

SAP MM - MASTER DATA

http://www.tutorialspoint.com/sap_mm/sap_mm_master_data.htm

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SAP R/3 works on real time data that is there is no time lag between data entry and data availability. The important thing while creating any data is to maintain data integrity. SAP R/3 data is categorized into two:

- **Master data** - Data that is created centrally and it is valid for all applications. It remains constant over the time but we need to update it on regular basis. For Example: Vendor is a type of master data that is used for creating purchase orders or contracts.
- **Transactional data** - Data that is associated with processing of business transaction is Transactional data.

SAP Master Data is of following two types:

- Material Master Data
- Vendor Master Data

Material Master Data

The key points about material master are as follows:

- This is the enterprise main source of material specific data. This data will include information on the materials that a company can procure, or produce, or store or sell.
- Since there are different departments in an enterprise and each department works on some specific material. So they will enter different information regarding their material. So each user department has its own view of material master record. So, the data screens that are used to create material master can be divided into two categories:
 - Main Data:** This will include basic data *baseunitofmeasure, weight, purchasing data overtoleranceandundertolerance, accounting data standardprice, movingprice.*
 - Additional Data:** This will include additional information like short description about material, currency etc.

Material master has the four characteristics which will be discussing one by one in below context.

Material Types

Materials with some common attributes are grouped together and they are assigned to a material type. This will differentiate materials and allow organization to manage different materials in systematic manner in accordance to company's requirement. For example: Raw Material, Finished Products are some of the material types. Material type can be created by following the below steps.

Path to create material type:

IMG >= Logistics General >= Material Master >= Basic Settings >= Material Types >= Define Attributes of Material Types

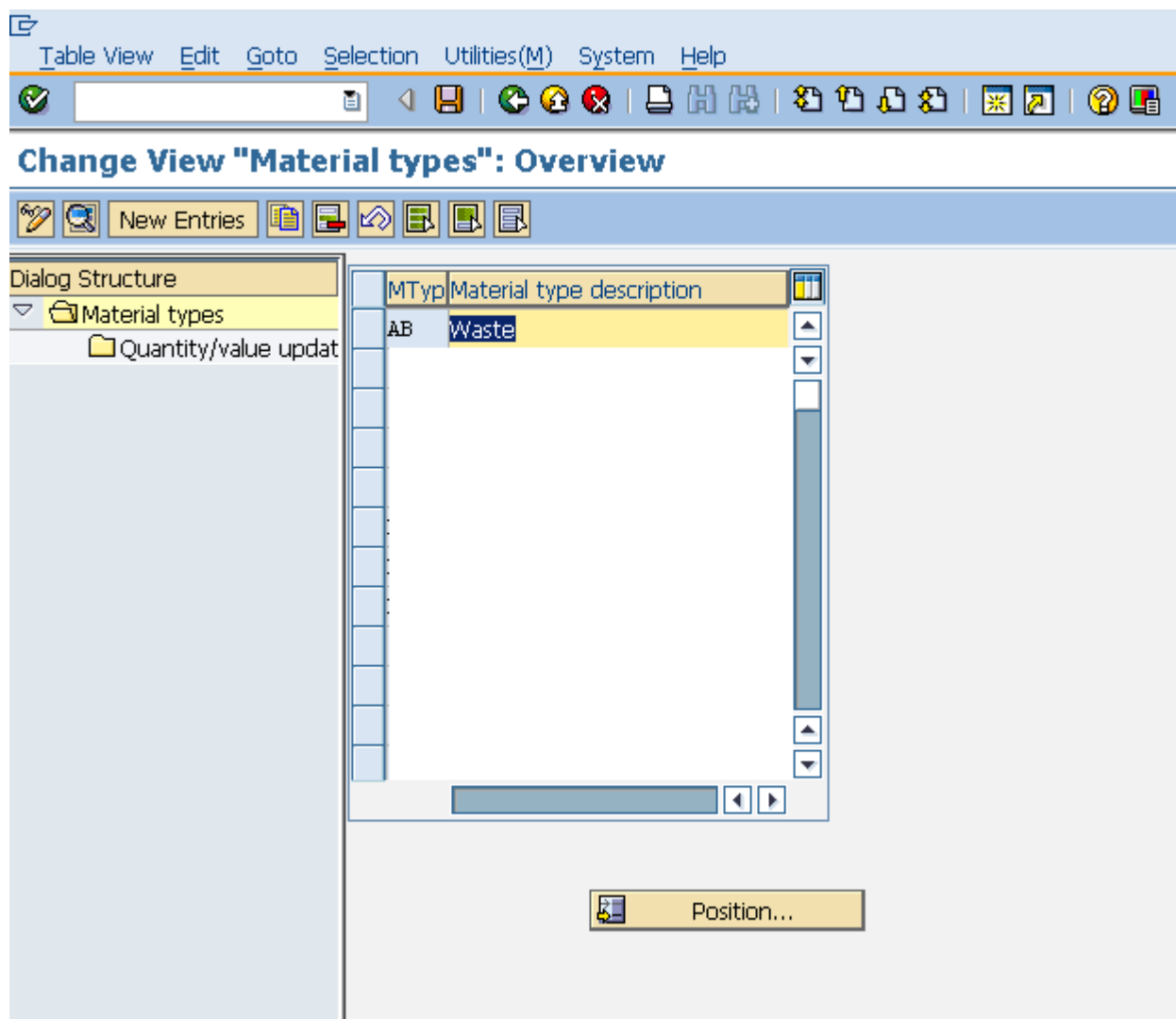
TCode: OMS2

On display IMG screen select Define Attributes of Material Types execute icon by following the above path.

The screenshot shows the SAP IMG (Implementation Guide) interface. The title bar reads "Implementation Guide" and the menu bar includes "Edit", "Goto", "Additional Information", "Utilities(M)", "System", and "Help". The main content area is titled "Display IMG" and contains several buttons: "Existing BC Sets", "BC Sets for Activity", "Activated BC Sets for Activity", "Release Notes", "Change Log", and "Where Else Used". Below the buttons is a "Structure" pane showing a tree view with the following items: "Enterprise Controlling", "Real Estate", and "Flexible Real Estate Management (RF-EM)".

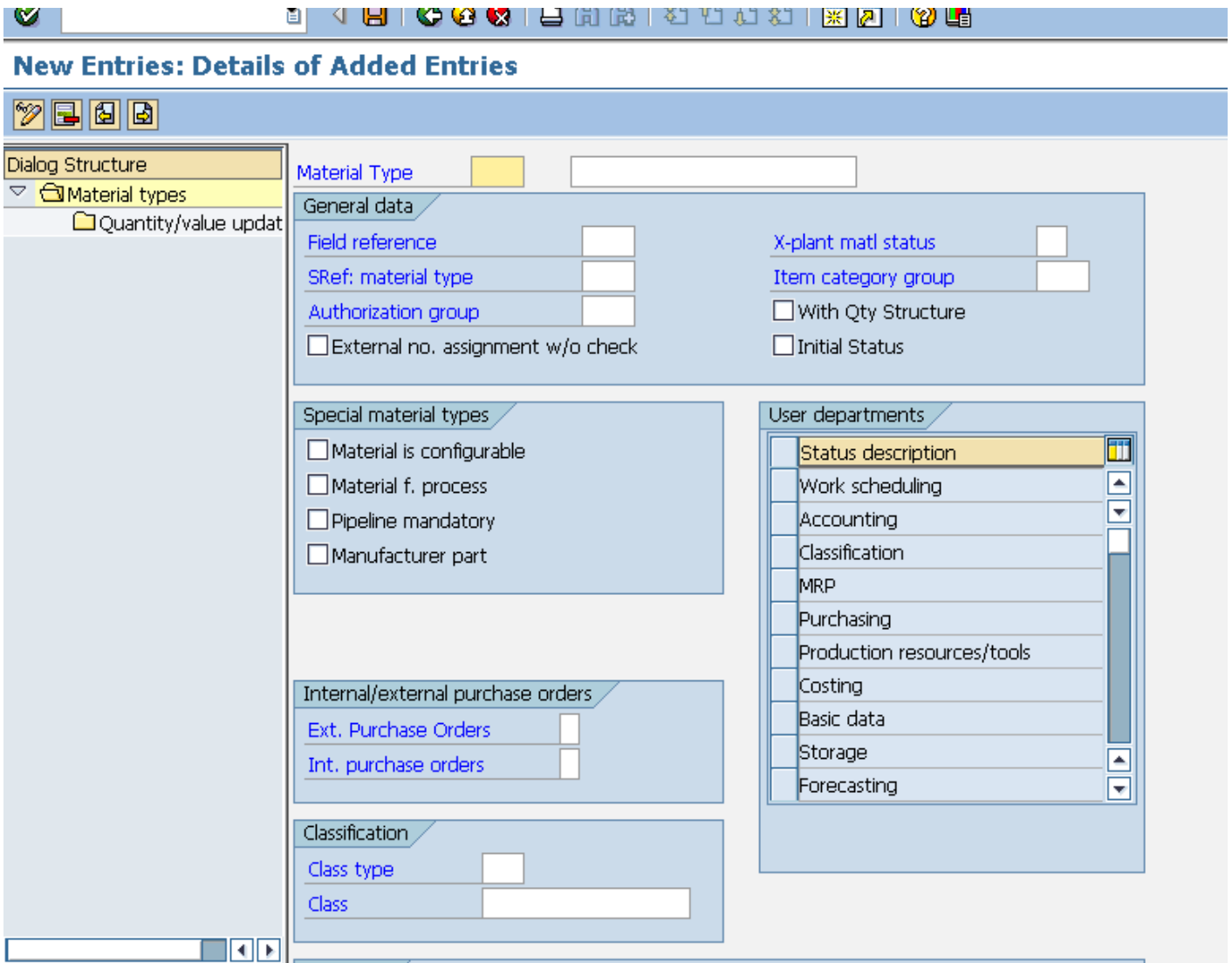


Select New Entries icon.



Fill in the required information like name of material type and description. Click on save. A new material type will be created.





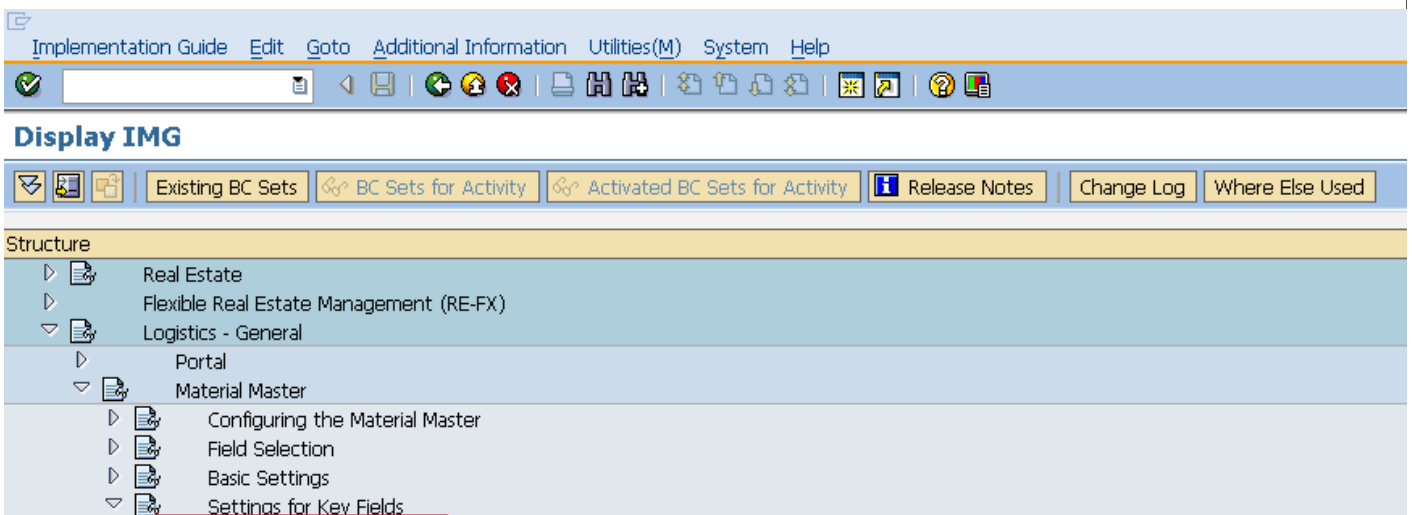
Material Groups

Material group is a wider range of material type. Materials with some common attributes are taken together and they are assigned to material group. For Example: Suppose we have some materials which need packaging, so there material type can be electrical or food products but we can group these material types and put them in packaged material group. Material Group can be created by following below steps:

Path to Create Material Group:

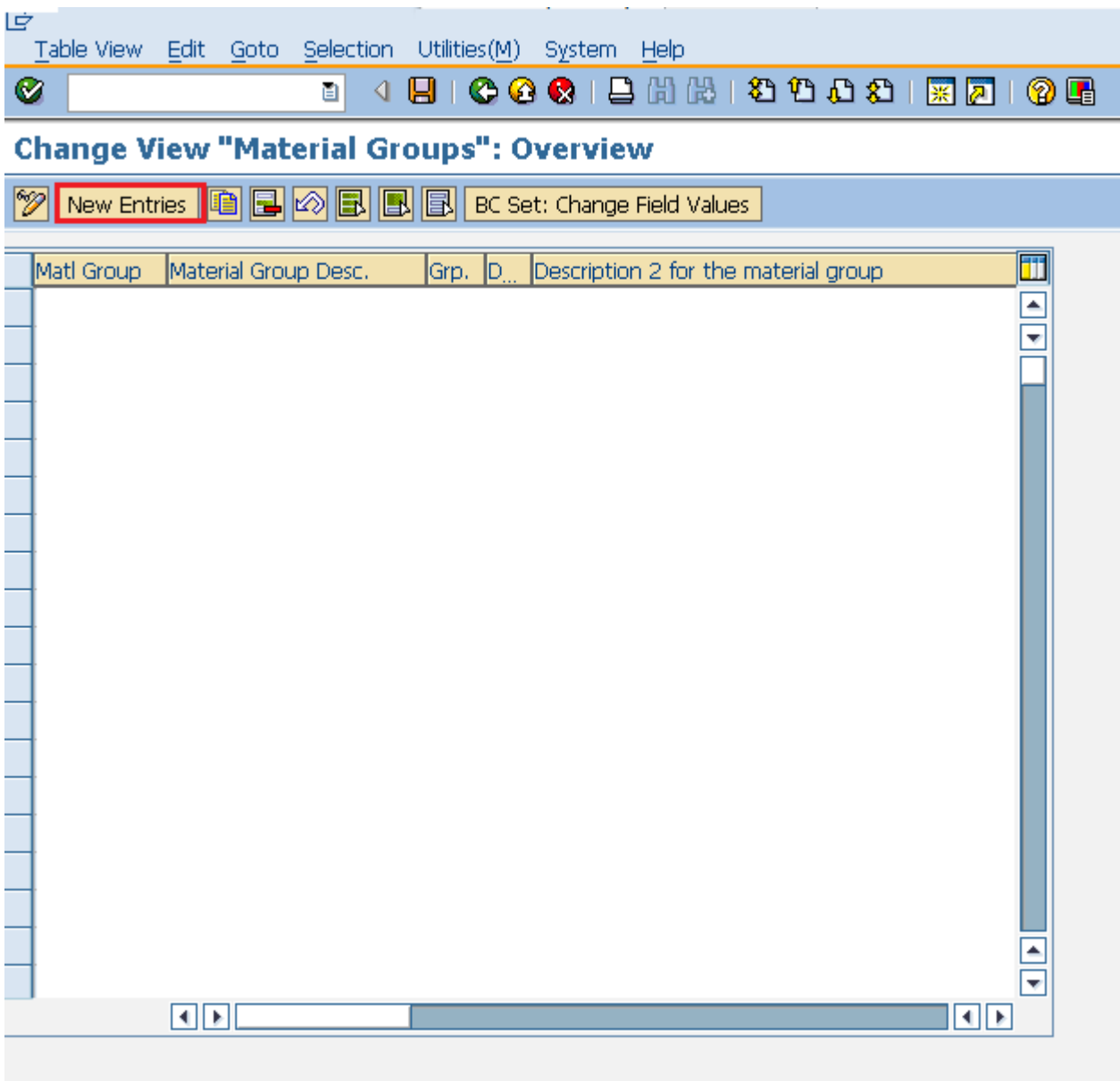
IMG => Logistic General => Material Master => Settings for Key Fields => Define Material Groups
TCode: OMSF

On display IMG screen select Define Material Groups execute icon by following the above path.

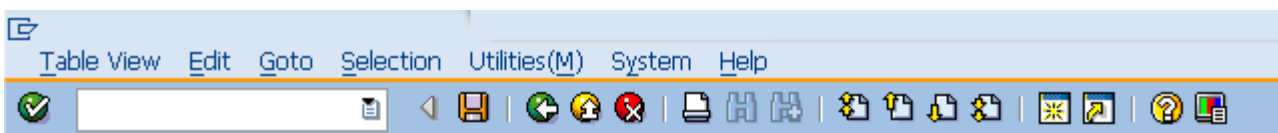


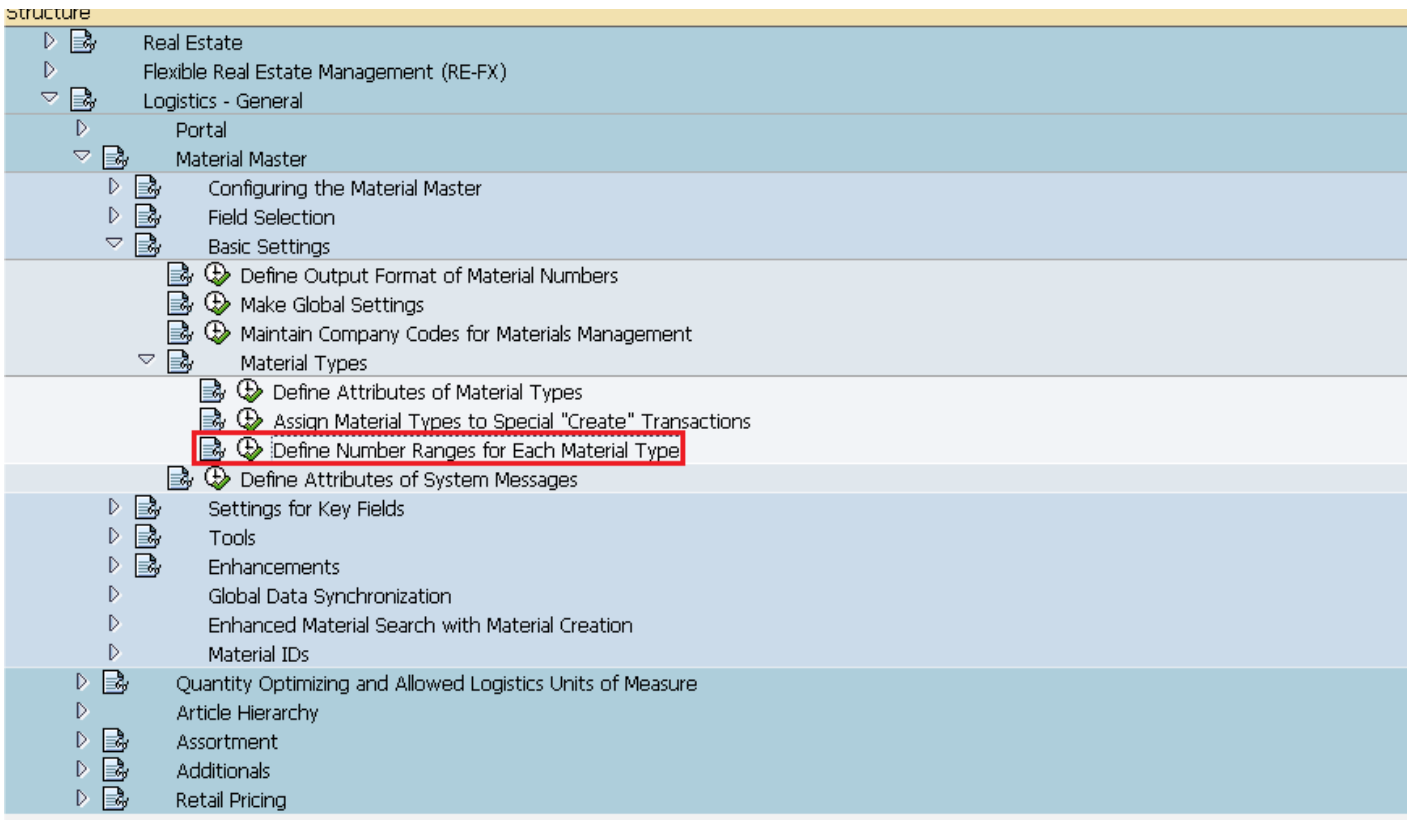


Select New Entries Icon.

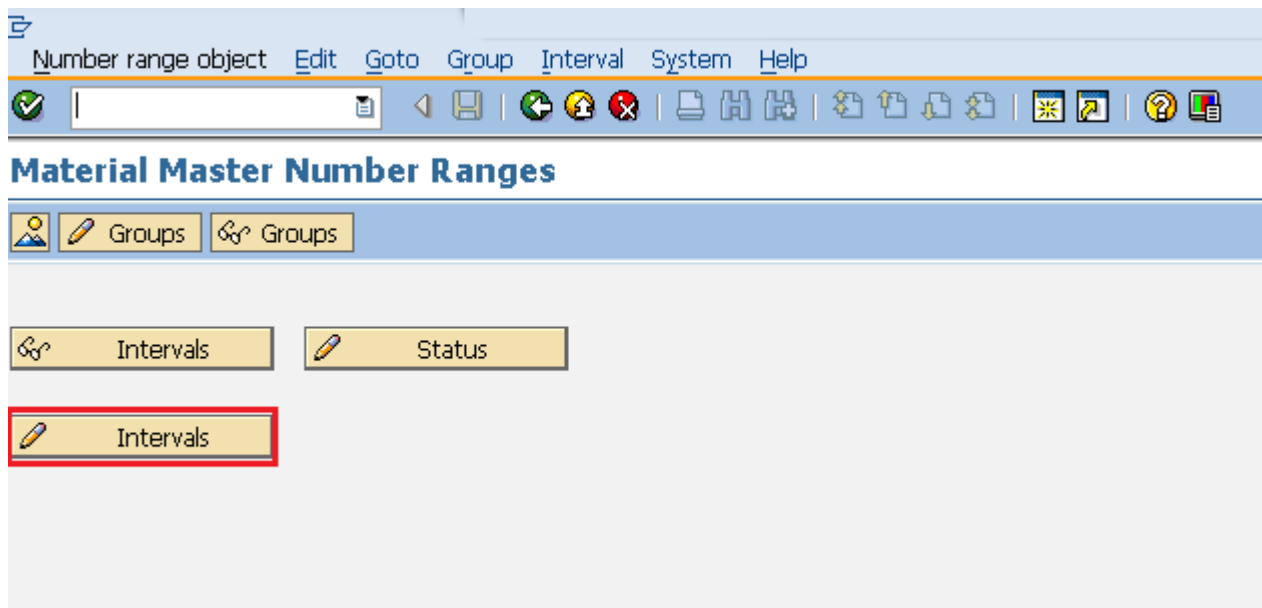


Enter the name of material group along with its description. Click on Save. A new material group will be created.

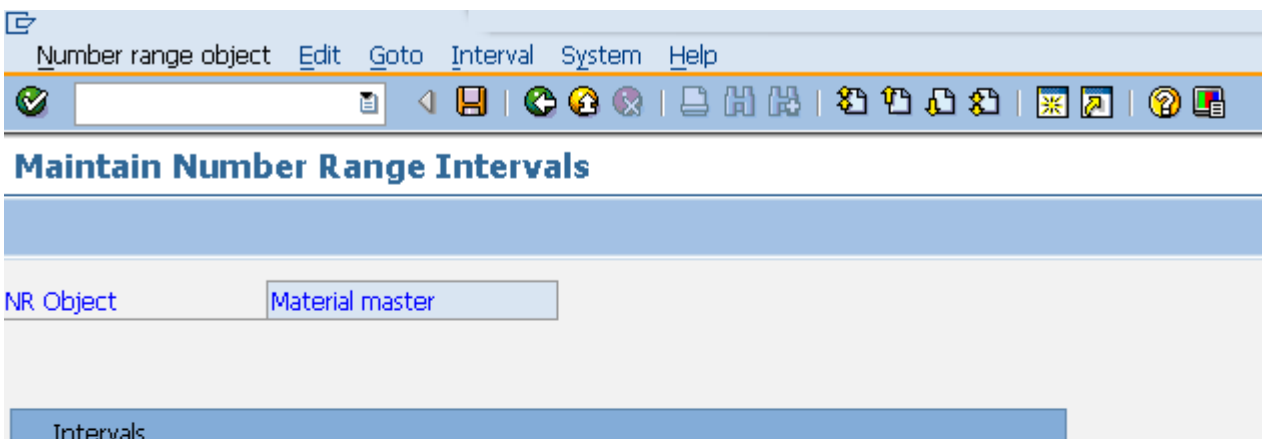




Select Intervals Icon.



We can define number range here and EXT externaltab, if it is checked then external number assignment can be done in that material. Click on save. Number Range is now defined for the material.



From number	To number	Current number	Ext
00000000000000000001	000000000099999999	10	<input type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input checked="" type="checkbox"/>

Assignment of Number Range:

After defining we need to assign it to material group. Number range can be assigned by following the below steps.

In the same screen as shown above select Groups tab.

Number range object Edit Goto Group Interval System Help

Material Master Number Ranges

Groups Groups

Intervals Status

Intervals

For a particular material group we can assign number range here. Click on save. Number range is now assigned to material group.

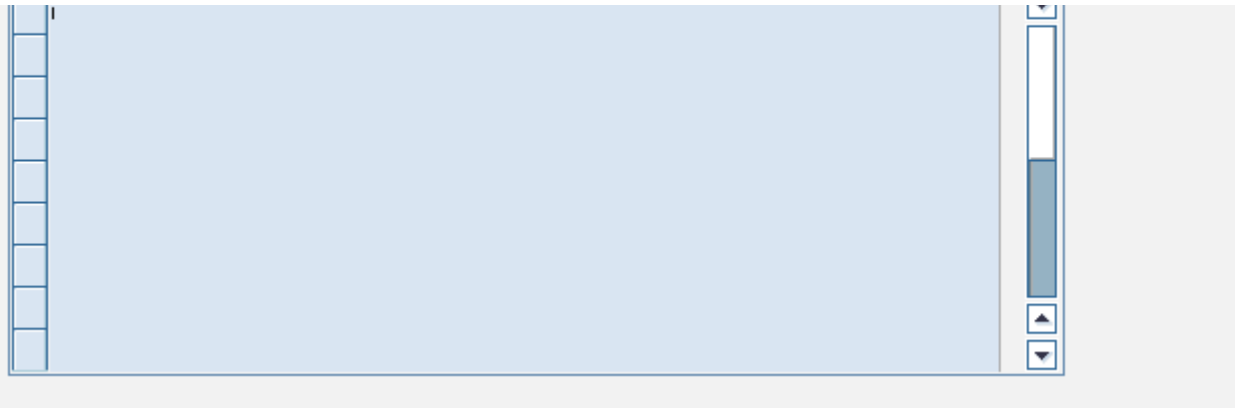
Number range object Edit Goto Group Interval System Help

Maintain Number Range Intervals

NR Object Material master

Group..... Multi-Purpose Material

From number	To number	Current number	Ext
0000000000110000000	000000000199999999	110013629	<input type="checkbox"/>



Material Master Creation

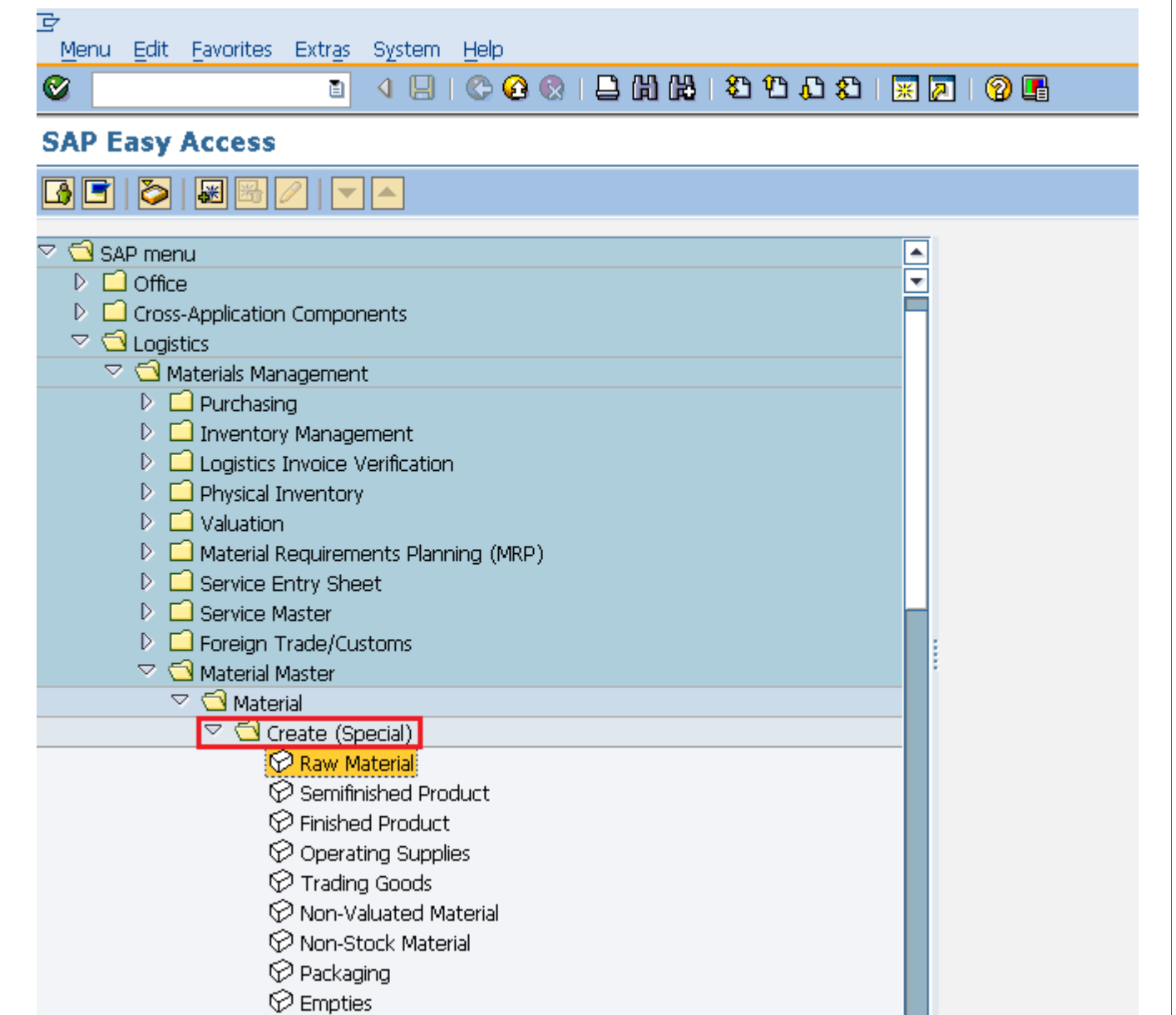
Material master contains all materials that a company procures produces or sells. Material Master is a central data that is available at all the levels. Material can be created by following the below steps:

Path to create Material Master:

Logistics => Materials Management => Material Master => Material => Create Material
TCode: MM01

Note: For any create transaction we use 01, for edit 02, for display 03 as suffix.

On SAP Menu screen select create icon by following the above path.



Service(s)
Configurable Material

Fill in all required details like material number *ifexternalnumberassignment*, material type, industry sector.

The screenshot shows the 'Create Material (Initial Screen)' in SAP. The menu bar includes 'Material', 'Edit', 'Goto', 'Defaults', 'System', and 'Help'. Below the menu is a toolbar with various icons. The main area has three tabs: 'Select View(s)', 'Org. Levels', and 'Data'. The 'Select View(s)' tab is active. The form contains the following fields:

- Material:
- Industry sector:
- Material Type:
- Change Number:
- Copy from...:

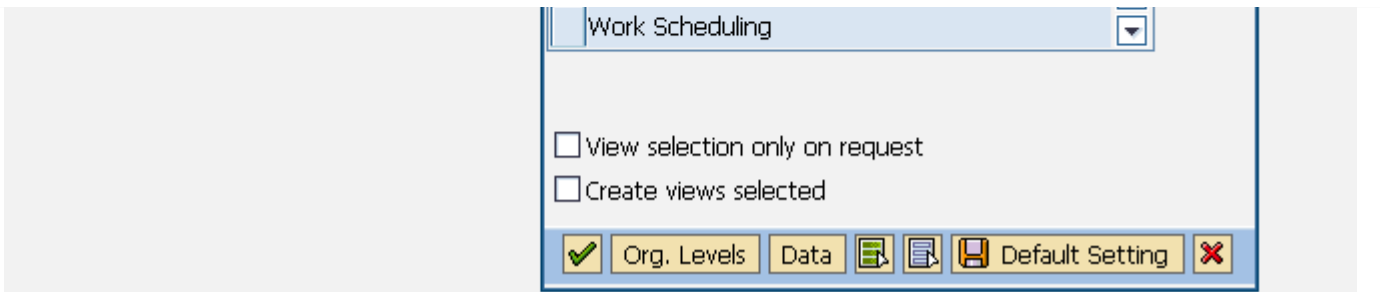
Select the views you want to maintain for your material.

The screenshot shows the 'Create Material (Initial Screen)' in SAP with a 'View Selection' dialog box open. The menu bar and toolbar are the same as in the previous screenshot. The main area has the same tabs: 'Select View(s)', 'Org. Levels', and 'Data'. The 'Select View(s)' tab is active. The form contains the following fields:

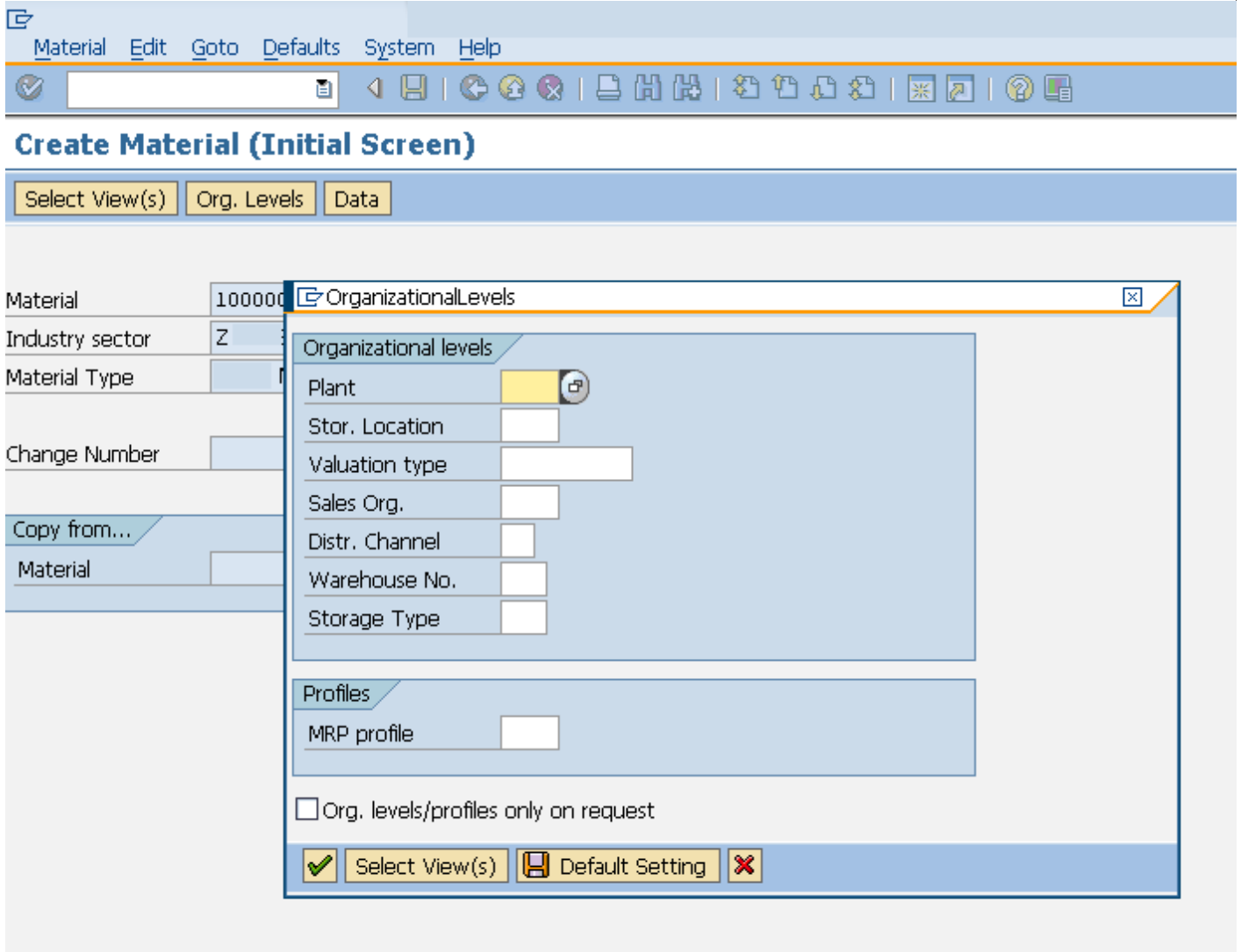
- Material:
- Industry sector:
- Material Type:
- Change Number:
- Copy from...:

The 'View Selection' dialog box is open, showing a list of views to be selected. The list includes:

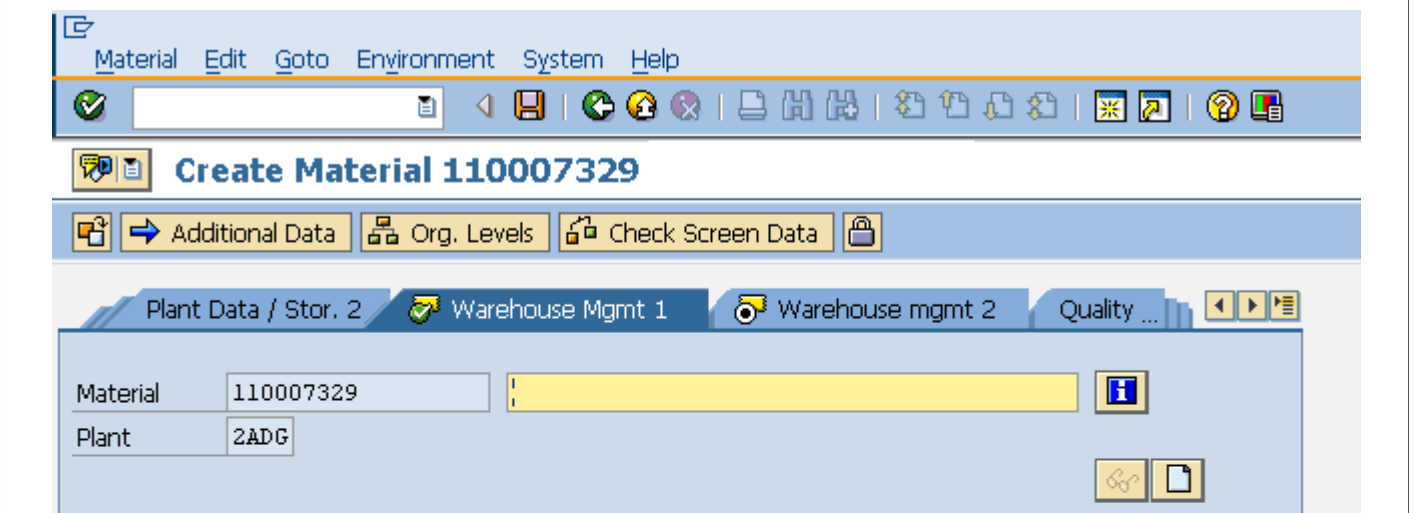
- View
- Basic Data 1
- Basic Data 2
- Classification
- Sales: Sales Org. Data 1
- Sales: Sales Org. Data 2
- Sales: General/Plant Data
- Foreign Trade: Export
- Sales and Distribution Text
- Purchasing
- Foreign Trade: Import
- Purchase Order Text
- MRP 1
- MRP 2
- MRP 3
- MRP 4
- APO Plant Data



Enter name of plant and storage location.



Enter the required information in your material views like unit of measure, currency, standard price, moving price etc. Click on save. A new material will be created.



General data		
Base Unit of Measure	EA	Haz. material number
Unit of issue		Gross Weight
		Volume
		LB
		FT3
		/
		<input type="checkbox"/> Appr. batch rec. req.
<input checked="" type="checkbox"/> Batch management		

Vendor Master Data

The key points about vendor master are as follows:

- This is the enterprise main source of vendor specific data. This data will include information on vendors from which a company can procure or it can sell.
- Vendor Master Record will contain information like vendor's name, address.
- Data in vendor master record is divided into three categories:
 - General Data:** General data is maintained at client level and it is valid for all organizational levels.
 - Accounting Data:** Accounting data is maintained at company level and it is valid for all plants belonging to that company.
 - Purchasing Data:** Purchasing data is maintained at purchasing organization level.

Vendor master has the three characteristics which will be discussing one by one in below context.

Vendor Account Group

Vendors are categorized according to requirements and some of the vendors having similar characteristics are grouped together and placed in one category. For Example: All local vendors can be placed under one account group. Vendor Account group can be created by following the below steps.

Path to create Vendor Account Group:

IMG => Logistic General => Business Partner => Vendors => Control => Define Account group and field selection *vendor*

TCode: OBD3

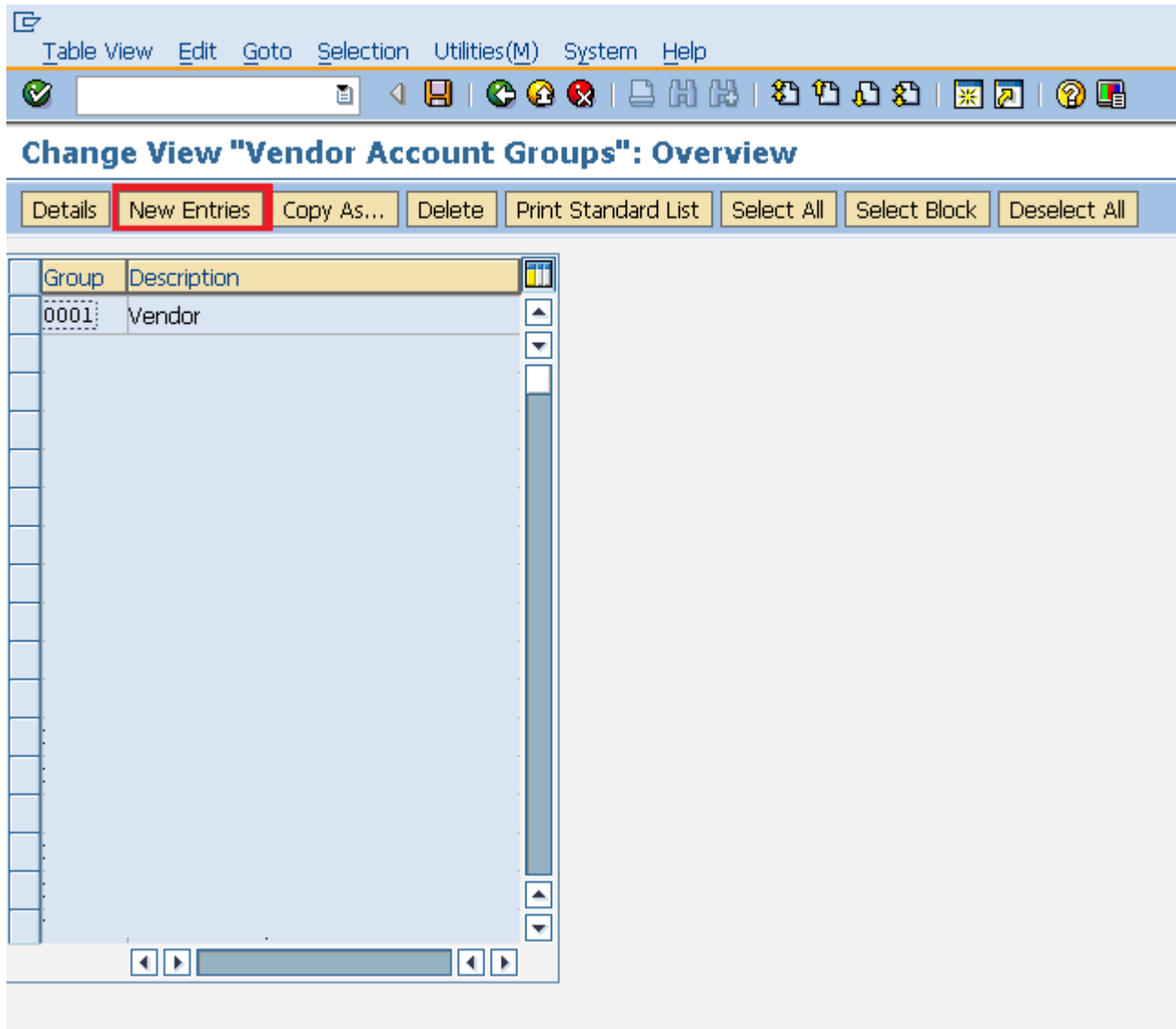
On display IMG screen select Define Account group and field selection *vendor* execute icon by following the above path.

The screenshot shows the SAP IMG (Implementation Guide) interface. At the top, there is a menu bar with options: Implementation Guide, Edit, Goto, Additional Information, Utilities(M), System, and Help. Below the menu bar is a toolbar with various icons. The main area is titled "Display IMG" and contains several tabs: Existing BC Sets, BC Sets for Activity, Activated BC Sets for Activity, Release Notes, Change Log, and Where Else Used. Below the tabs is a tree view titled "Structure" showing the following hierarchy:

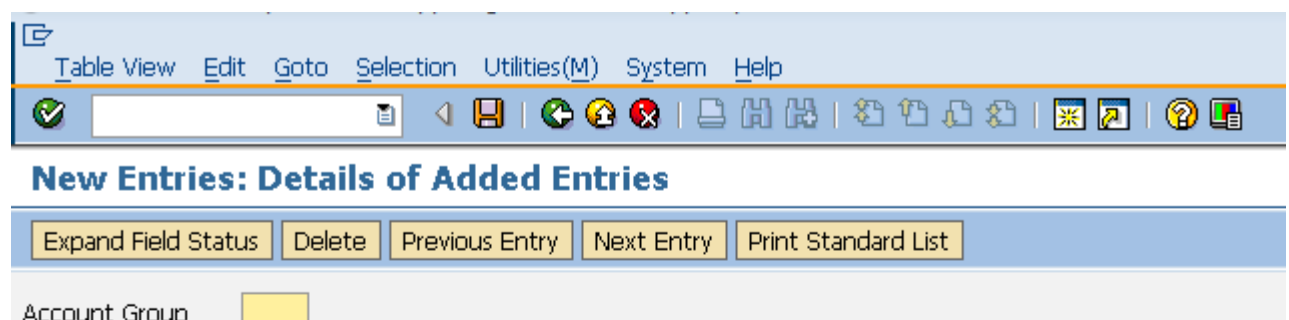
- Investment Management
- Enterprise Controlling
- Real Estate
- Flexible Real Estate Management (RE-FX)
- Logistics - General
 - Portal
 - Material Master
 - Quantity Optimizing and Allowed Logistics Units of Measure
 - Article Hierarchy
 - Assortment
 - Additional
 - Retail Pricing
 - Price Planning



Select New Entries icon.



Fill in all necessary details like name of account group, general data, and field status. Click on save. A new Vendor Account Group will be created.



General Data	
Name	<input type="text"/>
Number Range	<input type="checkbox"/>
One-Time Account	<input type="checkbox"/>
Field Status	
General Data	
Company Code Data	
Purchasing Data	
Purchasing Sub-Range	
Purchasing Plant	
Data Retent. Levels: Purchasing	
<input type="checkbox"/> Vendor sub-range relevant	
<input type="checkbox"/> Plant level relevant	
Default Values	
<input type="checkbox"/> Do not transfer any data	
PartnerDetermProced.	
Partner schema, purch. org.	<input type="checkbox"/>
Partner schema, sub-range	<input type="checkbox"/>
Partner schema: plant level	<input type="checkbox"/>

Number Range

When we create vendor master record every vendor is recognized by a number, that number will be unique and known as vendor number. As discussed in material master, in similar way we have external as well as internal number assignment for vendor master.

Define Number Range:

Number range can be defined by following the below steps:

Path to create Number Range:

IMG => Logistic General => Business Partner => Vendors => Control => Define Number Range for Vendor master record

TCode: XDN1

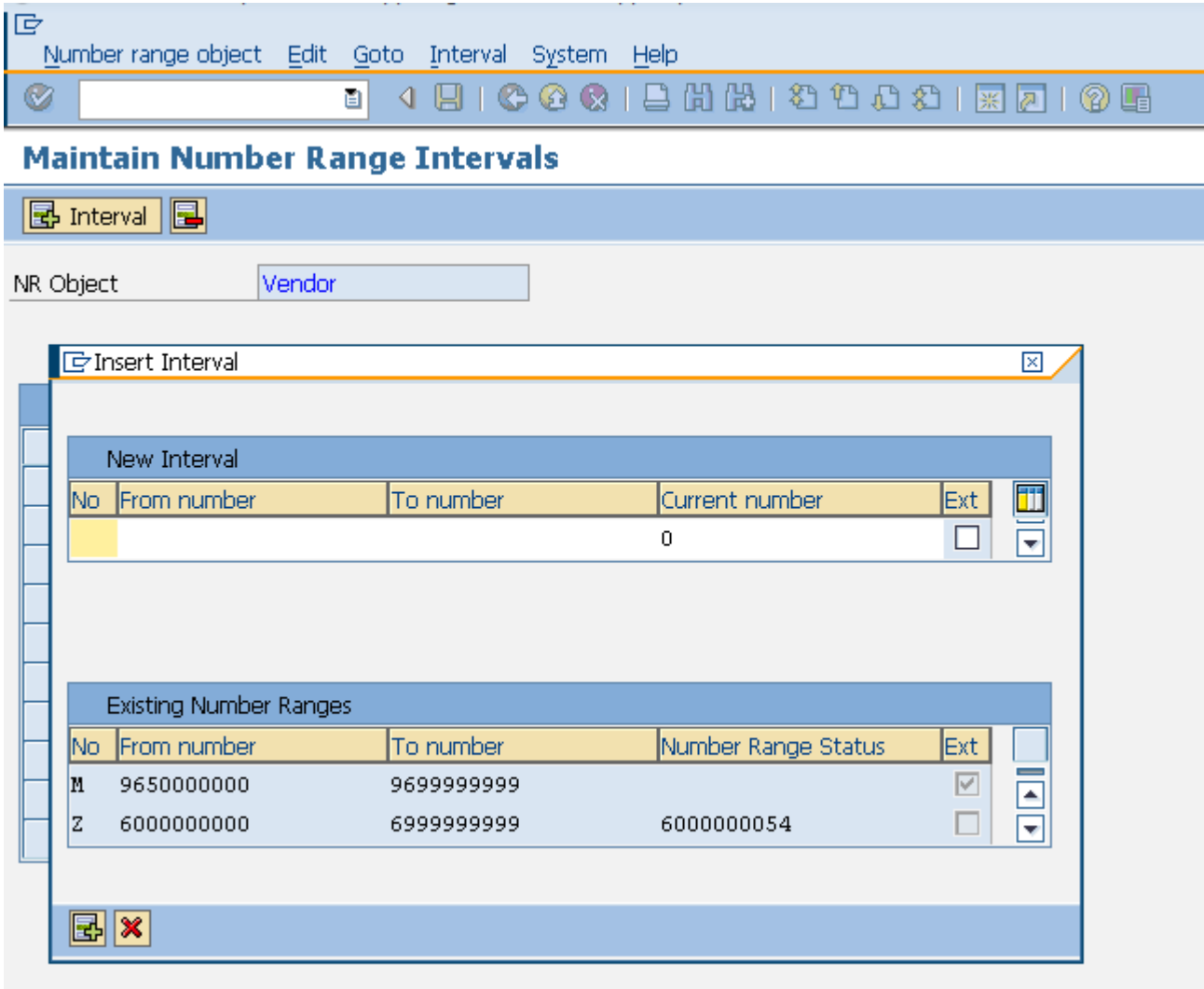
On display IMG screen select Define Number Range for Vendor master record execute icon by following the above path.

The screenshot shows the SAP Implementation Guide (IMG) interface. The top menu bar includes 'Implementation Guide', 'Edit', 'Goto', 'Additional Information', 'Utilities(M)', 'System', and 'Help'. Below the menu is a toolbar with various icons. The main area is titled 'Display IMG' and contains a navigation pane on the left with the following structure:

- Article Hierarchy
- Assortment
- Additional
- Retail Pricing
- Price Planning
- Demand Management Integration
- Business Partner
 - Analyze Partner Relationships
 - Identify Origin of Partner Data
 - Agreement with Other Applications re Partners
 - Work Out Quantity Framework for Partners
 - Customers
 - Vendors
 - Control
 - Define Account Groups and Field Selection (Vendor)

At the top of the main area, there are buttons for 'Existing BC Sets', 'BC Sets for Activity', 'Activated BC Sets for Activity', 'Release Notes', 'Change Log', and 'Where Else Used'.

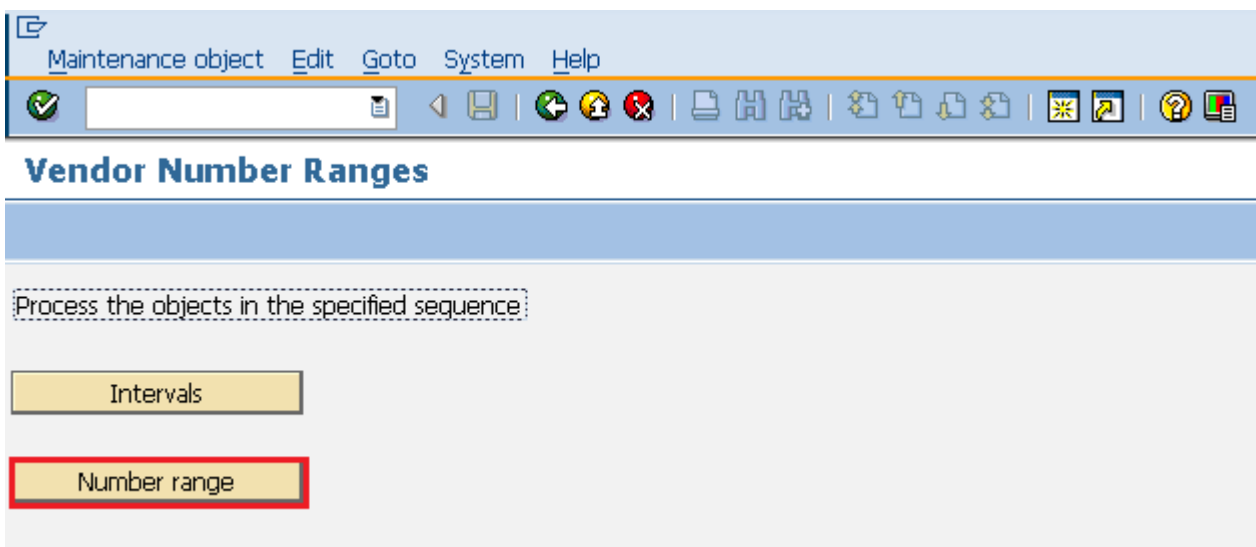
We can define number range here and EXT externaltab, if it is checked then external number assignment can be done in that vendor. Click on save. A new Number Range will be created.



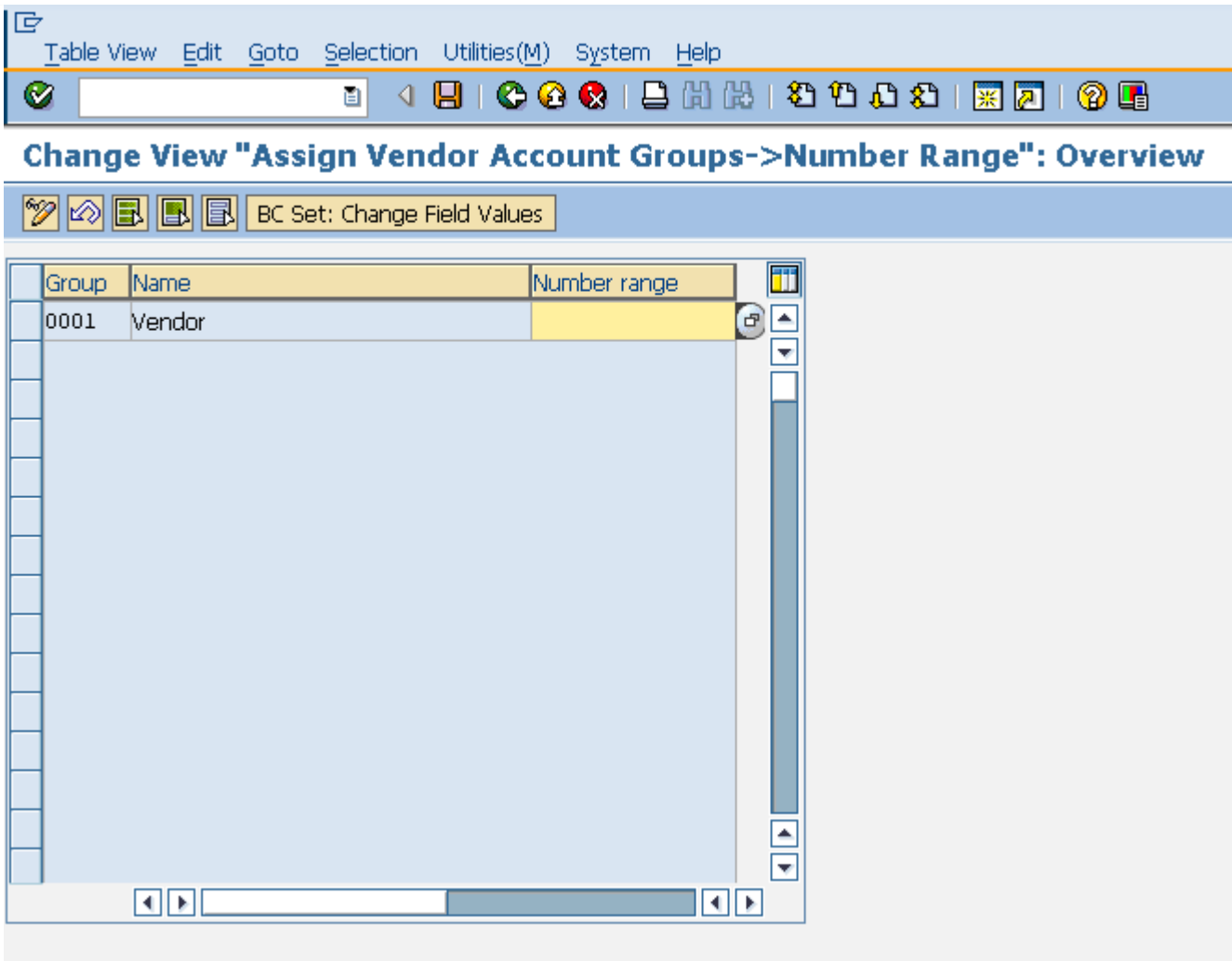
Assignment of Number Range

After defining we need to assign it to vendor group. Number range can be assigned by following the below steps.

On the same screen as shown above select Number Range tab.



For a particular vendor group assign number range here. Click on save. Number range is now assigned to vendor group.



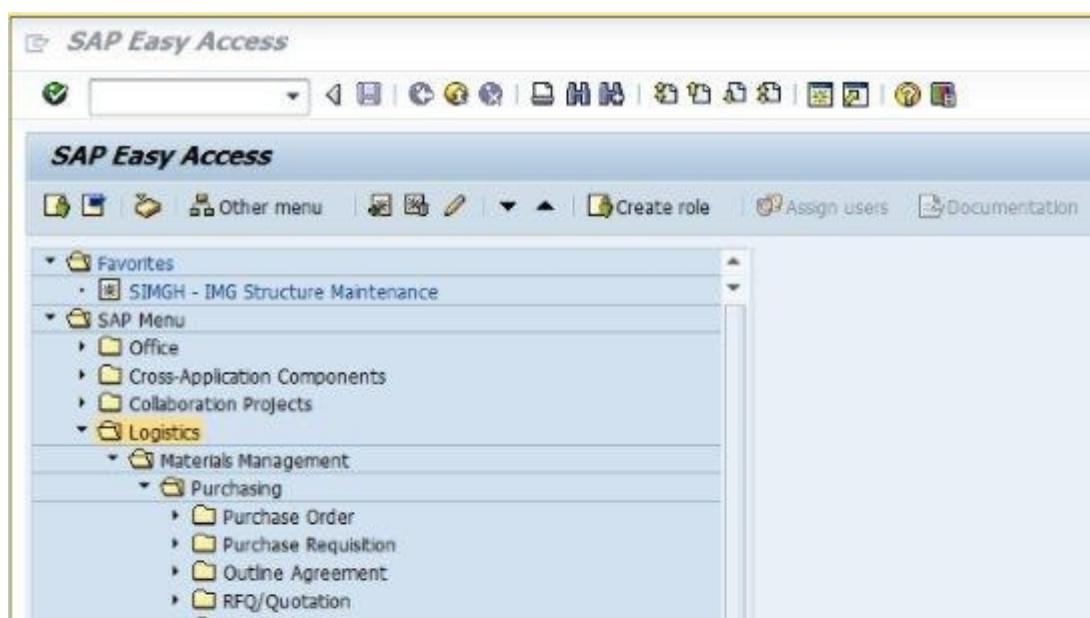
Creation of Vendor Master

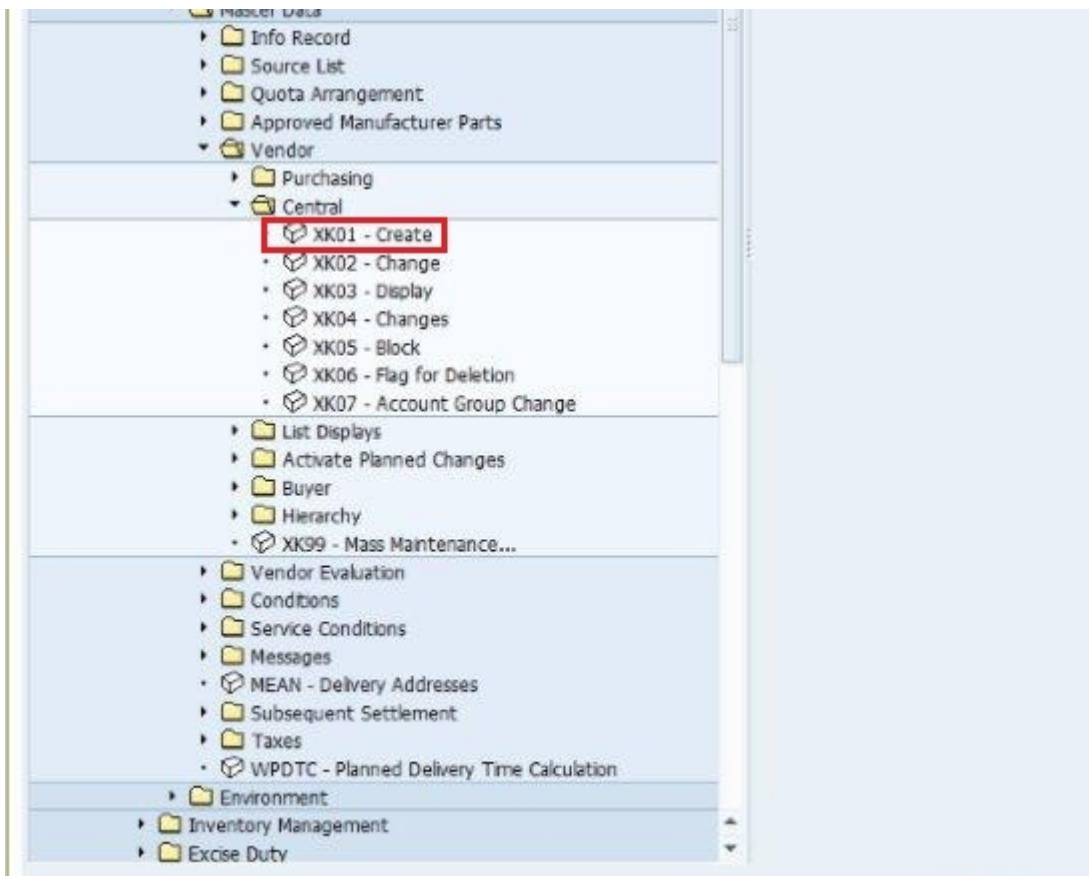
Vendor Mater contains list of vendors from which a company can procure or it can sell. Vendor Master can be created by following the below steps:-

Path to create Vendor Master:

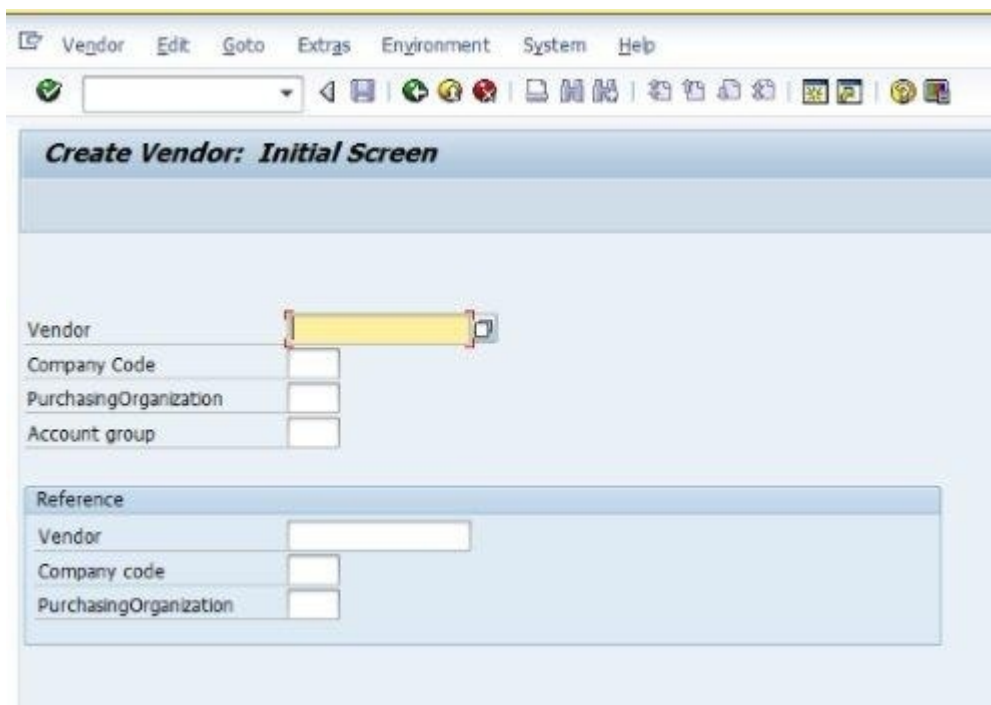
SAP Menu => Logistics => Material Management => Purchasing => Master Data => Vendor => Central => Create
TCode: XK01

On SAP Menu screen select create for central vendor data execute icon by following the above path.

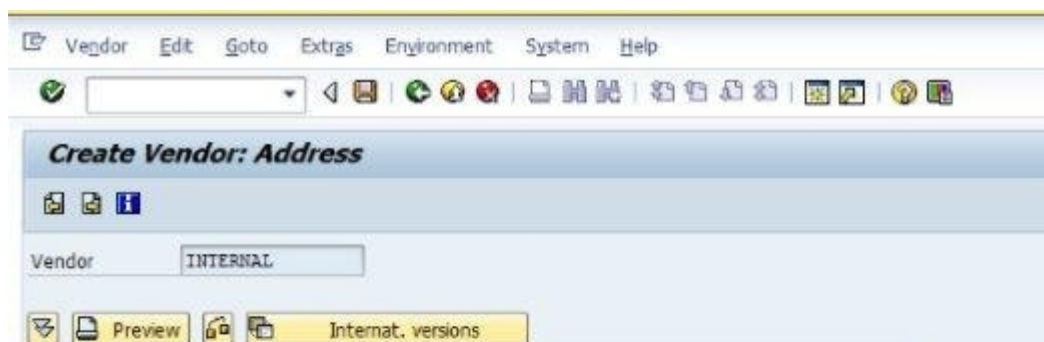




Fill in all required details like company code, purchasing org, vendor no. *If external number assignment.*



Fill in all details of vendor's address like street name, postal code, country.



Name

Title: Company

Name: XYZ limited

Search Terms

Search term 1/2: XYZ

Street Address

Street/House number: Hosur Road

Postal Code/City: 560100 Bangalore

Country: IN Region: 10

PO Box Address

PO Box:

Postal code:

Communication

Language: English

Telephone: 09123976585 Extension:

Fax: Extension:

E-Mail: xyz@mail.com

Data line:

Telebox:

Fill in the necessary bank details of vendor.

Vendor Edit Goto Extras Environment System Help

Create Vendor: Payment transactions

Vendor: INTERNAL XYZ limited Bangalore

C...	Bank Key	Bank Account	Acct holder	A.	IBAN	IBANValue	BT...	Refe

Bank Data... Delete Bank Detail IBAN

Payment transactions

Alternative payee:

DME Indicator:

Instruction key:

ISR Number:

Alternative payee in document

Individual spec.

Spec, per reference

Permitted Payee

Fill in the necessary accounting information of the vendor.

Vendor Edit Goto Extras Environment System Help

Create Vendor: Accounting information Accounting

Vendor	INTERNAL	XYZ limited	Bangalore
Company Code	4300	India	
Accounting information			
Recon. account	<input type="text"/>	Sort key	<input type="text"/>
Head office	<input type="text"/>	Subsidy indic.	<input type="text"/>
Authorization	<input type="text"/>	Cash mgmnt group	<input checked="" type="checkbox"/>
Minority indic.	<input type="text"/>	Release group	<input type="text"/>
		Certificatn date	<input type="text"/>
Interest calculation			
Interest indic.	<input type="text"/>	Last key date	<input type="text"/>
Interest freq.	<input type="text"/>	Last interest run	<input type="text"/>
Withholding tax			
W. Tax Code	<input type="text"/>	Exemption number	<input type="text"/>
WH Tax Country	<input type="text"/>	Valid until	<input type="text"/>
Recipient type	<input type="text"/>	Exmpt.authority	<input type="text"/>
Reference data			
Prev.acct no.	<input type="text"/>	Personnel number	<input type="text"/>

Fill in the terms of payment that are defined between company and vendor. Click on save. A new vendor master will be created.

Vendor				INTERNAL	XYZ limited	Bangalore
Company Code				4300	India	
Create Vendor: Payment transactions Accounting						
Payment data						
Payt Terms	<input type="text"/>	Tolerance group	<input type="text"/>			
Chk cashng time	<input type="text"/>	Chk double inv.	<input type="text"/>			
Automatic payment transactions						
Payment methods	<input type="text"/>	Payment block	<input type="text"/>	Free for payment		
Alternat.payee	<input type="text"/>	House Bank	<input type="text"/>			
Individual pmnt	<input type="text"/>	Grouping key	<input type="text"/>			
B/exch.lmit	<input type="text"/>	INR				
Pmt adv. by EDI	<input type="text"/>					
Invoice verification						
Tolerance group	<input type="text"/>					

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