storage Location Rule  OutputDet.Proc.

Text Determination Procedure  Output Type

Doc.stats.group  Application

Route Determination

Delivery Split by Warehouse Number Partner Determination Procedure

Delivery Split Partners Rescheduling

Autom. packing Distrbtn Mode

Generation of Delivery Items for HU Packaging Materials

**Transaction Flow**

Screen seq.grp  Standard Text

Display Range

Picture : Configuration of YRL – Returns (Purchase Order)

6.1.1.6 YRLL – Return Del.to Vendor

**Change View "Delivery Types": Details of Selected Set**

New Entries 

Delivery Type  Return Del.to Vendor

Document Cat.  Delivery

Number Systems

Number Range for Internal Number Assignment  Item Number Increment

Number Range for External Number Assignment

Order Reference

Order Required

Default Ord.Ty.  Order Type Sched  ItemRequirement

Document Content

Storage Location Rule  OutputDet.Proc.

Text Determination Procedure  Output Type

Doc.stats.group  Application

Route Determination

Delivery Split by Warehouse Number Partner Determination Procedure

Delivery Split Partners Rescheduling

Autom. packing Distribtn Mode

Generation of Delivery Items for HU Packaging Materials

Transaction Flow

Screen seq.grp  Standard Text

Display Range

Picture : Configuration of YRLL – Return Del.to Vendor

6.1.1.7 YHOD – Outb.Deliv.GI Movement

## Change View "Delivery Types": Details of Selected Set

 New Entries     

Delivery Type

Document Cat.

### Number Systems

Number Range for Internal Number Assignment  Item Number Increment

Number Range for External Number Assignment

### Order Reference

Order Required  ▼

Default Ord.Ty.   ItemRequirement  

### Document Content

Storage Location Rule  OutputDet.Proc.

Text Determination Procedure  Output Type

Doc.stats.group  Application

Route Determination  ▼

Delivery Split by Warehouse Number Partner Determination Procedure

Delivery Split Partners Rescheduling

Autom. packing Distribtn Mode  ▼

Generation of Delivery Items for HU Packaging Materials

### Transaction Flow

Screen seq.grp  Standard Text

Display Range  ▼

Picture : Configuration of YHOD – Outb.Deliv.GI Movement

#### 6.1.1.8 YELR-Inter-Company Returns Delivery

<b>Change View "Delivery Types": Details of Selected Set</b>			
New Entries			
Delivery Type	YELR	IC Returns Delivery	
Document Cat.	7	Delivery/Shipping Notification	
<b>Number Systems</b>			
Number Range for Internal Number Assignment	21	Item Number Increment	10
Number Range for External Number Assignment	22		
<b>Order Reference</b>			
Order Required	B Purchase order required		
Default Ord.Ty.	DLRE	Ord.Type Returns	ItemRequirement 282
<b>Document Content</b>			
Storage Location Rule	MSRE	OutputDet.Proc.	<input type="text"/>
Text Determination Procedure	<input type="checkbox"/>	Output Type	<input type="text"/>
Doc.stats.group	<input type="checkbox"/>	Application	<input type="checkbox"/>
Route Determination	No new route determination		
<input type="checkbox"/> Delivery Split by Warehouse Number	Partner Determination Procedure		EL
<input type="checkbox"/> Delivery Split Partners	Rescheduling		A
<input type="checkbox"/> Autom. packing	Distrbtn Mode		Distribution Control By ...
<input type="checkbox"/> Generation of Delivery Items for HU Packaging Materials			
<b>Transaction Flow</b>			
Screen seq.grp	LF	Standard Text	<input type="text"/>
Display Range	UALL All items		

**Picture : Configuration of YELR-Inter-Company Returns Delivery**

### 6.1.2 Inbound Delivery

As name specifies, inbound deliveries are used for the goods direction inbound to our business.

Inbound deliveries are created based on the purchase orders and then further activities, such as packing, placing in storage, creating the warehouse order, and posting the goods receipt are done on the basis of inbound delivery. Delivery type for the inbound delivery is determined from the confirmation control. Please click [HERE](#) to see the details.

In addition to this there must be a default order type defined for the delivery type as we need customizing for order type. But for the deliveries which does not have any link to real sales order a default order type "DL" is defined.

This default order type "DL" uses the copy control "Order Type to Delivery Type" (i.e. from "DL" to "YEL") to transfer information from the purchase order to the delivery using the data transfer routine

#### 6.1.2.1 YEL-Inbound Delivery for our car business

We will configure our customized inbound delivery type YEL for our car business.

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Deliveries → Define Delivery Types</i>
<b>Transaction Code</b>	OVLR

**Picture : Path to configure Inbound Delivery YEL**

**Change View "Delivery Types": Details**

New Entries     

Delivery Type

Document Cat.

**Number Systems**

Number Range for Internal Number Assignment  Item Number Increment

Number Range for External Number Assignment

**Order Reference**

Order Required

Default Ord.Ty.  Order Type Sched   No ord.w.indep.ite

**Document Content**

Storage Location Rule  OutputDet.Proc.

Text Determination Procedure  Output Type

Doc.stats.group  Application

Route Determination

Delivery Split by Warehouse Number Partner Determination Procedure

Delivery Split Partners Rescheduling

Autom. packing Distribtn Mode

Generation of Delivery Items for HU Packaging Materials

Picture : configuration of "YEL" Inbound Delivery type

6.1.2.2 YHID-Inbound Delivery HU Movement

<b>Change View "Delivery Types": Details of Selected Set</b>			
New Entries			
Delivery Type	YHID	Inbnd Dlv. HU Mvmnt	
Document Cat.	7	Delivery/Shipping Notification	
<b>Number Systems</b>			
Number Range for Internal Number Assignment	41	Item Number Increment	10
Number Range for External Number Assignment	42		
<b>Order Reference</b>			
Order Required	O Goods movement through inb.deliv. / post.chge /outb. deliv.		
Default Ord.Ty.	DHU	SlsDocTypeDelyHU	ItemRequirement <input type="checkbox"/>
<b>Document Content</b>			
Storage Location Rule	MALA	OutputDet.Proc.	E10001
Text Determination Procedure	02	Output Type	CHKL
Doc.stats.group	<input type="checkbox"/>	Application	E1
Route Determination	No new route determination		
<input type="checkbox"/> Delivery Split by Warehouse Number	Partner Determination Procedure		ID
<input type="checkbox"/> Delivery Split Partners	Rescheduling		<input type="checkbox"/>
<input type="checkbox"/> Autom. packing	Distribtn Mode		Distribution Control By ...
<input type="checkbox"/> Generation of Delivery Items for HU Packaging Materials			
<b>Transaction Flow</b>			
Screen seq.grp	<input type="checkbox"/>	Standard Text	<input type="checkbox"/>
Display Range	UALL All items		

Picture : Configuration of YHID-Inbound Delivery HU Movement

### 6.1.3 YLB – Subcon Delivery

**Change View "Delivery Types": Details of Selected Set**

New Entries

Delivery Type  Delivery for Subcon.

Document Cat.  Delivery

**Number Systems**

Number Range for Internal Number Assignment  Item Number Increment

Number Range for External Number Assignment

**Order Reference**

Order Required

Default Ord.Ty.  Order Type Sched  ItemRequirement

**Document Content**

Storage Location Rule  OutputDet.Proc.

Text Determination Procedure  Output Type

Doc.stats.group  Application

Route Determination

Delivery Split by Warehouse Number Partner Determination Procedure

Delivery Split Partners Rescheduling

Autom. packing Distribtn Mode

Generation of Delivery Items for HU Packaging Materials

**Transaction Flow**

Screen seq.grp  Standard Text

Display Range

Picture : Configuration of YLB – Subcon Delivery

## 7. Defining Item Categories for Deliveries

Item categories are defined to have more control over individual materials in the deliveries. The item category is copied from an order item. A standard item in a standard order then becomes a standard item in the delivery. If a delivery is entered without reference to an order, the system proposes the item category depending on the delivery type and the item category group of the material.

### Some Rules of Delivery Item Categories

--> When a sales order item is copied to a delivery, item category of the order item is copied to the delivery item. If order item or the schedule line assigned to order item is relevant for delivery a corresponding item category must be defined for the delivery.

--> Delivery item category key must be the same key as order item category. So we must define all delivery item categories as sales item categories in Sales and Distribution even for inbound delivery item category which is never found in sales documents. This is required for the system to create a copying relationship between the order and delivery document at the item level. For example DL/ELN to EL/ELN.

--> For all delivery item categories other than SD document category 7, a schedule line categories consisting of movement type must be determined in sales & distribution.

--> Delivery item category with SD document category 7 can be specified with movement type directly in delivery item category.

Delivery Item Category configuration determines the below properties

- **Document category** : A classification for the different types of documents in the sales and distribution system
- **Material number 0 allowed**: It controls whether it makes sense to enter an item with this item category without specifying a material. It allows to create a delivery document for a line item with 0 quantity, Ex-Text Item.
- **Item category statistics group**: It specifies a statistics group for this item category and helps determine which data the system updates in the Logistics Information System.
- **Stock determination rule**: Stock determination rule and stock determination group are combined into one key for stock determination strategy. This is used in the repetitive manufacturing process.
- **Check quantity** : It specifies when we create an item that has a 0 quantity, how system should give message. It is useful for the items that are creating without order.
- **Check minimum quantity** : It specifies whether system has to check minimum delivery quantity as per customer material info/Material Master record. System gives warning or error message.
- **Check over delivery** : It specifies how the system reacts whether warning or error message during delivery processing when original order quantity exceeds delivering order quantity as per info record.
- **Availability check off** : It is the control to switch on/off availability check for delivery items.
- **Rounding** : This indicator specifies rounding rules for whole number unit of measure. It is useful for BOM items.
- **Relevant for picking or put away**: It indicates whether item of this type are relevant for picking or put away. In the outbound delivery process, only

delivery items that are relevant for picking are transferred to the warehouse management. Service items and text items are not transferred to the warehouse.

- **Storage location required:** This indicator makes storage location as mandatory in the delivery document.
- **Determine storage location:** It indicates whether system has to determine storage location automatically.
- **Do not check storage location:** It indicates whether system should run a check for the storage location that was determined.
- **No batch check:** It specifies system checks the batch number that entered in the delivery document.
- **Packing control:** It indicates whether delivery items with this item category:
  - May be
  - Cannot be
  - Must be packed
- **Pack accumulated batch items:** It specifies if for a batch material only the main item with accumulated batch quantity is to be packed in the delivery, or if only items in which the batch is recognized can be packed. Example -if total quantity is 20000 but it is manufactured in 20 batches, then all those 20 batches appear to be packed i.e. 20 line items of the same material to be packed. Through this indicator we can pack only 1 line item that is the sum of all the 20 batches, so that packing can be carried out more efficiently.
- **Automatic batch determination:** This indicator enables to determine batch automatically in the delivery documents.

**Below Delivery Item categories are created for our business**

## 7.1 Item categories for Outbound Deliveries

Below item categories are configured for the outbound deliveries

<b>IMG Menu</b>	<i>Logistic Execution → Shipping → Deliveries → Define Item Categories for Deliveries</i>
<b>Transaction Code</b>	OVLP

### **Picture : Path to configure Item categories for Outbound Deliveries**

We have customized a specific standard item category for our car business i.e. "YTAN"

Let's configure standard item category "YTAN" first

#### 7.1.1 YTAN -Standard Item

Item Category	YTAN	Standard Item
Document Category	Delivery	
<b>Material/Statistics</b>		
<input checked="" type="checkbox"/> Material Quantity 0		ItemCat. Stat. Group <input type="checkbox"/>
Stock Determination Rule	<input type="checkbox"/>	
<b>Quantity</b>		
Quantity 0 <input type="checkbox"/>	<input checked="" type="checkbox"/> Display warning message	Do Not Check Availability <input type="checkbox"/>
Minimum Quantity <input type="checkbox"/>	<input checked="" type="checkbox"/> Display warning message	Rounding <input type="checkbox"/>
Overdelivery <input type="checkbox"/>		
<b>Warehouse Control and Packing</b>		
<input checked="" type="checkbox"/> Relevant for Picking		Packing Control <input type="checkbox"/>
<input checked="" type="checkbox"/> Storage Location Required		<input type="checkbox"/> Pack acc. batch itms
<input checked="" type="checkbox"/> Determine Storage Location		
<input type="checkbox"/> Do Not Check Storage Location		
<input type="checkbox"/> Do Not Check Batch		<input type="checkbox"/> Automatic Batch Determination
<b>Bill of Material/Configuration</b>		
Structure scope <input type="checkbox"/>		<input type="checkbox"/> Create Delivery Group
BOM Application <input type="checkbox"/>		

Picture : Configuration of "YTAN" item category for our car business

### 7.1.2 YNLC- InterCo Stock Tr.Itm

Item Category: **YNLC** InterCo Stock Tr.Itm  
 \* Document Category: **J** Delivery

**Material/Statistics**

Material Quantity 0 ItemCat. Stat. Group: **1**  
 Stock Determination Rule:

**Quantity**

Quantity 0: **A** [Display warning message] Do Not Check Availability:   
 Minimum Quantity:  Rounding:   
 Overdelivery:

**Warehouse Control and Packing**

Relevant for Picking Packing Control:   
 Storage Location Required  Pack acc. batch itms  
 Determine Storage Location  
 Do Not Check Storage Location  
 Do Not Check Batch  Automatic Batch Determination

**Picture : Configuration of “YNLC” item category for our car business**

### 7.1.3 YNLN- Standard Stock Transport Item

Item Category: **YNLN** StandStockTransItem  
 \* Document Category: **J** [Delivery]

**Material/Statistics**

Material Quantity 0 ItemCat. Stat. Group: **1**  
 Stock Determination Rule:

**Quantity**

Quantity 0: **A** Display warning message Do Not Check Availability:   
 Minimum Quantity:  Rounding:   
 Overdelivery:

**Warehouse Control and Packing**

Relevant for Picking Packing Control:   
 Storage Location Required  Pack acc. batch itms  
 Determine Storage Location  
 Do Not Check Storage Location  
 Do Not Check Batch  Automatic Batch Determination

**Picture : Configuration of “YNLN” item category for our car business**

## 7.1.4 YULN- Standard Stock Transport Item

Item Category:  StandStockTransItem

\* Document Category:  Delivery

---

**Material/Statistics**

Material Quantity 0 ItemCat. Stat. Group:

Stock Determination Rule:

---

**Quantity**

Quantity 0:  Display warning message Do Not Check Availability:

Minimum Quantity:  Rounding:

Overdelivery:

---

**Warehouse Control and Packing**

Relevant for Picking Packing Control:

Storage Location Required  Pack acc. batch itms

Determine Storage Location

Do Not Check Storage Location

Do Not Check Batch  Automatic Batch Determination

**Picture : Configuration of “YULN” item category for our car business**

## 7.2 Item Categories for Inbound Deliveries

As stated before, for our car business we are defining item category for inbound delivery as “YELN”

### 7.2.1 YELN – Item Category for Inbound Delivery

Let,s configure “YELN” for inbound deliveries for our car business.

**Change View "Delivery Item Categories": Details**

New Entries     

Item Category  Inbound Delivery PPL

Document Category  Delivery/Shipping Notification

---

**Material/Statistics**

Material Quantity 0 ItemCat. Stat. Group

Stock Determination Rule

---

**Quantity**

Quantity 0  Do Not Check Availability

Minimum Quantity  Rounding

Overdelivery

---

**Warehouse Control and Packing**

Relevant for Picking Packing Control

Storage Location Required  Pack acc. batch itms

Determine Storage Location Movement Type

Do Not Check Storage Location  Automatic Batch Creation

Do Not Check Batch  Automatic Batch Determination

---

**Transaction Flow**

Text Determination Procedure  Standard Text

**Picture : Configuration of Item Categories "YELN" for Inbound Deliveries**

### 7.2.2 YSPR – Item Category for Inbound Delivery for spares

We have configured a special line item category for spares materials which will follow a special business process compare to the standard materials. below is the configuration of YSPR line item category

Item Category YSPR IBD -Spare Parts  
Document Category Delivery/Shipping Notification

**Material/Statistics**  
 Material Quantity 0 ItemCat. Stat. Group 1  
Stock Determination Rule

**Quantity**  
Quantity 0  Do Not Check Availability   
Minimum Quantity  Rounding   
Overdelivery

**Warehouse Control and Packing**  
 Relevant for Picking Packing Control   
 Storage Location Required  Pack acc. batch itms  
 Determine Storage Location Movement Type 101  
 Do Not Check Storage Location  Automatic Batch Creation  
 Do Not Check Batch  Automatic Batch Determination

**Transaction Flow**  
Text Determination Procedure  Standard Text

**Text Type for Text Transfer to Material Document**  
Text ID  
Language

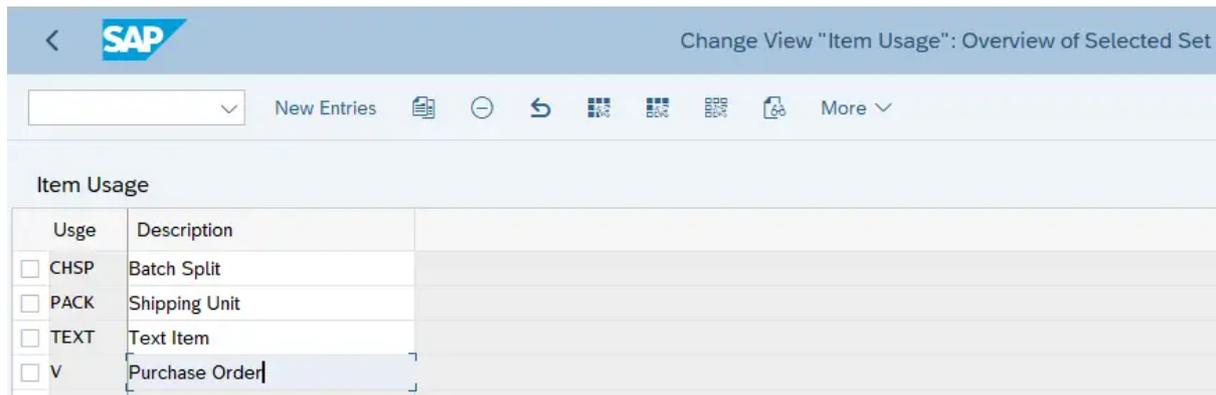
Picture: Configuration of Item Category for Inbound Delivery for spares -YSPR

## 8. Define Item Category Usage

In this configuration, we specify the item category usages that control the usage of the item

<b>IMG Menu</b>	Sales → Sales Documents → Sales Document Item → Define Item Category Usage
<b>Transaction Code</b>	SPRO

Picture : Path for Item Category Usage configuration



**Picture : Item Category Usage configuration**

## 9. Determination of Item Categories in Deliveries

There are two ways of item category determination in deliveries

- Process where item categories are copied from the higher level sales order item. For example- Sales order to outbound delivery.
- For order-independent items in the delivery like packing material, or inbound deliveries. no item category can be copied from a sales order. In this case in addition to the delivery type & item category group from the material master, a special functionality called "usage" is also taken into account.
- Some example of usage -PACK for packing items, CHSP for batch split & V for for inbound deliveries for purchase orders and for deliveries in STOs.

Please note that in material master there are two fields.

One is "General Item Category Group" which is at MARA level. This field is used for inbound deliveries

The other field "Item Category Group" is used with sales organization & distribution channel in deliveries.

We will configure item category determination for normal customer outbound delivery, intra-company STOs outbound deliveries, intercompany STOs outbound deliveries & inbound deliveries.

below is the path to determine item categories in deliveries.

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Deliveries → Define Item Category Determination in Deliveries</i>
<b>Transaction Code</b>	SM30 (CUSTOMIZING OBJECT V_T184L)

Picture : Path to Configure Determination of Item Categories in Deliveries

## 9.1 Determination of Item Categories in Outbound Deliveries

For our car business, we have configure determination of Item Categories in Outbound Deliveries as below

**Change View "Delivery item category determination": Overview of Select**

Delivery item category determination															
DlvT	ItCG	Usge	ItmC	ItmC	MitC										
YELR		V		ELLR											
YELR	NORM	V		ELLR											
YHID				HIDN											
YHID	NORM			HIDN											
YHOD				HODN											
YHOD	NORM	V		HODN											
YLB	NORM			LBN											
YNL	NORM			YULN											
YNL	NORM	V		YNLN											
YNLC	NORM			YULN											
YNLC	NORM	V		YNLC											
YOBD	NORM			YTAN											
YRL	NORM	V		RLN											
YRLL	NORM			RLLN											
YRLL	NORM	V		RLLN											
YUL	NORM			YULN											

Picture : Configuration of Determination of Item Categories in Deliveries

## 9.2 Determination of Item Categories in Inbound Deliveries

We will configure the determination of Item Categories in Inbound Deliveries for all the business scenario

### 9.2.1 Item Category Determination in Standard Inbound Delivery

Below is the configuration of Item Category Determination in Standard Inbound Delivery

Delivery item category determination					
	DlvT	ItCG	Usge	ItmC	ItmC
	YEL				YELN
	YEL			YELN	YELN
	YEL		V		YELN
	YEL		V	YELN	YELN
	YEL	NORM			YELN
	YEL	NORM		YELN	YELN
	YEL	NORM	V		YELN

Picture : Determination of Standard Item

Category "YELN"

### 9.2.2 Item Category Determination in Special Process Inbound Delivery

Spare parts materials will follow a different process in inbound so we have configured a specific line item category YSPR for spare parts. Below is the configuration of Item Category Determination in Special Process Inbound Delivery for spares

<b>Change View "Delivery item category determination"</b>											
New Entries                          BC Set: Change Field Values											
Delivery item category determination											
	DlvT	ItCG	Usge	ItmC	ItmC	MItC	MItC	MItC	MItC	MItC	MItC
	YEL	YSPR	V		YSPR						

Picture: Item Category YSPR Determination in Special Process Inbound Delivery

--> In the above item category determination different is the only Item category which comes from the material master.

--> To determine different line item category "YSPR" for the spare parts materials from the the standard line item category "YELN", we have to input different "item category" in the material master of spare parts materials. Please check the below link to see this in detail

[2 Minutes Guide to Create your First Material in S4 HANA-"Gen. item cat. grp" for Spare Parts Specific Business Purpose](#)

## 10. Billing

### 10.1 Important configuration in Billing Type

- **Transaction group** : A group that allows you to control certain features of transaction flows by sales, shipping and billing documents.
- **Billing category** : It is used to differentiate the billing documents.
- **Document type** : This field classifies accounting documents. As invoice generates FI document type RV (Billing data transfer)
- **Negative posting** : Negative posting for same period.
- **Branch/Head office**: The indicator controls, which partner functions of the billing document, can be forwarded to financial accounting.
- **Credit memo with value date** : If the field is set, the reference billing document is not settled and the payment deadline date for the base billing document comes after the billing date for the credit memo.
- **Invoice list** : Classification that distinguishes between invoice list types that require different processing by the system.
- **Posting block**: it blocks automatic transfer of the data from invoice to FI document. Invoice has to be released manually then.
- **Statistics**: the value of the billing document is going to be updated in LIS. It indicates whether the system stores information from billing documents for the purposes of statistical analysis.
- **Rebate settlement** : If indicates whether the billing type is used exclusively during rebate processing.
- **Relevant for Rebate**: This indicator is one of the pre – requisite to process rebates.
- **Cancellation billing type** : It specifies the default cancellation for this billing type.
- **Copying requirements** : The routine checks that certain requirements are met when one document is copied into another.
- **Reference number** : The reference number is a piece of additional information forwarded from SD and FI.
- **Allocation number** : item that is forwarded from SD to FI. If you do not make an entry and the field is not filled in the order, the field remains empty.

- **Account determination procedure:** It specifies the condition types that the system uses for a particular type of document (Ex: Invoice) to determine the G/L Accounts to which amounts should be posted.
- **Document pricing procedure :** The key that specifies the pricing procedure for this type of sales document. The pricing procedure determines how the system carries out pricing for a particular sales document.
- **Account determination reconciliation account:** If a G/L Account is determined here, then the reconciliation account stored in the customer master record is ignored.
- **Account determination cash settlement :** It determines the condition types that the system uses to determine G/L Account for cash settlement. If this field is filled, then the billing document is not posted on the debit side. In this case the G/L Account determined is posted.
- **Account determination pay cards :** It specifies the condition types that the system uses to determine general ledger accounts for document types used in payment card transactions.

## 10.2 Configuring our Billing Type YF2

We will configure our own billing type “YF2” as shown in the below screenshots.

Billing Type:	YF2	Invoice	Created by:	SAP
<b>Number systems</b>				
No. Range Int. Asst:	19		Item No. Increment:	
<b>General control</b>				
SD Document Category:	M	Invoice	<input type="checkbox"/>	Posting Block
Transaction Group:	7	Billing Documents	<input checked="" type="checkbox"/>	Statistics
Billing category:	I			
Document type:				
Negative posting:	<input type="checkbox"/>	No negative posting		
Branch/Head office:		Customer=Payer/Branch=sold-to party		
Credit memo w/ValDat:	<input type="checkbox"/>	No		
Invoice List Type:	LR	Invoice List		

Picture : YF2 Billing Type Configuration ..Part

Cancellation	
Cancell.billing type:	S1 Invoice Cancellation
Copying Requirements:	29 Cancel Header Clear.
Reference Number:	
Assignment Number:	
Account assignment/pricing	
Act Det.G/L Act:	KOFI00 Account determination
Doc. Pricing Proc.:	
Acc. det. rec. acc.:	
Acc. det. cash. set.:	
Acc. det. pay. cards:	A00001 Standard

**Picture : YF2 Billing Type Configuration ..Part 2**

Note

Once we have configured our own Account determination procedure. We will assign this to the billing type YF2

Please check below post to have a step by step overview of the Account determination procedure

## 11 Copy Control

We will maintain copy control for our Our flow YOR → YOBD → YF2

### 11.1 Maintaining Copy Control for Sales order to Delivery

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Copy Control → Specify Copy Control for Deliveries</i>
<b>Transaction Code</b>	<b>VTLA</b>

### 11.1.1 Header Data Copy

We will first maintain copy control to copy header data

#### 11.1.1.1 Copy Control for YOBD → YOR

Please maintain copy control as per the screenshot shown below

Target delivery type:	<input type="text" value="YOBD"/>	Outbound Delivery CS
From SalesDoc Type:	<input type="text" value="YOR"/>	PPIN Std.Sales Order
<b>Conditions</b>		
Order requirements:	<input type="text" value="001"/>	Header
Combination requirmt:	<input type="text" value="051"/>	Combination
<b>Data Transfer</b>		
Header Data:	<input type="text" value="001"/>	[ Header ]
Header Data Ext. Sys:	<input type="text"/>	
Handling Units:	<input type="text"/>	

### 11.1.2 Item Copy

Now we will maintain copy control to copy Items

### 11.1.2.1 Copy Control for TAN Item Category (YOR → YOBD)

Please maintain copy control as per the screenshot shown below

The screenshot displays the SAP Copy Control configuration for a TAN Item Category (YOR → YOBD). The dialog is structured as follows:

- Dialog Structure:** A tree view on the left shows 'Header' and 'Item' (highlighted).
- Source:**
  - Tgt Del. Type: YOBD
  - Outbound Delivery CS
  - Sales doc. type: YOR
  - PPIN Std.Sales Order
  - Item Category: TAN
  - Standard Item
- Conditions:**
  - Order requirements: 101 Item
- Data Transfer:**
  - Item Data: 101 Item
  - Item Ext. System: (empty)
  - Business data: 2 Business Data
- Control Data:**
  - Update document flow
  - Pos./Neg. Quantity: +

Since for our standard sales order “YOR” & outbound delivery “YOBD”, we have configured a specific item category “YTAN” instead of system standard “TAN” so we need to main copy control to resolve the copy control error shown HERE

### 11.1.2.2 Copy Control for YTAN Item Category (YOR → YOBD)

Please maintain copy control as per the screenshot shown below

**Change View "Item": Details**

New Entries       

Dialog Structure

- Header
  - Item

Tgt Del. Type      Y0BD      PPIN Cust Outbnd Dlv

Source

Sales doc. type      Y0R      PPIN Std Sales Oder

Item Category      YTAN      Standard Item

Conditions

Order requirements      101      Item

Data Transfer

Item Data      101      Item

Item Ext. System     

Business data      2      Business Data

Control Data

Update document flow      Pos./Neg. Quantity      +

## 11.2 Copying Control: Delivery Document to Billing Document

<b>IMG Menu</b>	<i>Sales and Distribution → Billing → Billing Documents → Maintain Copying Control for Billing Documents → Copying Control: Delivery Document to Billing Document</i>
<b>Transaction Code</b>	<b>VTFL</b>

### 11.2.1 Header Data Copy

Dialog Structure Header Item	Target	Source
	Target Bill. Type: YF2 Invoice	From Delivery Type: YOBD Outbound Delivery CS
	Copy	
	Copying Requirements: 003 Header/dlv.-related Determ. Export Data: <input type="checkbox"/> Assignment Number: <input type="checkbox"/> Reference Number: <input type="checkbox"/> <input checked="" type="checkbox"/> Copy Item Number	

## 11.2.2 Item Data Copy

Dialog Structure Header Item	Target	Source
	Target Bill. Type: YF2 Invoice	From Delivery Type: YOBD Outbound Delivery CS  Item Category: TAN Standard Item
	Copy	
	Copying Requirements: 004 liv-related item Data VBRK/VBRP: <input type="text"/> Billing Quantity: G Pos./Neg. Quantity: + Pricing Type: G PricingExchRate Type: <input type="checkbox"/> <input type="checkbox"/> Cumulate cost Price Source: E	

We have completed all the required sales documents.

## 11.3 Copy Control for Inbound Delivery

For inbound delivery we need to maintain copy control from default order type "DL" to our delivery type "YEL"

Target delivery type	<input type="text" value="YEL"/>	Inbound Delivery PPI
From SalesDoc Type	<input type="text" value="DL"/>	Order Type Sched.Ag.
<b>Conditions</b>		
Order requirements	<input type="checkbox"/>	
Combination requirmt	<input type="checkbox"/>	
<b>Data Transfer</b>		
Header Data	<input type="text" value="201"/>	Header Delivery
Header Data Ext. Sys	<input type="checkbox"/>	
Handling Units	<input type="checkbox"/>	
<b>Control Data</b>		
<input type="checkbox"/> Copy Item Number		

**Picture : Copy Control for Inbound Delivery**

<b>Dialog Structure</b> <ul style="list-style-type: none"> <li>▼ Header</li> <li>• Item</li> </ul>	Tgt Del. Type	<input type="text" value="YEL"/>	Inbound Delivery PPI
	<b>Source</b>		
	Sales doc. type	<input type="text" value="DL"/>	Order Type Sched.Ag.
	Item Category	<input type="text" value="YELM"/>	Inbound Delivery PPL
	<b>Conditions</b>		
	Order requirements	<input type="checkbox"/>	
	<b>Data Transfer</b>		
	Item Data	<input type="text" value="202"/>	Item Delivery
	Item Ext. System	<input type="checkbox"/>	
	Business data	<input type="checkbox"/>	
<b>Control Data</b>			
<input type="checkbox"/> Update document flow		Pos./Neg. Quantity	<input style="width: 20px;" type="text" value="+"/>

**Picture : Copy Control for Inbound Delivery item**

## 12. Final config of flow YOR →YOBD→YF2

Sine now we have configured our customized sales order type (YOR), outbound delivery (YOBD) & Billing (YF2). Let's assign them as required to complete the flow

### 12.1 Assignment of YOBD & YF2 to YOR

The screenshot shows the SAP 'Change View Maintain Sales Order Types: Details' interface. It is divided into two main sections: Shipping and Billing.

**Shipping Section:**

- Delivery type: YOB
- Delivery block:
- Shipping conditions:
- ShipCostInfoProfile:
- PPIN Cust Outbnd Dlv: PPIN Cust Outbnd Dlv
- Immediate delivery:
- Ship.Con.Ship-to-p.:

**Billing Section:**

- Dlv-rel.billing type: YF
- Order-rel.bill.type: YF
- Intercomp.bill.type: IV
- Billing block:
- Invoice PPIN: Invoice PPIN
- Intercompany Billing: Intercompany Billing
- CndType line items: EK
- Billing plan type:
- Paymt guarant. proc.: 01
- Paymt card plan type: 03
- Checking group:

Picture : Assignment of YOBD to YOR

## Sales Order in SAP S4 HANA SD

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## 1. Sales Organization Structure

Organization structure represents a certain entity within the organization with a certain function or role.

There are various organization structure elements in sales like – sales organizations, distribution channel, division etc. These organization structure plays a vital role in sales cycle.

Please check the below post to know the sales organization structure & their respective configuration in detail

[\*\*Configure SAP Sales & Distribution Organization Structure in 5 Minutes\*\*](#)

## 2. Sales scenarios in SAP S4 HANA SD

In this post we will create sales document for the below sales scenarios of SAP S4 HANA SD

- Standard Sales Order
- Inter-company Sales
- Third Party Sales
- Consignment Sales.

### 2.1 Standard Sales Order

Standard sales order is a part of standard sales cycles.

- Here we create a sales order for a stock material which has all standard pricing etc.
- This sales order is followed by a standard outbound delivery with standard
- Then it is supported by standard billing to invoice the goods and to post the respective amount to the GL accounts.

Our standard sales cycles is given below

**Sales Order (YOR) → Outbound Delivery (YOB) → Billing (YF2)**

### 2.1.1 Creation of Sales Order

As per our sales cycle let,s create the sales order of type YOR

Please check the full configuration and definition of different fields of sales order type YOR [HERE](#)

#### Start VA01

Input the below in the initial screen

- Order Type as “YOR”
- Sales Organization as “PA10”
- Distribution Channel as “PA”
- Division as “DC”

**Create Sales Documents**

Create with Reference  Sales

Order Type

**Organizational Data**

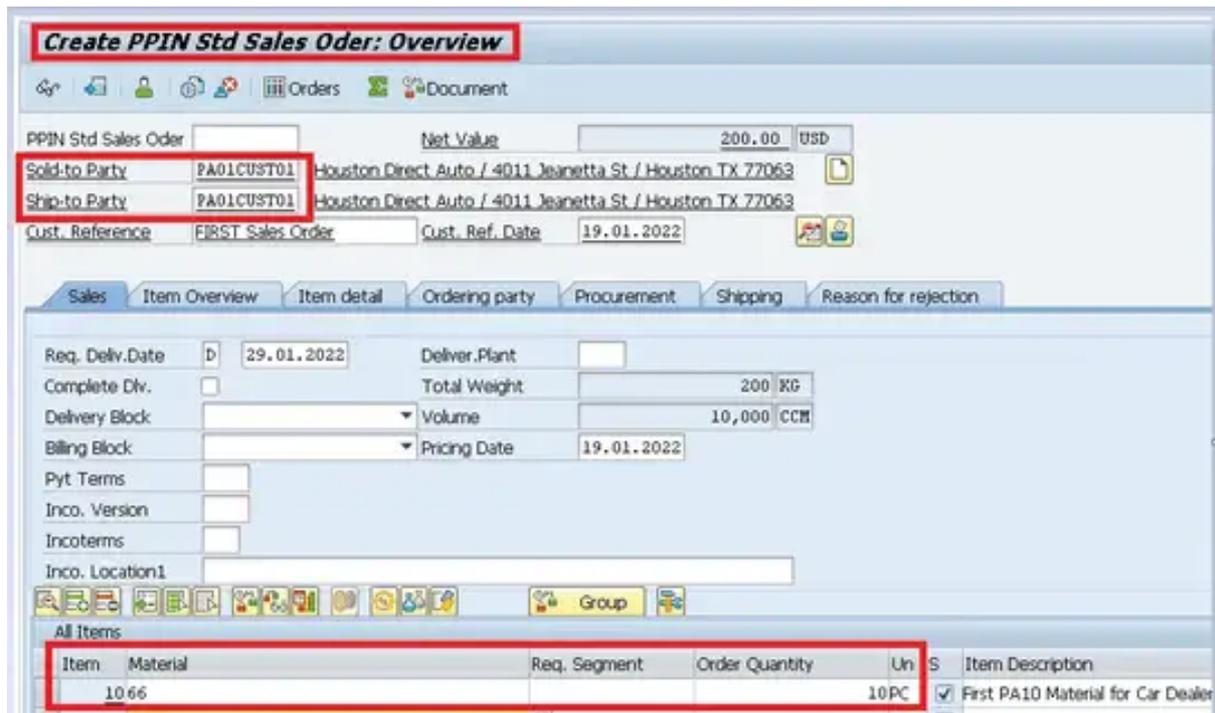
Sales Organization	<input type="text" value="PA10"/>
Distribution Channel	<input type="text" value="PA"/>
Division	<input type="text" value="DC"/>
Sales office	<input type="text"/>
Sales group	<input type="text"/>

Picture : Creation of Sales Order

Press Enter

In the next screen fill the data as given below

- Sold-to Party as "PA01CUST01" .Check the BP Customer Creation [HERE](#)
- Ship-to Party as "PA01CUST01"
- Cust. Reference as "FIRST Sales Order"
- Cust. Ref. Date as today,s date "19.01.2022"
- Material as "66". Check the material creation [HERE](#)
- Quantity as "10" PC



Picture : Creation of YOR Sales Order

Error 1

We are receiving the below message

**For the ISO code USD there is no unique SAP currency code for ALE**

Message no. B1888

### Diagnosis

There are several entries in TCURC for this ISO code, but none with the primary flag set.

### Procedure

In table TCURC set the primary flag for ISO codes used multiple times.

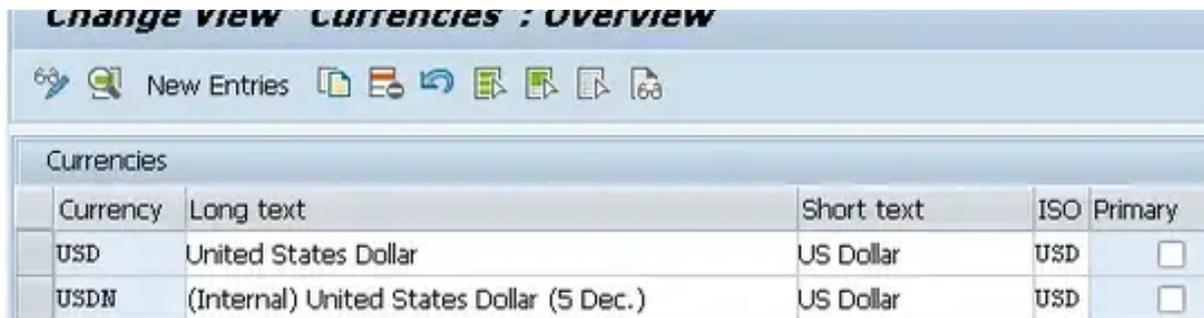
Picture : Warning in sales Order

Error 1 : Resolution of Error B1888

The reason of this error is currency USD is not declared as primary while it has been used twice.

To resolve this please see the screenshots below

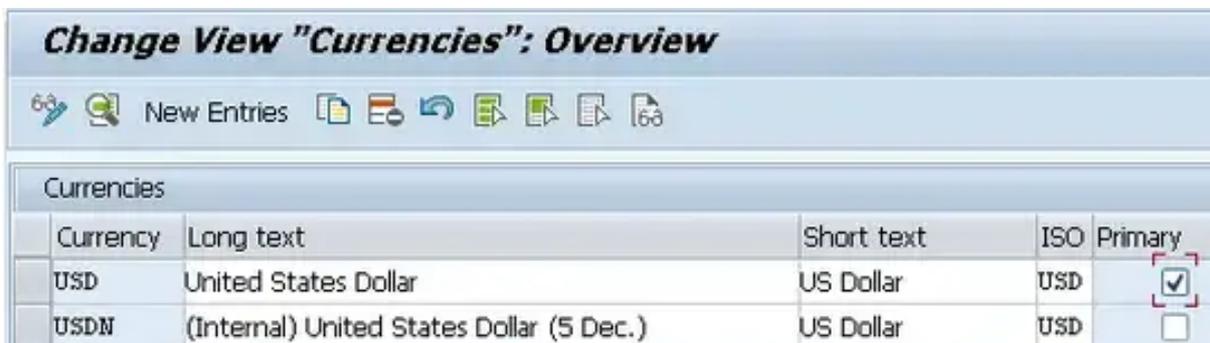
**SPRO → ABAP Platform → General settings → Currencies → Check Currency Codes**



**Change view "Currencies": Overview**

New Entries

Currency	Long text	Short text	ISO	Primary
USD	United States Dollar	US Dollar	USD	<input type="checkbox"/>
USDN	(Internal) United States Dollar (5 Dec.)	US Dollar	USD	<input type="checkbox"/>



**Change View "Currencies": Overview**

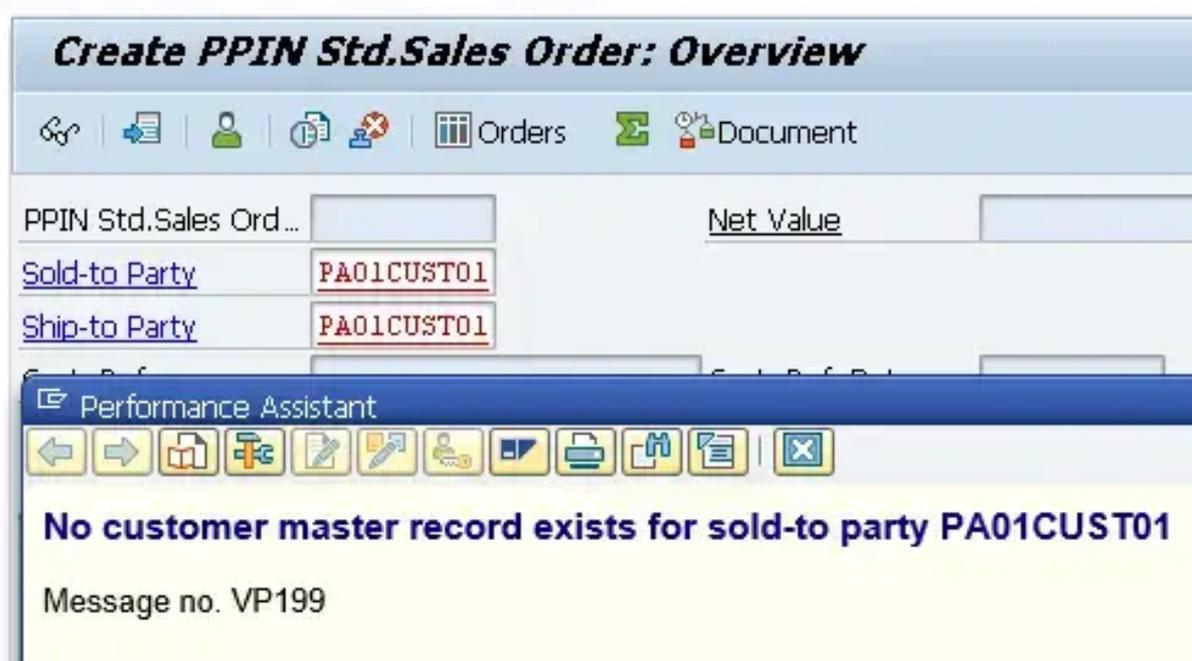
New Entries

Currency	Long text	Short text	ISO	Primary
USD	United States Dollar	US Dollar	USD	<input checked="" type="checkbox"/>
USDN	(Internal) United States Dollar (5 Dec.)	US Dollar	USD	<input type="checkbox"/>

**Picture : Unique Currency Issue Solution**

**Error 2**

Now system is throwing below error



Error 2 : Resolution of Error VP199

To resolve this error, we need to configure Partner determination for our customer group

Go to the below setting

**SPRO → Sales and Distribution → Basic Functions → Partner Determination –> Set Up Partner Determination → Set Up Partner Determination for Customer and Supplier Master**

T-Code – VOPAN

Select Activity:	
Activities	
Pe...	Name of Activity
	Set Up Partner Determination for Customer and Supplier Master
	Set Up Partner Determination for Sales Document Header
	Set Up Partner Determination for Sales Document Item
	Set Up Partner Determination for Delivery
	Set Up Partner Determination for Shipment
	Set Up Partner Determination for Billing Header
	Set Up Partner Determination for Billing Item

**Picture : Set Up Partner Determination**

We will Std. Partner Determination procedure “AG” which have Partner Functions “SP-Sold-to Party”, “BP-Bill-to Party”, “PY-Payer” & “SH Ship-to Party” as Partners Mandatory.

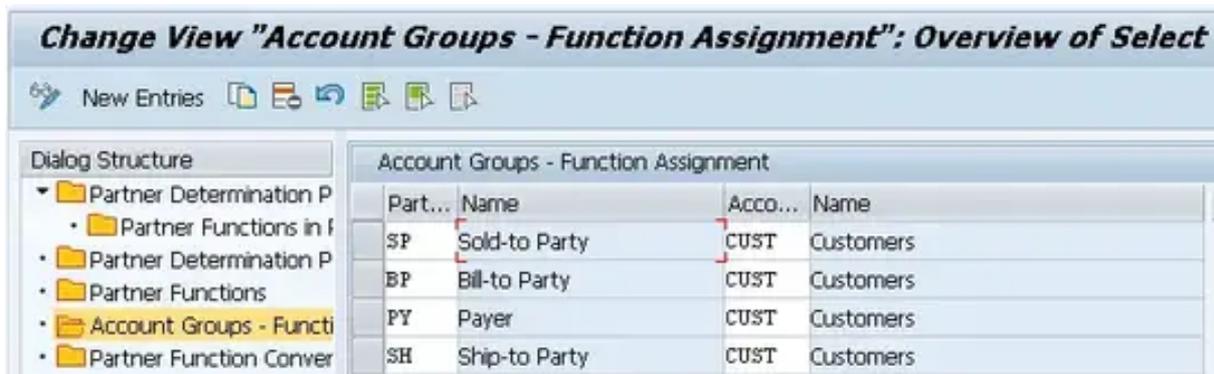
**Change View "Partner Functions in Procedure": Overview**

New Entries

Dialog Structure		Partner Functions in Procedure				
		ParPr	Funcnt	Name	C	PM
▼	Partner Determination P					
	• Partner Functions in f					
	• Partner Determination P					
	• Partner Functions					
	• Account Groups - Functi					
	• Partner Function Conver					
		AG	AA	SP Contract rel. ord	<input type="checkbox"/>	<input type="checkbox"/>
		AG	SP	Sold-to Party	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		AG	CP	Contact person	<input type="checkbox"/>	<input type="checkbox"/>
		AG	AW	SH Contract rel. ord	<input type="checkbox"/>	<input type="checkbox"/>
		AG	ED	EDI mail recipient	<input type="checkbox"/>	<input type="checkbox"/>
		AG	BU	Buyer	<input type="checkbox"/>	<input type="checkbox"/>
		AG	EU	Enduser for F.Trade	<input type="checkbox"/>	<input type="checkbox"/>
		AG	ES	External Agent	<input type="checkbox"/>	<input type="checkbox"/>
		AG	VN	Vendor	<input type="checkbox"/>	<input type="checkbox"/>
		AG	Q1	QtyCertRec/shpTo pt	<input type="checkbox"/>	<input type="checkbox"/>
		AG	Q2	QtyCertRec/soldTo pt	<input type="checkbox"/>	<input type="checkbox"/>
		AG	BP	Bill-to Party	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		AG	PY	Payer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		AG	SB	Spec.stock partner	<input type="checkbox"/>	<input type="checkbox"/>
		AG	CR	Forwarding Agent	<input type="checkbox"/>	<input type="checkbox"/>
		AG	TK		<input type="checkbox"/>	<input type="checkbox"/>

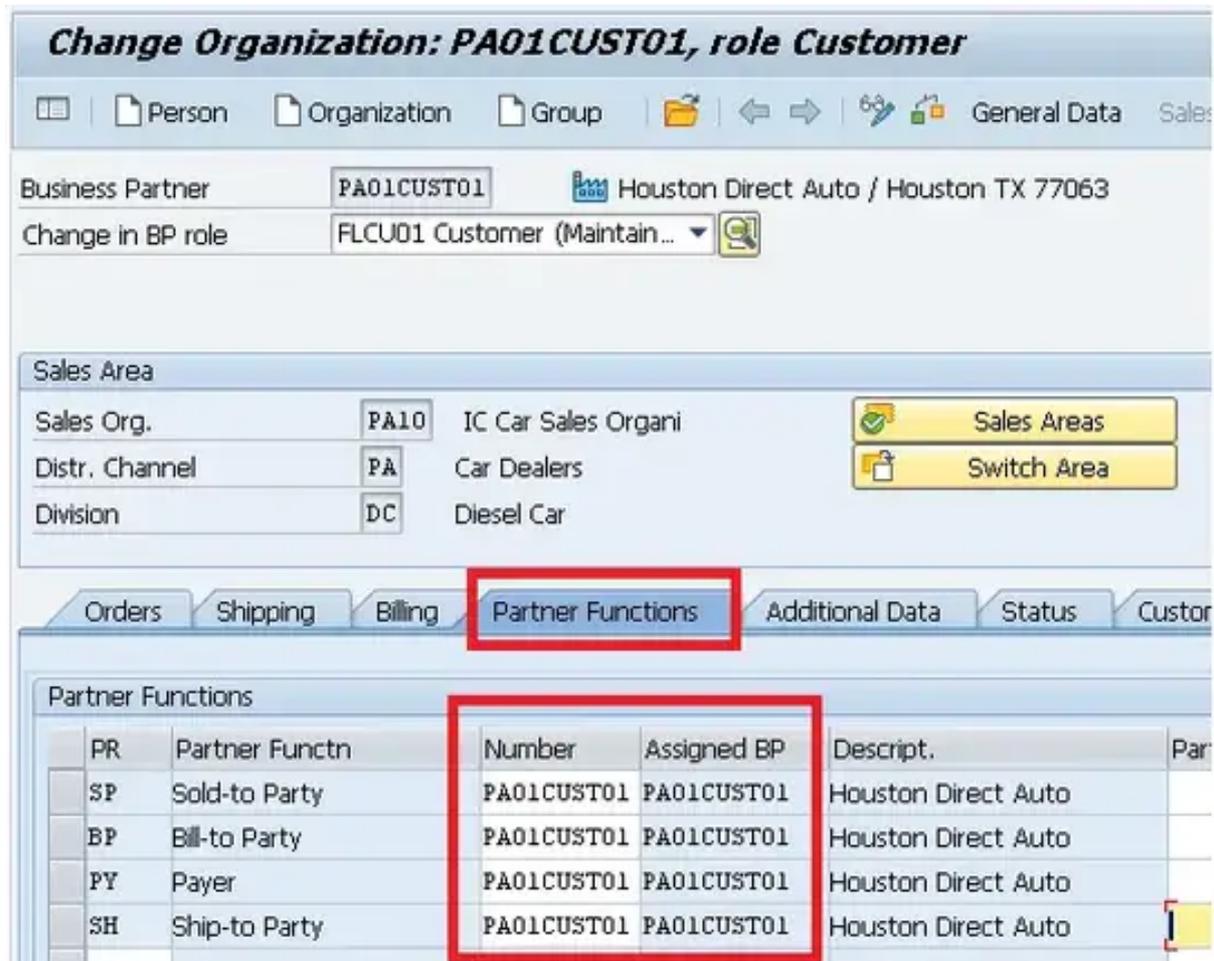
**Picture : Partner Determination procedure “AG”**

Since SP, BP, PY & SH are mandatory so we need to assign these to the Account group so that BP number can be copied to automatically for these partners.



**Picture : Assignment of Account Group to Partner Functions**

now in our BP "PA01CUST01" all the partner numbers will be copied



**Picture : Value of partner functions due to mandatory partners**

Both the errors are resolved now

Orders Document

PPIN Std Sales Oder  Net Value  USD

Sold-to Party  Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

Ship-to Party  Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

Cust. Reference  Cust. Ref. Date

Sales | **Item Overview** | Item detail | Ordering party | Procurement | Shipping | Reason for rejection

Req. Deliv.Date  Deliver.Plant

Complete Div.  Total Weight  KG

Delivery Block  Volume  CCM

Billing Block  Pricing Date

Pyt Terms

Inco. Version

Incoterms

Inco. Location1

Group

All Items

Item	Material	Req. Segment	Order Quantity	Un	S
	1066			10PC	<input checked="" type="checkbox"/>

Now click on "Display Header Details" as shown in the screenshot below

**Create PPIN Std Sales Oder: Overview**

PPIN Std Sales Oder  Net Value  USD

Sold-to Party  Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

Ship-to Party  Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

Cust. Reference  Cust. Ref. Date

Req. Deliv.Date  Deliver.Plant

Complete Div.  Total Weight  KG

Delivery Block  Volume  CCM

Billing Block  Pricing Date

Pyt Terms

Inco. Version

Incoterms

Inco. Location1

All Items

Item	Material	Req. Segment	Order Quantity	Un	S
	1066			10PC	<input checked="" type="checkbox"/>

**Picture : Display Header Details of the sales Order**

“Sales” header tab will be presented as shown in the below screenshot

System has determined pricing procedure as “PPIN01 -PPN Pricing P”

PPIN Std Sales Oder	<input type="text"/>	Customer Reference	FIRST Sales Order
Sold-to Party	PA01CUST01	Houston Direct Auto / 4011 Jeanetta St / Houston TX 770	

Sales	Shipping	Billing Document	Electronic Payments	Accounting	Conditions
-------	----------	------------------	---------------------	------------	------------

Order Type	YOR	PPIN Std Sales Oder	Document Date	19.01.2022
Sales Area	PA10 / PA / DC	IC Car Sales Organiz, Car Dealers, Diesel Car		
Sales office	<input type="text"/>	Created By	BEST	
Sales group	<input type="text"/>	Created on	19.01.2022	23:53:13
Version	<input type="text"/>	Guarantee	<input type="text"/>	
Order Reason	<input type="text"/>			
Delivery Time	<input type="text"/>			

Pricing and Statistics				
Doc. Currency	USD / 1.00000		Pricing Date	19.01.2022
Pric. Procedure	PPIN01	PPN Pricing Pro	Customer Group	<input type="text"/>
Price List Type	<input type="text"/>		Usage	<input type="text"/>

Click [HERE](#) to check the configuration behind Pricing procedure determination in sales order

Pricing procedure is determined in the sales order through combination of sales area, document pricing procedure & customer pricing procedure.

--> Document Pricing Procedure is flowing from the sales order type (YOR) configuration. Click [HERE](#) for detail

--> Customer Pricing Procedure is flowing from the Customer master. Click [HERE](#) for detail

Now click on Header "Shipping" tab

**Create PPIN Std Sales Oder: Header Data**

PPIN Std Sales Oder  Customer Reference   
 Sold-to Party  Houston Direct Auto / 4011 Jeanetta St / Houston TX 770...

Sales Shipping Billing Document Electronic Payments Accounting Conditions

Ship-to Party  Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

**Shipping**  
 Unloading Point  Receiving Point   
 Department   
 Delivery Block  Complete Dlv.   
 Shp.Cond.  Order Combinat.   
 DG Mgmt Profile  Contains DG

**Picture : Header "Shipping" tab**

This Shipping condition is flowing from the BP customer master role " FLCU01 Customer ". Please click [HERE](#) to check in detail

Now come back & double click on sales order line item to go to sales order line item details

Click on "shipping" tab

System will show the "Delivering Plant" & "Shipping point" as shown in the below screenshot

**Create PPIN Std Sales Oder: Item Data**

Sales Document Item: 10      Item category: YTAN      Standard Item  
 Material: 66      First PA10 Material for Car Dealershi

Sales A    Sales B    **Shipping**    Billing Document    Conditions    Account Assignment    Schedule

Ship-to Party: PA01CUST01    Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

**Shipping**

Unloading Point		Receiving Point	
Department		Delivery Prior.	2    Normal item
Plant	PA10    PPIC Chicago Plant	Stor. Location	
Shipping Point	PA10    IC Car Chicago Plant Outbo...	Part.Div./Item	
Route		Max.Part.Deliv.	

**Picture : Delivering Plant & Outbound Shipping Point in Sales Order**

#### 2.1.1.2 Delivering Plant in Sales Order

Delivering plant plays a vital role in sales order. the below functions can not work in the absence of delivering plant

--> Tax determination in sales order

--> Availability Check

--> Shipping Point Determination

Delivering plant in sales order can be determined automatically based on the three sources.

Delivering plant default value in sales order comes either

--> From the customer-material info record

or

--> From the Ship-to-Party customer master

or

--> From the material master record.

Note : We can manually change delivering plant value in the sales order (which is determined automatically)

### 2.1.1.3 Shipping Point Determination in Sales Order

Shipping point is very important in the shipping process. There must be a shipping point assigned in order for the system to be able to process the deliveries.

Shipping point is determined from the combination of

--> Delivering Plant in Sales Order determined as explained above

--> Shipping condition from the customer master

--> Loading Group from the Material Master

Please check the below post for shipping point determination & other Logistics Execution (LE) details

### **[Configure SAP S4 HANA Logistics Execution Organization Structure in 5 Minutes](#)**

#### **2.1.1.4 Pricing in Sales Order**

In the Sales order, the price of goods are determined by the pricing functions

The pricing is determined based on certain conditions like cost of materials, manufacturing, shipping, sales tax, etc.

We have used the below pricing conditions for our car business

--> PR00 (Gross Price) --> SAP Standard

--> Y007 (Customer Discount) --> Copy from Std K007

--> Y005 (Disc.Customer/Material) --> Copy from Std K005

```

--> YB00 (Discount (Value)) --Copy from Std RB00

--> YF00 (Freight) --Copy from Std KF00

--> YD00 (Freight) --Copy from Std HD00

--> UTXJ (Tax Jurisdict.Code) --> SAP Standard

--> JR1      (Tax Jur Code Level 1)

--> JR2      (Tax Jur Code Level 2)

--> JR3      (Tax Jur Code Level 3)

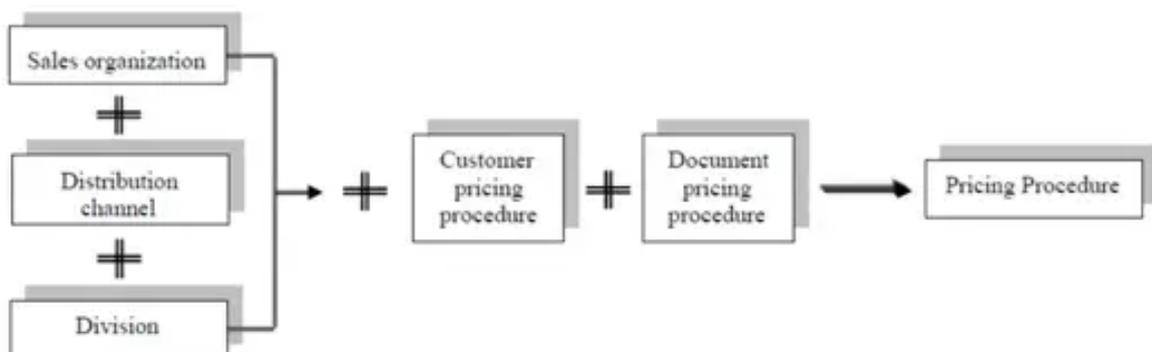
--> VPRS (Internal price) --> SAP Standard

```

These conditions are arranged in order which is called pricing procedure.

We have configured a customized Pricing Procedure “PPIN01- PPN Pricing Procedure” for our car business.

This pricing procedure is determined as given in the below picture



**Picture : Pricing Procedure Determination**

Please check the below post to read more

--> On the pricing conditions with each field explained.

--> On the Configuration of the Pricing Procedure

--> On determination of the Pricing Procedure

[The Ultimate SAP S4 HANA Sales Pricing Guide with FAQ](#)

in our sales order pricing procedure is determined based on the above.

Please see the screenshot of the pricing procedure & its conditions determined in our sales order.

To see the click on “Conditions” tab on line item level

**Create PPIN Std Sales Oder: Item Data**

Sales Document Item: 10      Item category: YTAM      Standard Item  
 Material: 66      First PA10 Material for Car Dealership

Sales A   Sales B   Shipping   Billing Document   **Conditions**   Account Assignment   Schedule lines

Quantity: 10 PC      Net: 320.00 USD  
 Tax: 65.74

Condition Record      Analysis      Update

**Pricing Elements**

I... CnTy	Description	Amount	Crcy	per	U...	Condition Value	Curr.	Status	Nur
PR00	Price	30.00	USD		1PC	300.00	USD		
	Gross Value	30.00	USD		1PC	300.00	USD		
YB00	Discount (Value)	10.00	USD			10.00	USD		
	Discount Amount	1.00	USD		1PC	10.00	USD		
	Net Value for Item	31.00	USD		1PC	310.00	USD		
YF00	Freight PPIN	1.00	USD		1PC	10.00	USD		
	Net Value 2	32.00	USD		1PC	320.00	USD		

Picture : Screen 1 of the Pricing Procedure Determined in our Sales Order

**Create PPIN Std Sales Oder: Item Data**

Sales Document Item: 10      Item category: YTAM      Standard Item  
 Material: 66      First PA10 Material for Car Dealership

Sales A   Sales B   Shipping   Billing Document   **Conditions**   Account Assignment   Schedule lines

Quantity: 10 PC      Net: 320.00 USD  
 Tax: 65.74

Condition Record      Analysis      Update

**Pricing Elements**

I... CnTy	Description	Amount	Crcy	per	U...	Condition Value	Curr.	Status	Nur
	Net Value 2	32.00	USD		1PC	320.00	USD		
UTXJ	Tax Jurisdiction Code	100.000	%			320.00	USD		
JR1	Tax Jur Code Level 1	6.000	%			38.40	USD		
JR2	Tax Jur Code Level 2	3.000	%			20.35	USD		
JR3	Tax Jur Code Level 3	1.000	%			6.99	USD		
	Total	38.57	USD		1PC	385.74	USD		
VPRS	Internal price	16.08	USD		1PC	160.80	USD		
	Standard - USA /With	15.92	USD		1PC	159.20	USD		

Picture : Screen 2 of the Pricing Procedure Determined in our Sales

## Order

**Create PPIN Std Sales Order: Item Data**

Sales Document Item: 10    Item category: YTAN    Standard Item  
Material: 66    First PA10 Material for Car Dealership

Sales A   Sales B   Shipping   Billing Document   Conditions   Account Assignment   Schedule lines   Partner   Text

Fixed Date and Qty:     Order Quantity: 10 PC  
Delivery Time:     Delivered qty: 0

Quantities/Dates

P	Delivery D...	Order Quantity	Rounded qty	Confirmed Qty	S...	Delivery Block	Delivered qty	Sc...	Pr...
D	10.02.2022		10	10	PC			YN	

**Picture : Screen 3 of the Pricing Procedure Determined in our Sales Order**  
Now save the sales order

**PPIN Std Sales Oder 98 has been saved.**

Message no. V1311

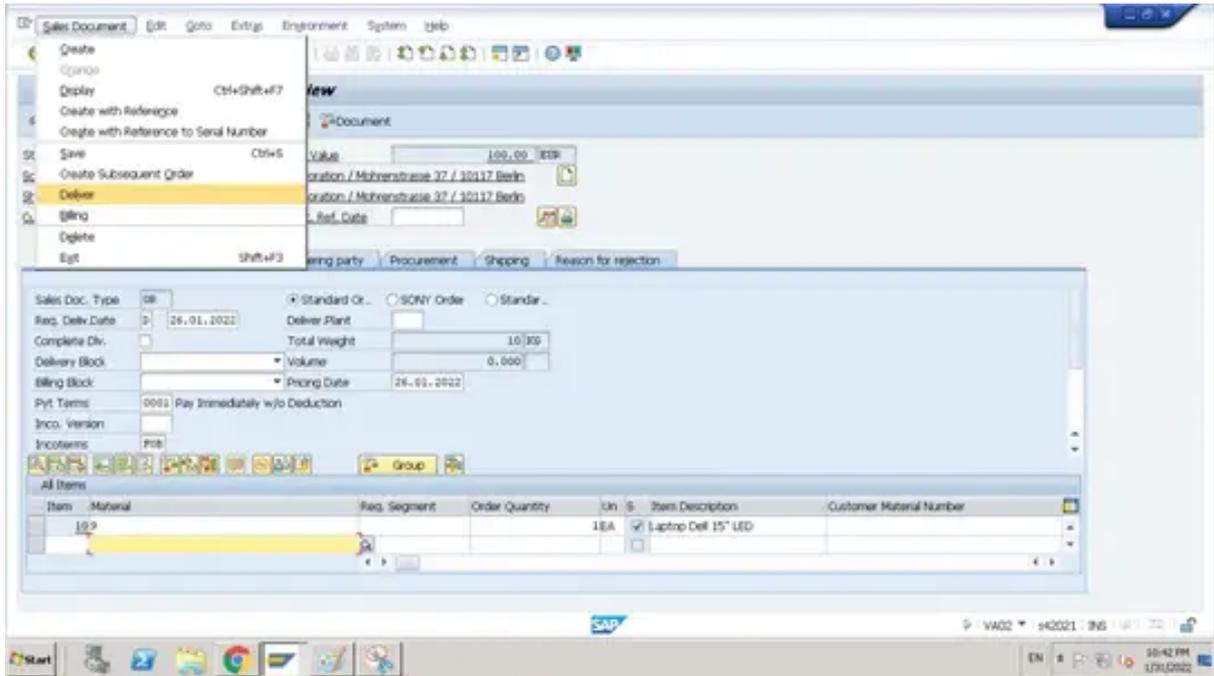
**Picture : Standard Sales**

**Order for customer is created**

### 2.1.2 Creation of Outbound Delivery

Now we will create the outbound delivery based on this sales order

Go to VA02 and click on "Sales Document" and then click on "Deliver"



Picture : Outbound Delivery Creation

### 2.1.2.1 Copy-Control missing error for “YTAN” Item Category

System displayed “Copy Control” missing error for “YTAN” item category.



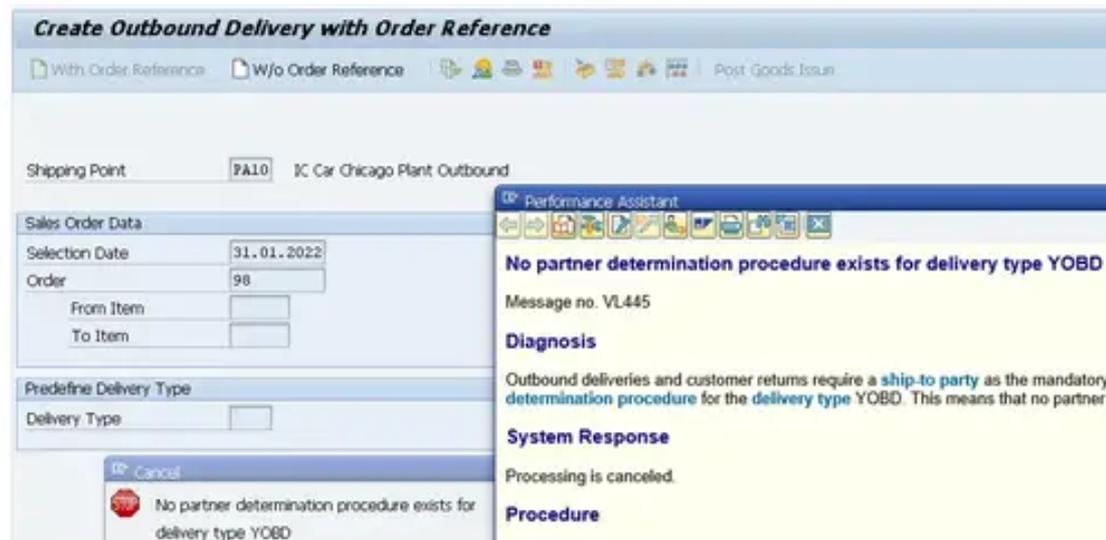
Picture : Copy Control” missing error for “YTAN” item category

Please click [HERE](#) to see how copying control was maintained to resolve this error

Again go to VA02 and click on “Sales Document” and then click on “Deliver”. System is showing now missing partner determination error.

### 2.1.2.2 Error VL445 -Partner Determination Missing

System is now showing partner determination error .Please see the below screenshot to see the exact error description.



**Picture : Partner Determination Missing Error**

To resolve this error we have assigned standard “LF” partner determination procedure to our delivery type “YOBD”

### Change View "Partner Determination Procedure Assignment": C

New Entries

Dialog Structure

- Partner Determination P
  - Partner Functions in f
    - Partner Determination P**
    - Partner Functions
    - Account Groups - Functi
    - Partner Function Conver

Partner Determination Procedure Assignment			
Dlv....	Name	Part...	Name
UL	Del.for Stock Trans.	L0	Delivery w/o Order
VLRL	VMS>Returns Delivery	LF	Delivery note
WID	WMS Inbound Delivery	DIL0	Inbound dlv. w/o ref
WIG	Other WMS Inb. Del.	DIL0	Inbound dlv. w/o ref
WMPP	WM-PP Delivery	0D	Outb.deliv.GI mwmnt
WNL	Replenishment WMS	L0	Delivery w/o Order
WOD	WMS Outbound Deliv.	L0	Delivery w/o Order
WOG	Other WMS Outb. Del.	L0	Delivery w/o Order
WRD	Cust. Returns WMS	LF	Delivery note
WTR	Decentr. Pstng Chnge	L0	Delivery w/o Order
YEL	Inbound Delivery PPL	EL	Shipping Notif.
YNL	Replenishment Dlv.	LF	Delivery note
YNLC	Replen.Cross-Company	LF	Delivery note
YOBD	PPIN Cust Outbnd Div	LF	Delivery note
ZAEL	Inbound Delivery-ASR	EL	Shipping Notif.

Now again go to VA02 and click on "Sales Document" and then click on "Deliver"

System has successfully created outbound delivery

### PPIN Cust Outbnd Div 80000068 Change: Overview

Post Goods Issue    Display IT Calls

Outbound Deliv. 80000068    Document Date 02.02.2022

Ship-to Party PA01CUST01    Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

Item Overview    Picking    Loading    Shipment    Status Overview    Goods Movement Data

Planned GI 10.02.2022 00:00    Total Weight 200 KG

Actual GI Date    00:00    No. of Packages

Item	Material	Deliv. Qty	Un	Description	Req. Segment	Stock Segment	ITCa
10	66	10	PC	First PA10 Material for Car Dealership			YTAN

Picture : Outbound Delivery creation

**PPIN Cust Outbnd Dlv 8000068 Change. Header Details**

Post Goods Issue    Display JIT Calls

Ship-to Party: PA01CUST01    Houston Direct Auto / 4011 Jeanetta St / Houston TX 77063

Processing    Picking    Loading    Shipment    International Trade    Financial Processing    **Administration**

Organization

Ext. Delivery: [Yellow Box]    Free Usage

Outbnd Deliv Gp: [Yellow Box]

**Shipping Point: PA10    IC Car Chicago Plant Outbound**

Sales Org.: PA10    IC Car Sales Organiz

Sales office: [Empty]

Document Editing

Created By: BEST    Created On: 02.02.2022 19:31:47

Changed By: [Empty]    Changed On: [Empty]

Control

Delivery Prior.: 2    Normal Item     Complete Dlv.

Delivery Block: [Empty]     Order Combinat.

**Delivery Type: YOBD    PPIN Cust Outbnd Dlv**    CD Process: [Empty]

**Picture : Delivery Type & Shipping Point in our OBD**  
 For our newly created Outbound Delivery

-->Delivery Type determined is "YOBD"

-->Item Category determined is "YTAN"

-->Shipping Point determined is "PA10"

Please check the below posts for detail configuration of the above

--> [Configure SAP S4 HANA Sales Documents](#)

--> [Configure SAP S4 HANA Logistics Execution Organization Structure](#)

### 2.1.2.3 Post Goods Issue (PGI) 1st Step -Outbound Delivery Picking

Outbound delivery based goods issue is done in two steps. First step is picking of the goods and second step is Goods issue.

Start VL02N & input you delivery number . Press enter

Click on “Picking” tab

The screenshot shows the SAP interface for 'PPIN Cust Outbnd Div 80000068 Change: Overview'. The 'Picking' tab is selected. The 'OvrPickStatus' is 'A Not Yet Picked' and 'Deliv. Qty' is 10. The 'Picked Qty' is also 10. The 'Plnt SLoc' is 'PA10 PPIA'. The 'Un Picked Qty' is 0. The 'Un Batch' is 'PC'.

Item	Material	Plnt	SLoc	Req. Segment	Deliv. Qty	Un	Picked Qty	Un	Batch
10	66	PA10	PPIA		10	PC		PC	

Picture : Outbound Delivery “Picking”  
input picking qty same as delivery quantity 10

--> Please note that you need to pick full delivery quantity in order to be able to do goods issue (PGI).

--> If lesser quantity from delivery quantity is available for pick, then change the delivery qty equal to the qty available for picking.

### 2.1.2.4 Post Goods Issue (PGI) 2nd Step -Goods Issue.

As soon as outbound delivery pick quantity is entered , put-away status is changed from “A-Not Yet Picked” to “C-Fully Picked”



**Picture : Outbound Delivery “Fully Picked”**

Now press on “Post Goods Issue”.



**Picture : Goods Issue Error M8147**

2.1.2.4.1 Error Message M8147 : Account determination for entry PPIN GBB \_ 3100 not possible

To resolve this error we have to configure SD-FI integration. Please check the below post for the further process

## Configure SAP S4 HANA Logistics Execution Organization Structure

### 1. Step 1-Define Loading Groups

Three Loading Groups (PA10-Manual Load, PA11-With forklift, PA12-With Crane) Created.

### 2. Step 2- Define Transportation Groups

Two Transportation groups (PA10-Normal Transports, PA11-Special Car Carrier Required) Created.

### 3. Step 3- Define Shipping Conditions

Shipping Conditions (P1-Standard, P2-Pick-up, P3-Immediately, P4-Transport Service, RE>Returns) Created.

#### **4. Step 4- Define Storage Conditions**

Three Storage Conditions (P1-IM Managed Stock, P2-WM Managed Stock, P3-EWM Managed Stock) Created.

#### **5. Step 5- Define Shipping Point**

one Inbound and one outbound Shipping point is created for all three plants. So for Plant PA10, two shipping points as PA10-IC Car Chicago Plant Outbound, PA20-IC Car Chicago Plant Inbound. Similarly for plant PA20 & PP10 inbound & Outbound shipping point has been created.

#### **6. Step 6- Assign Shipping Point to Plant**

Inbound & outbound shipping points created in above step are assigned to each corresponding plant

#### **7. Step 7- Shipping Point Determination**

Shipping point determination is maintained as a combination of Plant\*Loading Group\*Shipping Condition

#### **8. Step 8- Determine Picking Location**

Picking location determination configured as per rule "MALA" as Shipping Point\*Storage Condition\*Plant

#### **9. Step 9- Determine Good Receipt point**

Inbound Shipping point is determined as a combination of Plant & Storage Location

#### **10. Step 10- Maintain Transportation Planning Point**

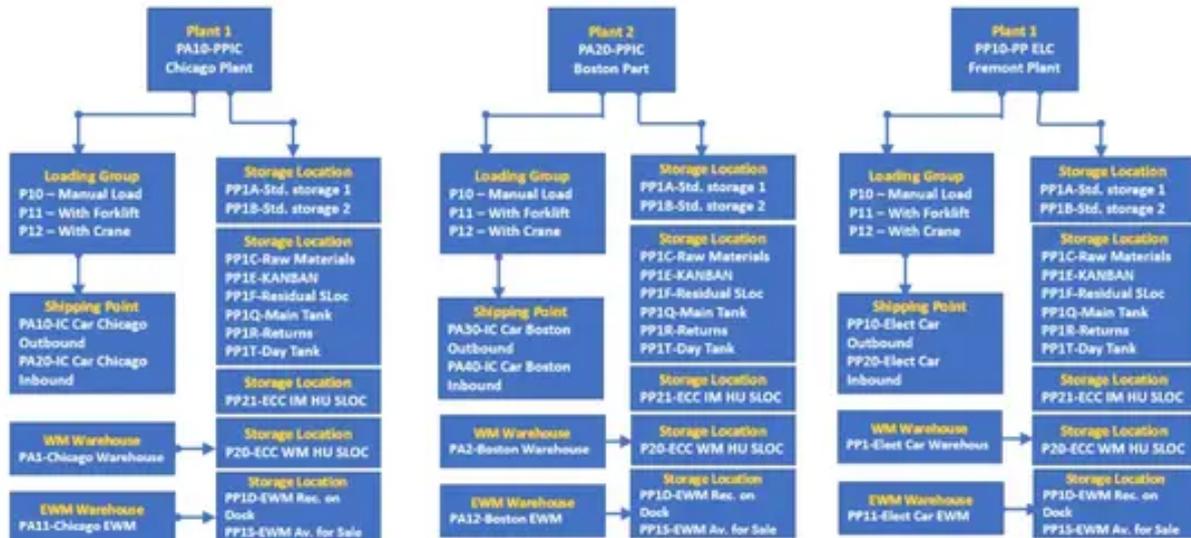
Two Transportation Planning points (PA10-PPIC Transport Planning Point, PP10-PPELEC Transport Planning Point Created)

1. Logistics Execution (LE) Organization Structure in S4 HANA
  - 1.1 Logistics execution (LE) in SAP ECC
  - 1.2 Logistics execution (LE) in SAP S4 HANA
    - 1.2.1 Shipping in SAP S4 HANA
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2. Configuration of LE Organization Structure
  - 2.1 Define Loading Groups
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  - 2.3 Define Shipping Conditions
  - 2.4 Define Storage Conditions
  - 2.5 Define Shipping Points
  - 2.6 Assign Shipping Point to Plant
  - 2.7 Shipping Point Determination
  - 2.8 Assign Picking Location
    - 2.8.1 Picking Rule "MALA"
    - 2.8.2 Picking Rule "RETA"
    - 2.8.3 Assignment of Picking Rule
  - 2.9 Assign Goods Receiving Points for Inbound Deliveries
3. Maintain Transportation Planning Point
4. Define Warehouse Number
5. Assign Warehouse Number

## 1. Logistics Execution (LE) Organization Structure in S4 HANA

Please see below all the components of SAP S4 HANA Logistics execution organization structure elements in pictorial form, which we will configure in this post.

# PPIN Group Car Business LE Organization Structure



Picture : S4 HANA LE Org Structure in Pictorial Form

Before proceeding towards SAP S4 HANA Logistics Execution, organization structure, we need to understand the difference between Logistics execution in ECC and Logistics execution in S4 HANA

## 1.1 Logistics execution (LE) in SAP ECC

In SAP ECC business suite, Logistics execution is a combination of the below components

- Shipping
  - Inbound Deliveries
  - Outbound Deliveries
- Transportation (LE-TRA)
- Warehouse Management (LE-WM)

## 1.2 Logistics execution (LE) in SAP S4 HANA

SAP S/4HANA is successor of SAP R/3 and SAP ERP and is optimized for SAP's in-memory database SAP HANA.

As SAP Business Suite 4 only runs on the SAP HANA database it is packaged as one product, SAP S/4HANA. While SAP's classical R3, ERP and ECC based

business suite and related products were designed to run on several database platforms, including those from Oracle, Microsoft and IBM.

### **1.2.1 Shipping in SAP S4 HANA**

Shipping is not much change in S4 HANA. Sap S4 HANA also uses the outbound & inbound delivery and respective configuration same as SAP classic R/3 or ECC.

### **1.2.2 Transportation in S4 HANA**

As per SAP simplification document, LE-TRA is not the target architecture within SAP S/4 HANA and the recommendation is to use Transportation Management (SAP TM). Even though LE-TRA functionality is still available within the SAP S/4 HANA, this is not considered as future technology. So basically TM replaces LE-TRA in S4 HANA.

### **1.2.3 Warehouse Management in S4 HANA**

As per SAP simplification document, LE-WM is not the target architecture within SAP S/4 HANA and the recommendation is to use Extended Warehouse Management (SAP EWM). Even though LE-WM functionality is still available within the SAP S/4 HANA, this is not considered as future technology. So basically EWM replaces LE-WM in S4 HANA.

The earliest version of EWM till 2016 were only available as a decentralize EWM is on a separate server built either on on NetWeaver or SCM stack with any database. Then from 1809, decentral EWM is built on S/4HANA platform with HANA database.

from S4 HANA 1609 , an embedded version of EWM is also available within Sap S4 HANA.

## **2. Configuration of LE Organization Structure**

In this section we will configure all the components of LE organization structure one by one in detail.

## 2.1 Define Loading Groups

loading groups is defined here in the material master record for the sales data for each plant. Loading group is a mandatory entry to determine shipping points

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Basic Shipping Functions → Shipping Point and Goods Receiving Point Determination → Define Loading Groups</i>
<b>Transaction Code</b>	OVSX

Picture : Path to Define Loading Groups

Loading Group	Description
<input type="checkbox"/> PA10	Manual Load
<input type="checkbox"/> PA11	With forklift
<input type="checkbox"/> PA12	With Crane

Picture : Define Loading Group for PA10 & PA20 Plants

Routes: Loading Groups	
Loading Group	Description
<input type="checkbox"/> PP10	Manual Load
<input type="checkbox"/> PP11	With forklift
<input type="checkbox"/> PP12	With Crane

Picture : Define Loading Group for PP10 Plant

## 2.2 Define Transportation Groups

The transportation group is material specific which groups the material with similar requirements for transportation.

Note : Route is determined only if the transportation group is included in the material master as transportation group is a prerequisite for route determination

Created below transportation group for our companies

<b>IMG Menu</b>	<i>Sales and Distribution → Basic Functions → Routes → Route Determination → Define Transportation Groups</i>
<b>Transaction Code</b>	OVSY

**Picture : Path to Define Transportation Groups**

**Delivery Scheduling: Transport Groups**

Trans. Grp	Description
<input type="checkbox"/> PA10	Normal Transports
<input type="checkbox"/> PA11	Special Car Carrier

**Picture : Define Transportation Groups for PA10 & PA20 Plants**

**Delivery Scheduling: Transport Groups**

Trans. Grp	Description
<input type="checkbox"/> PP10	Normal Transports
<input type="checkbox"/> PP11	Special Car Carrier

**Picture : Define Transportation Groups for PP10 Plant**

## 2.3 Define Shipping Conditions

Define the conditions that need to be met for goods to be shipped. This is entered in customer master. Shipping point determination is carried out by the SAP system only if a shipping condition is contained in the sales document.

Note : We can also determine a shipping condition for each sales document type. This shipping condition is then used for determining the shipping point in the sales document instead of what is specified in the customer master record

Below Shipping Conditions are created for our car business

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Basic Shipping Functions → Shipping Point and Goods Receiving Point Determination → Define Shipping Conditions</i>
<b>Transaction Code</b>	OVSE

Picture : Path to Define Shipping Conditions

Shipping Conditions	
Shipping Condition	Description
<input type="checkbox"/> P1	Standard
<input type="checkbox"/> P2	Pick-up
<input type="checkbox"/> P3	Immediately
<input type="checkbox"/> P4	Transport Service

Picture : Define Shipping Conditions

## 2.4 Define Storage Conditions

Define how goods should be stored. Storage conditions are entered in the material master record for each storage location.

Below storage conditions are defined for our car business

<b>IMG Menu</b>	<i>Logistics Execution → Shipping → Picking → Determine Picking Location → Define storage conditions</i>
-----------------	--

Picture : Path to Define Storage Conditions

Below 4 Storage conditions are configured for our car business

- P1-IM Managed Stock
- P2-WM Managed Stock
- P3-EWM Managed Stock
- P4-IM Managed HU Required Managed Stock
- P5 -WM HU Managed Stock

So depending upon the material handling i.e. material is inventory managed or HU mandatory or Warehouse Managed or EWM managed , we will input storage condition in the material master

Now picking location is combination of shipping point \* Plant \* Storage conditions

Storage Conditions		
	SC	Description
<input type="checkbox"/>	P1	IM Managed Stock
<input type="checkbox"/>	P2	WM Managed Stock
<input type="checkbox"/>	P3	EWM Managed Stock
<input type="checkbox"/>	P4	IM HU Manadatory
<input type="checkbox"/>	P5	WM HU Managed Stock
<input type="checkbox"/>	YE	Standard EWM

**Picture : Define Storage Conditions**

## 2.5 Define Shipping Points

A shipping point is the top level in the organization for shipping. It can be allocated to several plants. and can be divided into several loading points.

The shipping point can be proposed automatically during order processing depending on the plant, loading group and shipping condition.

<b>IMG path</b>	<i>Enterprise Structure → Definition → Logistics E</i> <i>copy, delete, check shipping point</i>
<b>Transaction</b>	OVXD <span style="float: right;">CM</span>

**Picture : Path to Define Shipping Points**  
**IC Car Shipping Points**

Shipping Point	Description
<input type="checkbox"/> PA10	IC Car Chicago Plant Outbound
<input type="checkbox"/> PA20	IC Car Chicago Plant Inbound
<input type="checkbox"/> PA30	IC Car Boston Plant Outbound
<input type="checkbox"/> PA40	IC Car Boston Plant Inbound

**Picture : Define Shipping Points for PA10 & PA20 Plants  
Elect Car Shipping Points**

Shipping Point	Description
<input type="checkbox"/> PP10	Elect Car Fremont Plant Outbou
<input type="checkbox"/> PP20	Elect Car Fremont Plant Inboun

**Picture : Define Shipping Points for PA10 Car Plant**

## 2.6 Assign Shipping Point to Plant

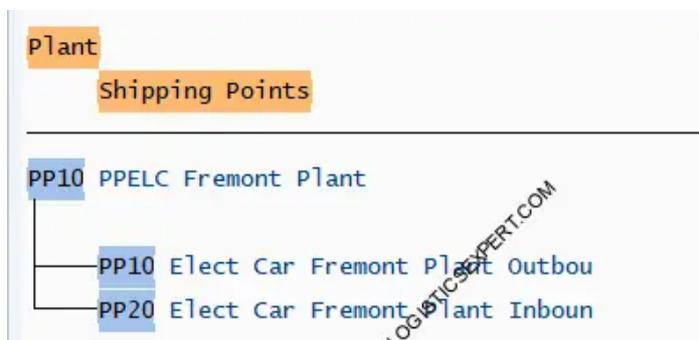
We can allocate as many shipping points as desired to the plants. Any one shipping point can belong to several plants.

We have assigned shipping points to our respective car plants as below

### IC Car Plants



**Picture : Assign Shipping Point to Plant for IC Car Plants Electrical car Plant**



**Picture : Assign Shipping Point to Plant for Elect Car Plants**

## 2.7 Shipping Point Determination

System allocates the shipping points to the desired combinations of shipping condition and loading group for each plant.

Note : Only Outbound Shipping Point has been configured here. There is a separate node for inbound shipping point configuration

<b>IMG path</b>	Logistics Execution → Shipping → Basic Shipping Functions → Shipping Point and Goods Receiving Point Determination → Assign Shipping Points
<b>Transaction code</b>	OVL2

**Picture : Path to Shipping Point Determination**

Shipping Point Determination			
Shipping Condition	Loading Group	Plant	Proposed Shipping Point
<input type="checkbox"/> P1	<input type="checkbox"/> 0	PA10	PA10
<input type="checkbox"/> P2	PA10	PA10	PA10
<input type="checkbox"/> P3	PA10	PA10	PA10
<input type="checkbox"/> P4	PA10	PA10	PA10
<input type="checkbox"/> P1	PA11	PA10	PA10
<input type="checkbox"/> P2	PA11	PA10	PA10
<input type="checkbox"/> P3	PA11	PA10	PA10
<input type="checkbox"/> P4	PA11	PA10	PA10
<input type="checkbox"/> P1	PA12	PA10	PA10
<input type="checkbox"/> P2	PA12	PA10	PA10
<input type="checkbox"/> P3	PA12	PA10	PA10
<input type="checkbox"/> P4	PA12	PA10	PA10
<input type="checkbox"/> P1	PA10	PA20	PA30
<input type="checkbox"/> P2	PA10	PA20	PA30

**Picture : Shipping Point Determination**  
Note

Shipping point determination in sales order/outbound delivery is mandatory in order for the system to be able to process the shipping process. Please click **HERE** to see the testing of determination of sales order at the time of sales order creation

## 2.8 Assign Picking Location

The picking rule defines how the system determines the picking location

There are two rules for picking location determination. We can not change them

### **2.8.1 Picking Rule “MALA”**

MALA rule determine the picking location according to:

- Storage condition from the material master
- Delivering plant of the delivery item
- Shipping point of the delivery (see the section above on Shipping point determination)

We will use “MALA” picking rule

### **2.8.2 Picking Rule “RETA”**

RETA rule is generally used in retail sector

- Storage location
- Delivering plant of the delivery item
- Situation

### **2.8.3 Assignment of Picking Rule**

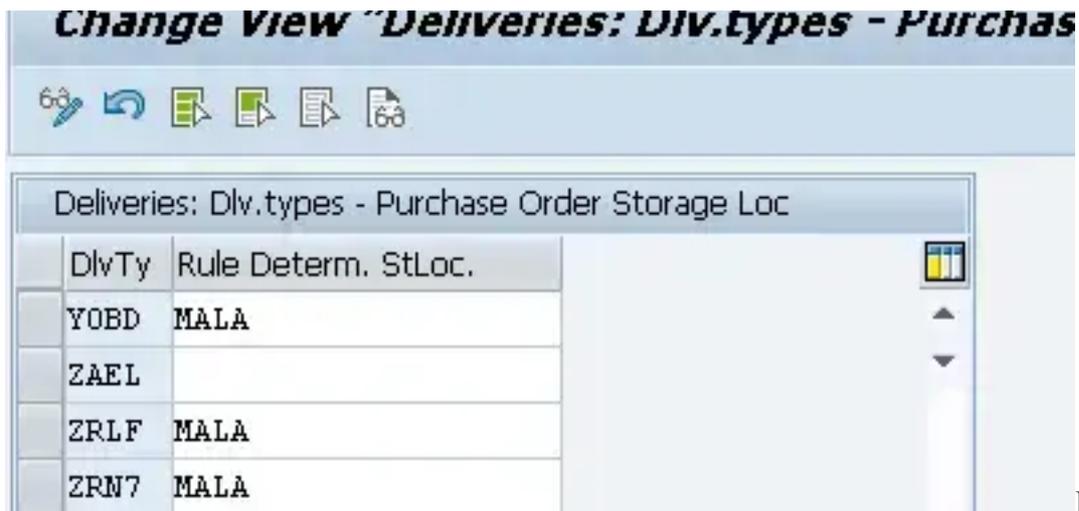
Picking rule is assigned to delivery type

for our car business, we have configured a customized delivery type “YOBD”

Please refer to “6.1- Delivery type” to check the detail of “YOBD” delivery type configuration

Let,s assigned the “MALA” picking rule to our delivery type “YOBD”

**SPRO → IMG → Logistics Execution → Shipping → Picking → Determine Picking Location → Define Rules for Picking Location Determination**



Picture :

So as per rule “MALA”, we will assign the picking locations to the combinations of shipping point and storage condition for every plant.

Note : We will determine picking storage locations in outbound deliveries. Since we have all type of storage locations like Std Storage Locations, IM HU Managed SLOC, WM Managed, EWM Managed so we need to determine picking storage locations corresponding to storage conditions accordingly.

EWM Picking location in outbound deliveries will be “PP1S – EWM Available for sales” , which is different from EWM Inbound deliveries SLOC as “PP1D – EWM Receive on Dock”. The available stock is changed from PP1D to PP1S through EWM functionality of stock availability

- IM Picking -If a Material is managed in IM SLOC then IM Standard SLOC should be determined
- IM With HU Mandatory – If a material is managed in IM SLOC but HU is mandatory
- WM Picking – If a Material is managed in WM then WM managed SLOC should be determined
- EWM Picking -If a Material is managed in EWM then a EWM managed SLOC should be determined
- WM With HU Mandatory – If a material is managed in WM SLOC but HU is mandatory

<b>IMG path</b>	<i>Logistics Execution → Shipping → Picking → Determine Picking Location → Assign Picking Location</i>
<b>Transaction code</b>	OV L3

PERT.COM

Picking Location Determination				
	ShPt	Plnt	SC	SLoc
<input type="checkbox"/>	PA10	PA10	P1	PP1A
<input type="checkbox"/>	PA10	PA10	P2	PP20
<input type="checkbox"/>	PA10	PA10	P3	PP21
<input type="checkbox"/>	PA10	PA10	P4	PP21
<input type="checkbox"/>	PA10	PA10	P5	PA22
<input type="checkbox"/>	PA30	PA20	P1	PP1A
<input type="checkbox"/>	PA30	PA20	P2	PP20
<input type="checkbox"/>	PA30	PA20	P3	PP21
<input type="checkbox"/>	PA30	PA20	P4	PP21
<input type="checkbox"/>	PA30	PA20	P5	PA22
<input type="checkbox"/>	PP10	PP10	P1	PP1A
<input type="checkbox"/>	PP10	PP10	P2	PP20
<input type="checkbox"/>	PP10	PP10	P3	PP21
<input type="checkbox"/>	PP10	PP10	P4	PP21

Picture 1

Picture : Determination of

Picking Location Determination				
	ShPt	Plnt	SC	SLoc
<input type="checkbox"/>	PP10	PP10	P5	PA22

Location

Picture : Determination of Picking

## 2.9 Assign Goods Receiving Points for Inbound Deliveries

Here we define the determination of inbound shipping point corresponding to Storage location.

Note : Storage location in inbound delivery depends on the SLOC given in Purchase Order Which comes from material master record. Here we will assign inbound shipping point corresponding to every Plant & every SLOC.

Picture : GR Point Determination ....To Be Continued

<input type="checkbox"/>	PA20	PP1A	PA40
<input type="checkbox"/>	PA20	PP1B	PA40
<input type="checkbox"/>	PA20	PP1C	PA40
<input type="checkbox"/>	PA20	PP1D	PA40
<input type="checkbox"/>	PA20	PP1E	PA40
<input type="checkbox"/>	PA20	PP1F	PA40
<input type="checkbox"/>	PA20	PP1Q	PA40
<input type="checkbox"/>	PA20	PP1R	PA40
<input type="checkbox"/>	PA20	PP1S	PA40
<input type="checkbox"/>	PA20	PP1T	PA40
<input type="checkbox"/>	PA20	PP20	PA40
<input type="checkbox"/>	PA20	PP21	PA40
<input type="checkbox"/>	PP10	PP1A	PP20

Picture : GR Point

Determination ....TB

<input type="checkbox"/>	PP10	PP1A	PP20
<input type="checkbox"/>	PP10	PP1B	PP20
<input type="checkbox"/>	PP10	PP1C	PP20
<input type="checkbox"/>	PP10	PP1D	PP20
<input type="checkbox"/>	PP10	PP1E	PP20
<input type="checkbox"/>	PP10	PP1F	PP20
<input type="checkbox"/>	PP10	PP1Q	PP20
<input type="checkbox"/>	PP10	PP1R	PP20
<input type="checkbox"/>	PP10	PP1S	PP20
<input type="checkbox"/>	PP10	PP1T	PP20
<input type="checkbox"/>	PP10	PP20	PP20
<input type="checkbox"/>	PP10	PP21	PP20

Continued

GR Point Determination ..Final Entries

Picture :

### 3. Maintain Transportation Planning Point

The transportation planning point is responsible for planning shipments

<b>IMG path</b>	<i>Enterprise Structure → Definition → Logistic Execution → Maintain Transportation Planning Point</i>
-----------------	--

Picture : Path to Maintain Transportation Planning

TPPt	Description	CoCd
<input type="checkbox"/> PA10	PPIC Tansport Plannn	PA10
<input type="checkbox"/> PP10	PPELEC Tansport Plan	PP10

Point  
Maintain Transportation Planning Point

Picture :

### 4. Define Warehouse Number

Here we will configure warehouses for our virtual car business.

For our car business we will use the below types of Warehouses

--> **EWM Warehouse**

--> **WM Warehouse With SU Active**

--> **WM Warehouse with Mandatory HU Active**

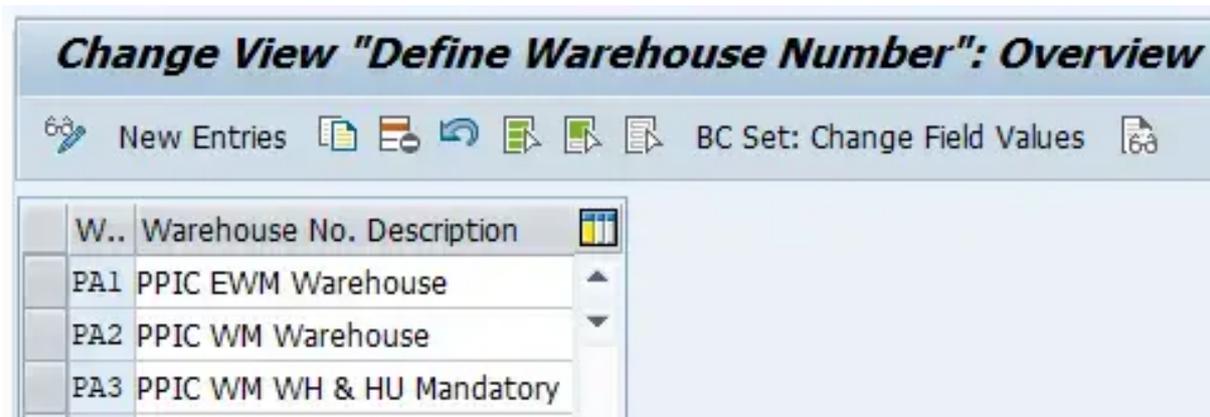
We have defined below three SLOCs for these warehouses

- PP20-ECC WM SLOC

- PP22-ECC WM HU Mandatory
- PP1D-EWM WH Receive on Dock
- PP1S- EWM Available for Sale

Let's define the warehouse now

**SPRO → Enterprise Structure → Definition → Logistics Execution → Define, copy, delete, check warehouse number**

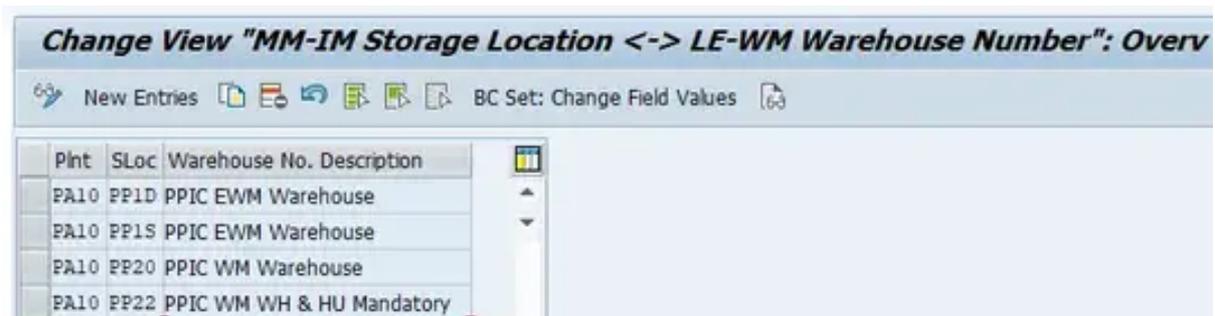


**Picture: Define Warehouse Number**

## 5. Assign Warehouse Number

We will assign these warehouses to the respective plant & storage locations as shown below

**SPRO → Enterprise Structure → Assignment → Logistics Execution → Assign Warehouse Number to Plant and Storage Location**



**Picture: Assign Warehouse Number to Plant and Storage Location**

Logistics Execution Organization structure configuration ends here.

