

How to Create a Material Number Range in SAP MM

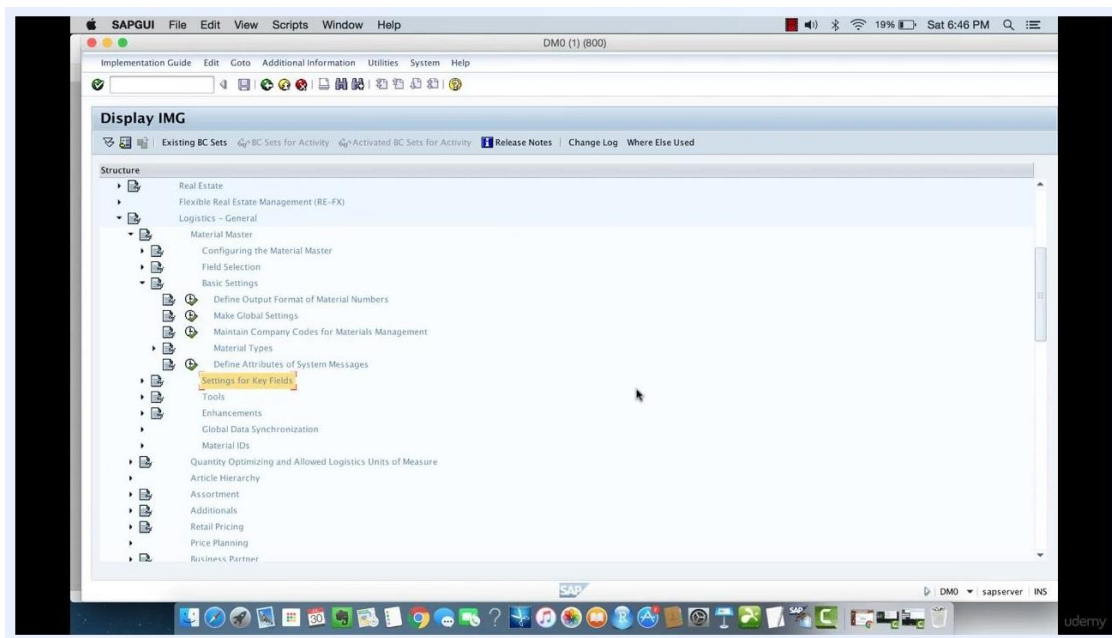
Material number ranges in SAP MM determine how material numbers are assigned to specific material types. This guide walks you through locating, reviewing, editing, deleting, and creating number range intervals for material types using the SAP Implementation Guide (IMG).

Prerequisites

- Access to the SAP GUI with authorization to view and edit the Implementation Guide (IMG).
- Familiarity with the Material Master configuration area in SAP.

Step 1: Access the number range definition in the IMG

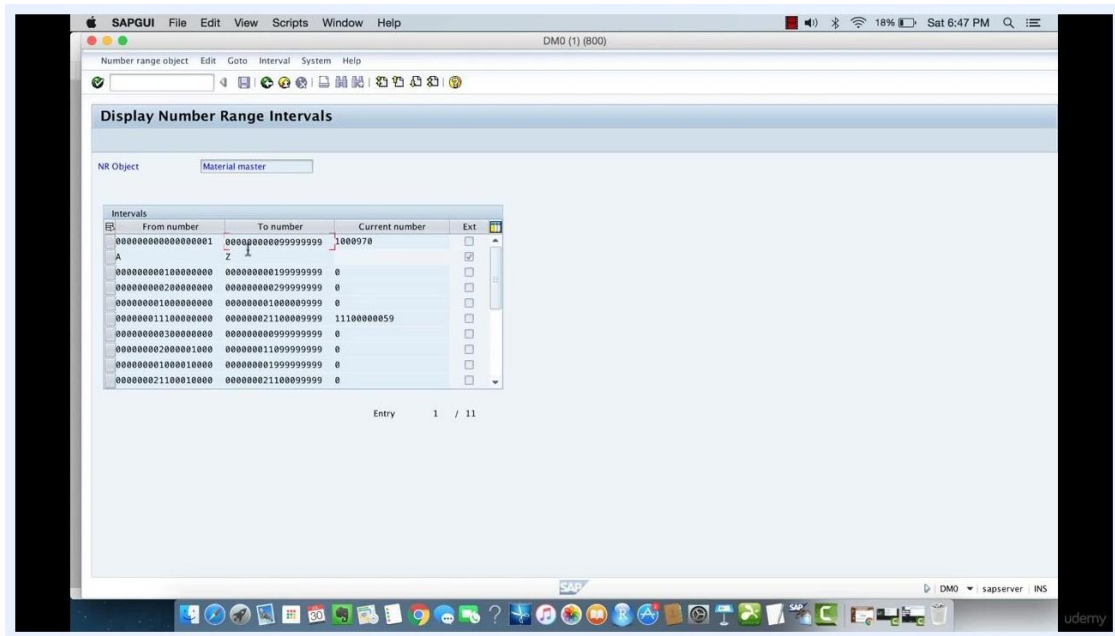
Open the SAP GUI and make sure you are on the **Display IMG** screen. In the navigation tree, expand **Logistics – General**, then **Material Master**, then **Basic Settings**, and locate the **Material Types** section. This is where you configure settings related to material types and their number ranges.



SAP GUI Display IMG screen with Material Master > Basic Settings > Material Types expanded, and the Settings for Key Fields option highlighted.

Step 2: Open the number range configuration

Within the **Material Types** section, find and select **Define Number Ranges for Each Material Type**. This option lets you view and configure the intervals available for material numbers.



Example intervals include a numeric range from 00000000000000000001 to 000000000099999999, and an alphabetic range from A to Z. The **Current number** column shows the latest assigned number within each range.

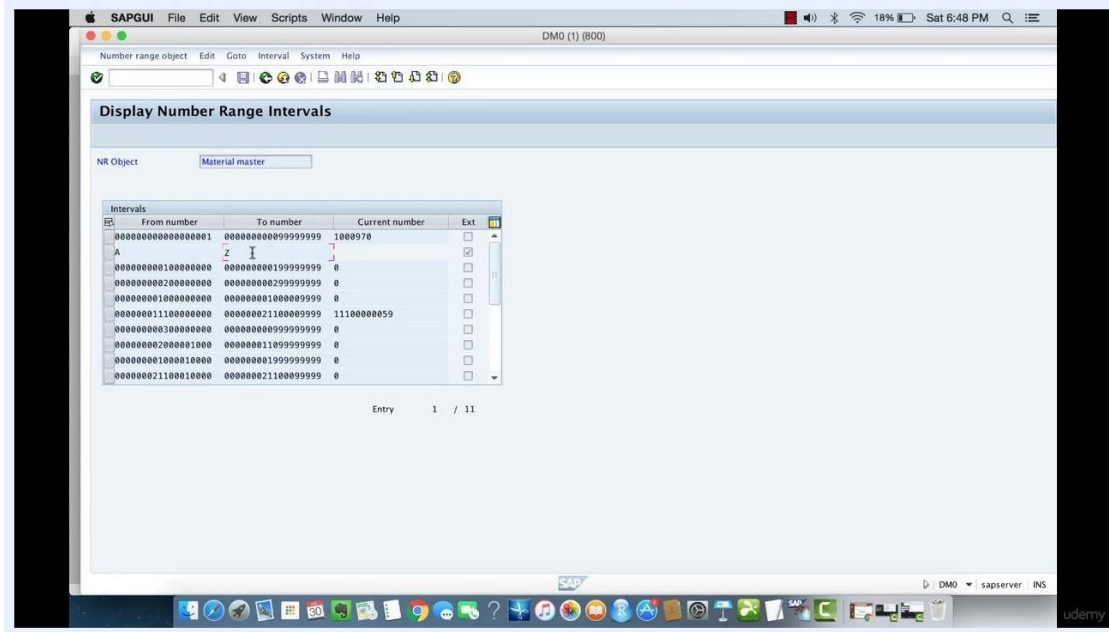
Intervals	From number	To number	Current number	Ext
	00000000000000000001	000000000099999999	1000970	
A		Z		
	000000000100000000	000000000199999999	0	
	000000000200000000	000000000299999999	0	
	000000000100000000	000000000100000999	0	
	000000000110000000	000000000210000999	11100000059	
	000000000300000000	000000000999999999	0	
	000000000200000100	000000000109999999	0	
	000000000100000100	000000000199999999	0	
	000000000210000100	000000000210000999	0	

Display Number Range Intervals screen showing numeric and alphabetic intervals, with columns for From number, To number, Current number, and Ext.

Step 4: Interpret how number ranges link to material types

Any material number that falls within a defined interval is linked to the associated material type. For example, numbers between 00000000000000000001 and 000000000099999999 belong to one material type, while numbers or letters between A and Z belong to another.

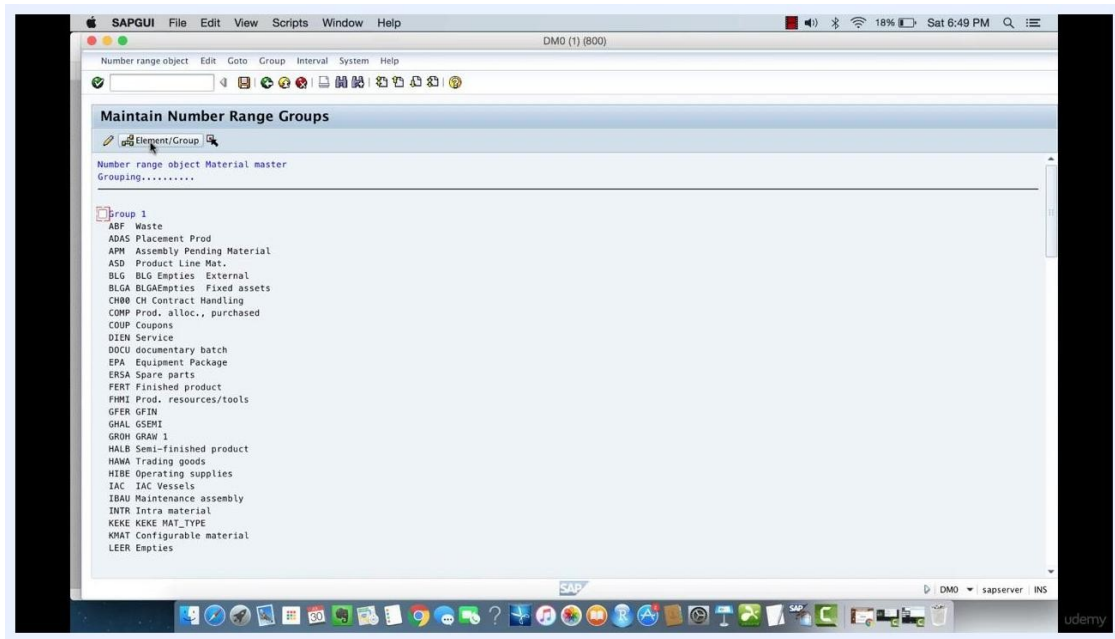
You can attach these number ranges to material types so that selecting a product ID from a given range automatically links it to the correct material type.



Display Number Range Intervals screen focused on the alphabetic interval from A to Z, showing how alphabetic material numbers are handled.

Step 5: Navigate to number range groups

Return to the **Maintain Number Range Groups** screen. Here you see a list of groups and their associated material types, such as ABF Waste, ADAS Placement Prod, and APM Assembly Pending Material. Identify the group and material type you want to modify.

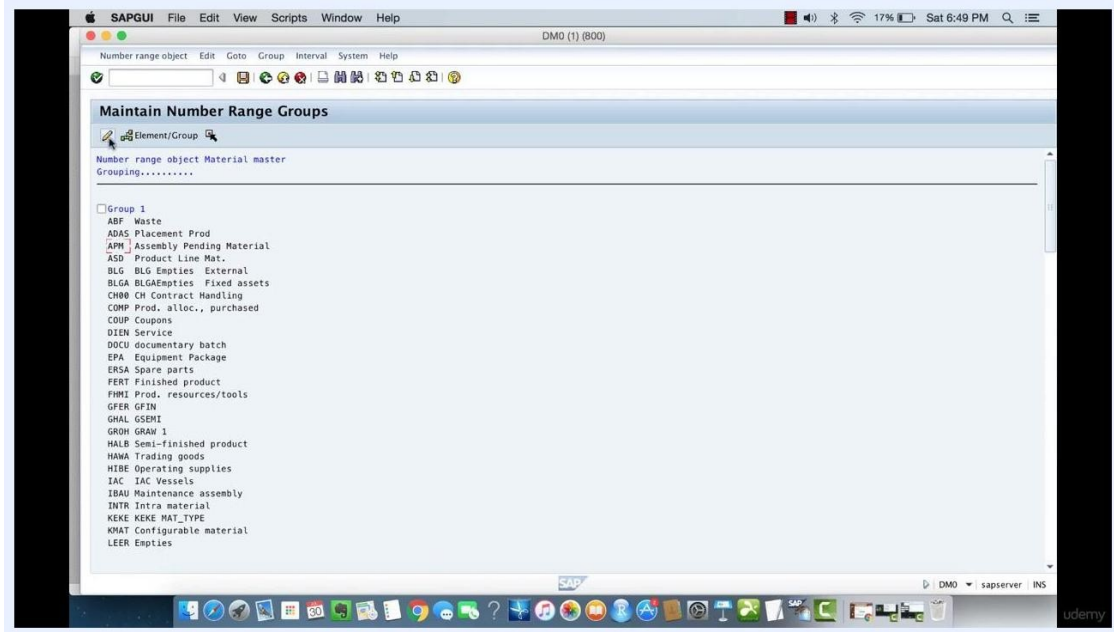


Maintain Number Range Groups screen displaying a list of material type groups such as ABF, ADAS, and APM.

Step 6: Edit a material type's interval range

Select the material type you want to change from the list, then click the **Edit** button (pencil icon) to open its editing interface. The system displays the current number range intervals associated with that material type.

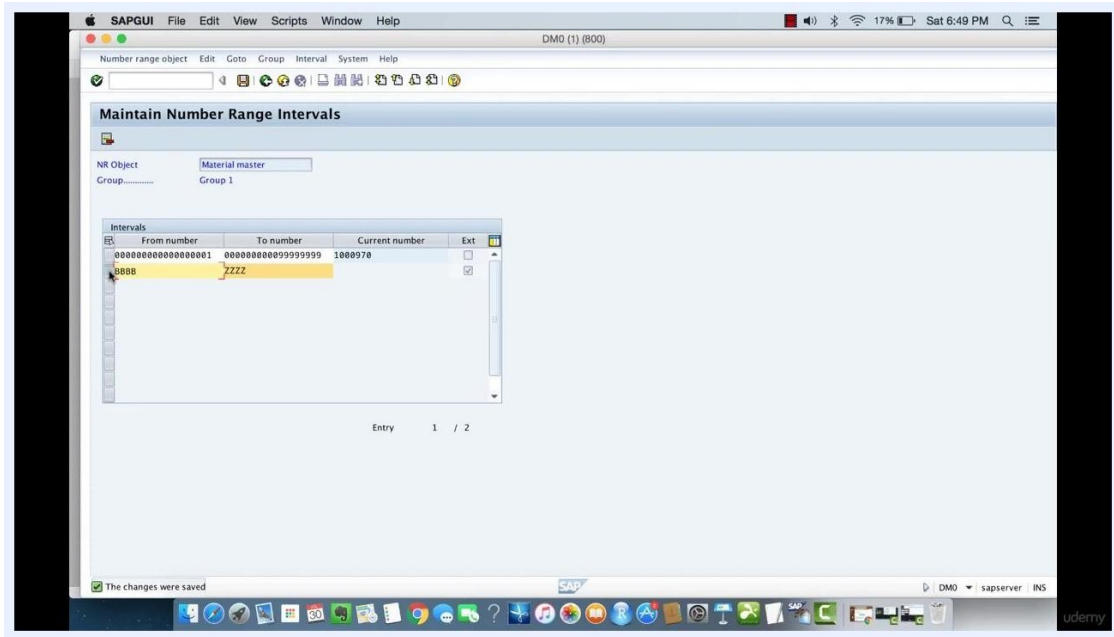
You can now update the interval range—for example, setting **From number** to **B** and **To number** to **Z**. Click the save icon to apply your changes; a confirmation message appears once the changes are saved.



Maintain Number Range Intervals screen with the interval being edited to BBBB-ZZZZ and a save confirmation message at the bottom.

Step 7: Delete a number range interval

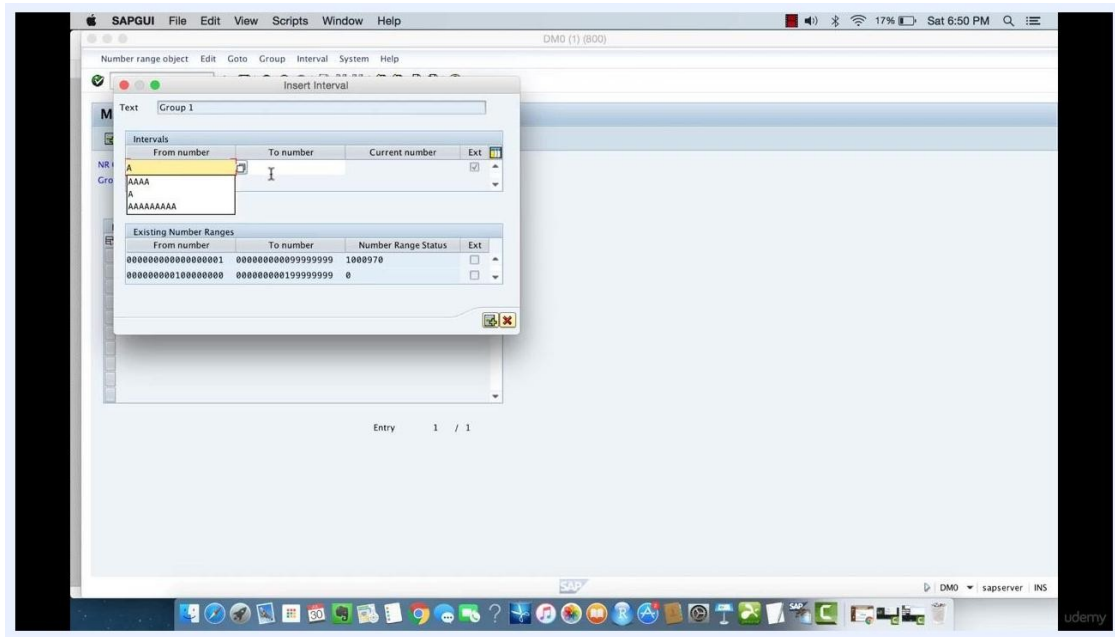
To remove an interval, select its row using the row selector on the left, then click the delete icon (trash can or minus sign) in the toolbar. The interval is removed from the list, and a confirmation message indicates the deletion was successful.



Maintain Number Range Intervals screen showing the BBBB–ZZZZ interval selected for deletion.

Step 8: Create a new number range interval

Click the **Create** or **Insert Interval** button, typically shown as a plus sign or "Insert" icon. In the **Insert Interval** dialog, enter the new **From number** and **To number** values—for example, **A** for the From number and **Z** for the To number. Click the save or confirm icon (green checkmark) to add the new interval, which then appears in the list for the selected group.



Insert Interval dialog with From number set to A and To number set to Z, with existing number ranges shown below.

Step 9: Save your changes and exit the editing screen

Click the save icon to ensure all changes are stored, then exit the interval editing interface to return to the main number range group overview.

Step 10: Verify the updated number range intervals

Navigate back to the **Display Number Range Intervals** screen to see a table listing all intervals for the selected NR Object (Material master). Confirm that your new or edited interval appears as expected—for example, verify that the interval from **A** to **Z** is listed. Check the **Current number** and **Ext** columns for each interval to confirm the configuration is correct.

Number range object Edit Goto Interval System Help

DMO (1) (800)

Display Number Range Intervals

NR Object: Material master

Intervals	From number	To number	Current number	Ext
1	00000000000000000001	00000000009999999999	1000970	1
2	00000000010000000000	00000000019999999999	0	0
3	00000000020000000000	00000000029999999999	0	0
4	00000000100000000000	00000000100000000000	0	0
5	00000000110000000000	00000000210000000000	11100000059	0
6	00000000030000000000	00000000099999999999	0	0
7	00000000020000010000	00000000110000000000	0	0
8	00000000010000100000	00000000199999999999	0	0
9	00000000210000100000	00000000210000000000	0	0

Entry 1 / 11

Display Number Range Intervals screen showing the interval from A to Z among other intervals, confirming it is correctly listed.

Summary

You have now reviewed, edited, deleted, and created number range intervals for material types in SAP MM, and confirmed your changes in the Display Number Range Intervals screen. These intervals determine how material numbers map to material types, so verifying them ensures that new materials are assigned to the correct type automatically.