

Apparel & Footwear

Production

MPR set up and process



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1 1.1 MRP Material Requirements Planning

1.1 Introduction

The Material Requirements Planning (MRP) module enables you to plan material requirements for a manufacturing or procurement process based on the re-evaluation of existing inventories, demands, and supplies on changing planning parameters (such as lead time determination, make or buy decisions, and holiday planning).

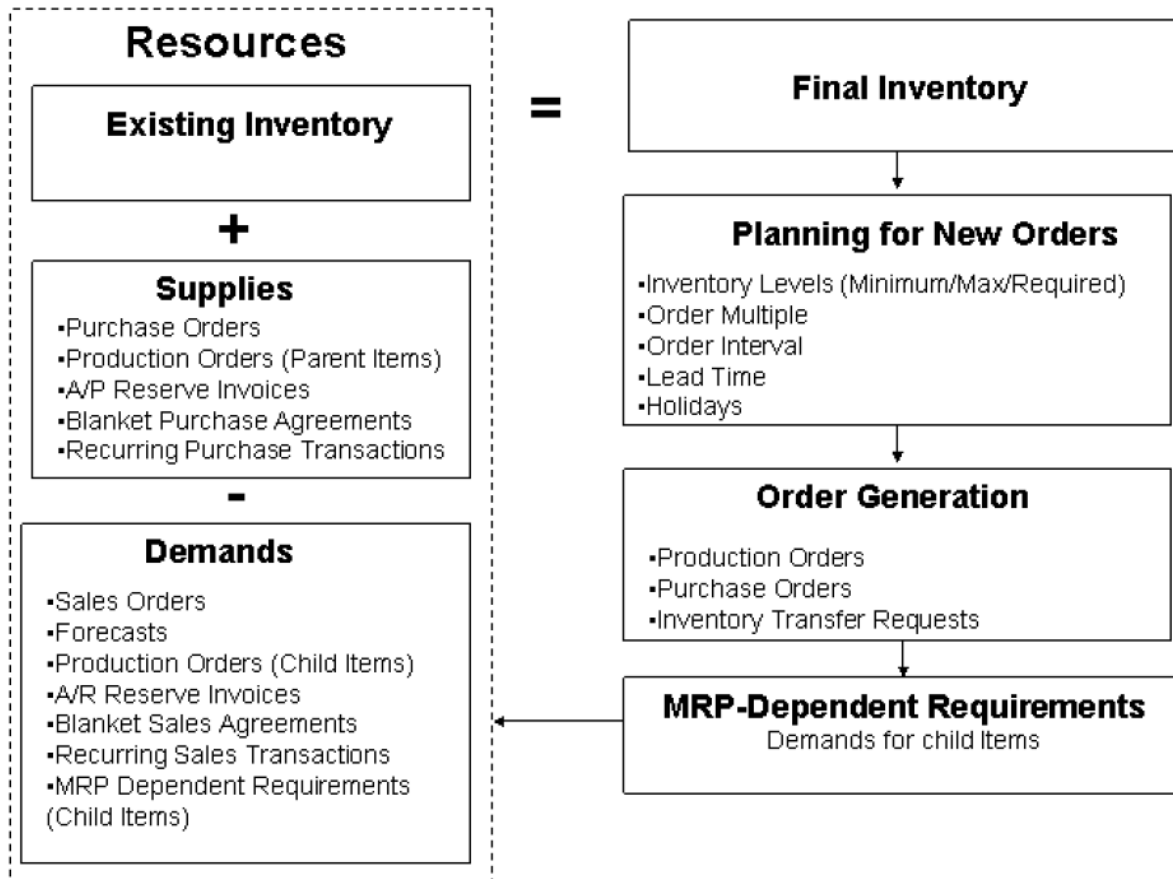
MRP calculates gross requirements for the highest bill of materials (BoM) level, based on existing inventory, sales orders, purchase orders, production orders, forecasts, and so on. It calculates gross requirements at the lowest BOM levels by carrying down net parent demands through the BOM structure. Dependent levels might have their own requirements, based on sales orders and forecasts.

The results of the MRP run are report and recommendations that fulfil gross requirements by taking into consideration the existing inventory levels and existing purchase orders and production orders. The MRP run also takes into account predefined planning rules such as Order Multiple, Order Interval, Minimum Order Quantity, Inventory Level, and so on.

1.2 1.2 MRP -Settings

The Material Requirements Planning (MRP) function lets you plan material requirements for complex manufacturing and procurement processes. To create and run MRP scenarios, you use the MRP wizard. The wizard generates recommendations (production orders, purchase orders, and inventory transfer requests) required to produce or procure the final product on time and in the required quantity. In the Order Recommendation report, you create production and purchase orders based on these recommendations.

The MRP Process in SAP Business One as follow below:

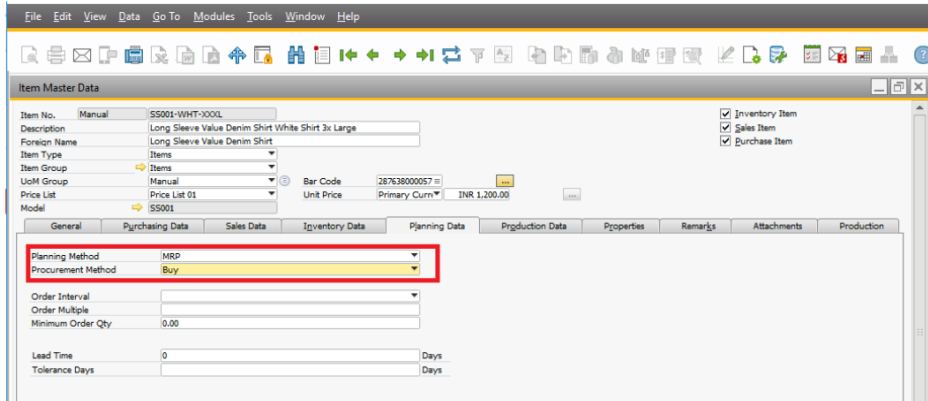


1.3 1.3 MRP Settings

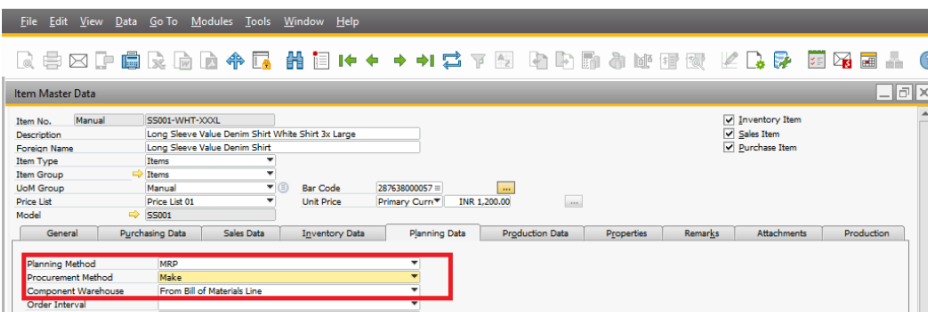
Planning Method - Only items with the Planning Method of MRP are available for selection when you are running the MRP wizard.

Procurement Method- The procurement method affects the order type MRP recommends for items with demands.

For materials and packaging item the planning and procurement method should be MRP/BUY

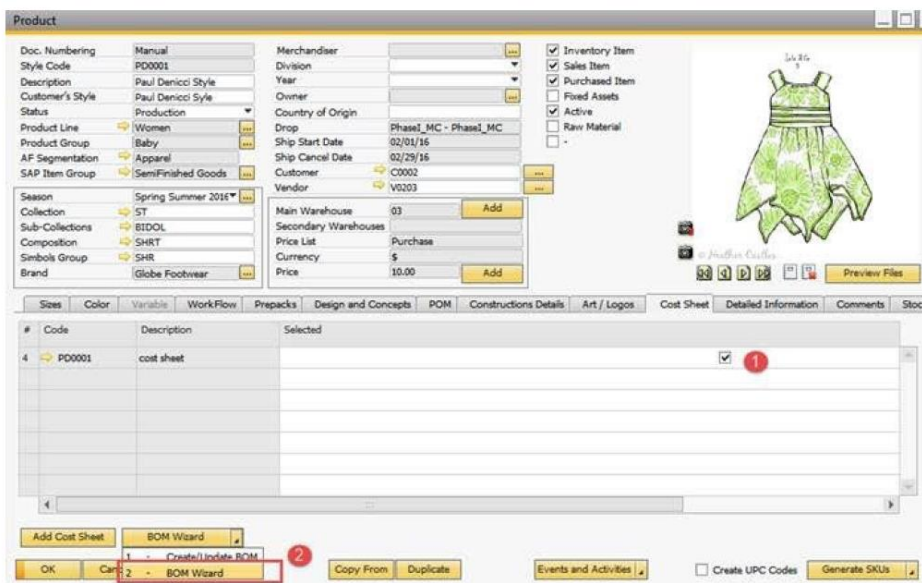


For finished goods item the planning and procurement method should be MRP/BUY



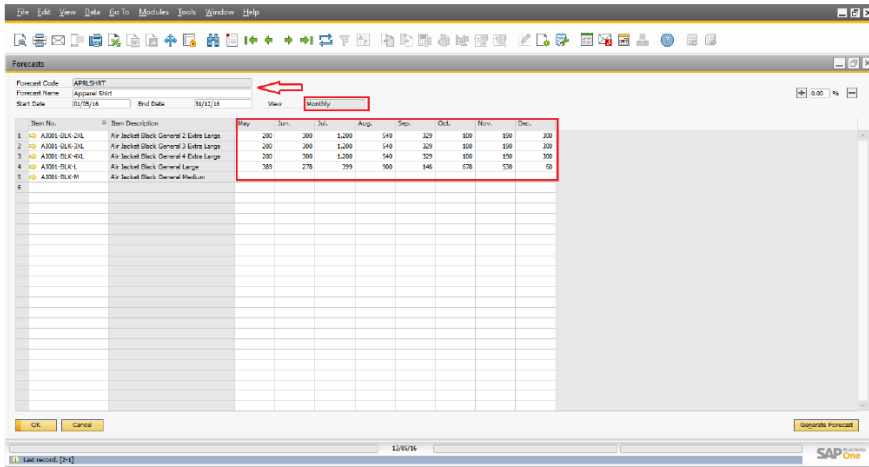
1.4 1.4 BOM Wizard

The Finish Good should have created the BOM. To Create the BOM, select the Cost sheet first, and then select “BOM Wizard”, as the image below:

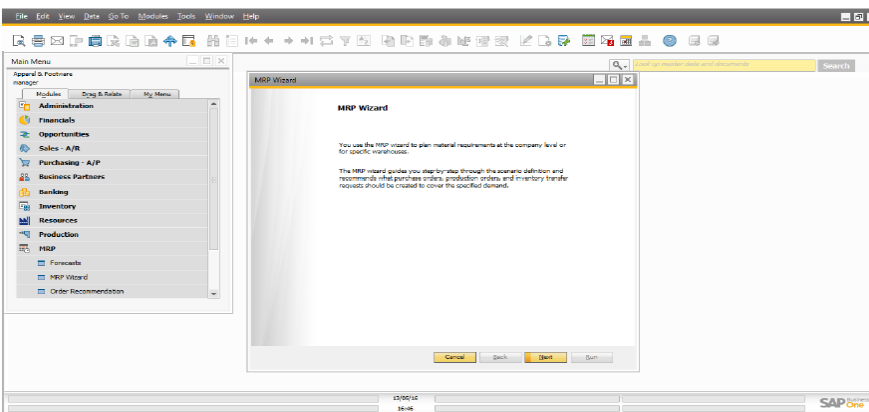


1.5 1.5 MRP Run-Process

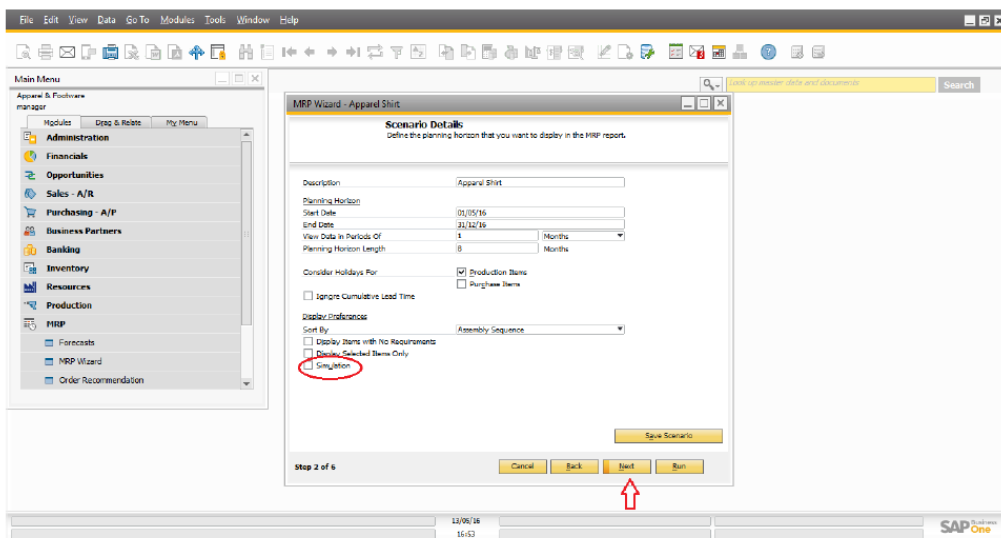
Before run MRP first needs to create a sales forecast. The forecast can be created on daily, weekly and monthly. (Main menu –MPR-- Forecast)



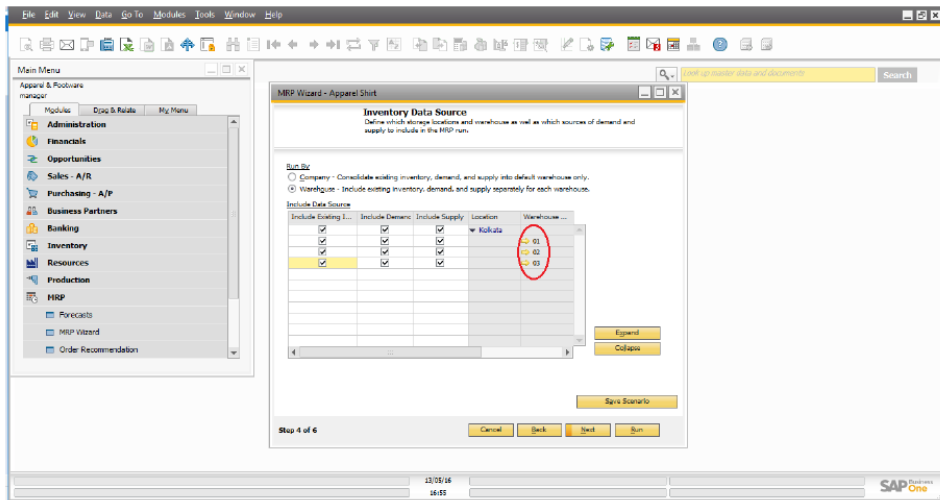
Then need to run the MRP wizard (Main menu –MPR-- MRP wizard) and click on “Next”



Create new scenario with a date range and save the scenario for future use and click on “Next”

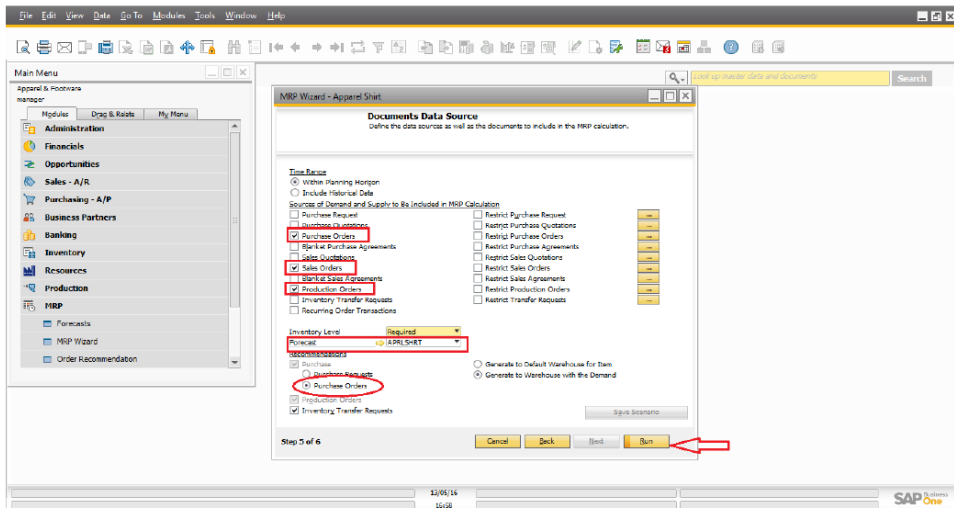


Next need to choose the inventory data source where you can mention the list of warehouses and click on “Next”



Need to choose the document sources (i.e. Sales, Purchase, Production and Inventory Transfer) which will be included in the MRP run.

- Choose inventory level and forecasts created earlier.
- Choose the recommendation either purchase requests or purchase order.
- Click on “Run” to get the MRP report and recommendation.



MRP Results

On the "Report" tab, you may toggle the final inventory quantity either before or after the MRP run with the "Include MRP Run Results" checkbox.

Planning Horizon: 01/07/16 - 31/12/16 Calculated At: 17:08

Find Item No.:

Report: Recommendations

Expand MRP Run Results Hide Possible Creation Items

Item No.	Item Description	Unit	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Future Data
1	Initial Inventory			60	60	60	60	60	60	60	60
	Supply		300	1,200	540	420	190	190	200	200	200
	Demand		60	200	2,000	540	220	300	200	200	200
	Final Inventory		60	60	60	60	60	60	60	60	60
2	AJWS-BLK-3XL Air Jacket Black General 2 Extra Large		390	1,200	540	220	100	190	200		
	Initial Inventory			90	90	90	90	90	90	90	90
	Supply		200	1,200	540	420	190	190	200	200	200
	Demand		300	1,200	540	220	100	190	200	200	200
	Final Inventory		90	90	90	90	100	90	90	90	90
3	AJWS-BLK-4XL Air Jacket Black General 4 Extra Large		180	1,200	540	180	100	190	200		
	Initial Inventory			180	180	180	180	180	180	180	180
	Supply		180	1,200	540	420	190	190	200	200	200
	Demand		180	1,200	540	180	100	190	200	200	200
	Final Inventory		180	180	180	180	200	180	180	180	180
4	AJWS-BLK-L Air Jacket Black General Large		420	1,200	540	146	678	530	60		

Expand/Collapse Save Recommendations Save Scenario

Step 6 of 6

Cancel Back Next Finish

See the recommendation

File Edit View Data Go To Modules Tools Window Help

MRP Wizard - Apparel Shirt

MRP Results
On the "Report" tab, you may toggle the final inventory quantity either before or after the MRP run with the "Preview MRP Run Results" checkbox.

Planning Horizon: 01/05/16 - 31/12/16 Calculated At: 17:06

Find Item No.

#	Order Type	Item No.	Item Description	Quantity	UoM Code	UoM Name	Release Date	Due Date	Vendor Code	Unit Price	Discount	Price After Discount	From Whse	To Whse	Total Qty (Inventory ...)
39	Production Order	AJ001-BLK-L	Air Jacket Black General Large	500	Manual		24/12/16	01/11/16		0.00					5.00
40	Production Order	AJ001-BLK-L	Air Jacket Black General Large	60	Manual		23/11/16	01/12/16		0.00					
41	Production Order	AJ001-BLK-M	Air Jacket Black General Medium	30	Manual		20/09/16	26/09/16		0.00					
42	Production Order	AJ001-BLK-M	Air Jacket Black General Medium	30	Manual		20/09/16	26/09/16		0.00					
43	Production Order	AJ001-BLK-M	Air Jacket Black General Medium	30	Manual		20/09/16	26/09/16		0.00					
44	Purchase Order	M01-BLU	Tolo Jeans Blue	1,190	Manual		11/09/16	20/09/16		0.00					1.19
45	Purchase Order	M01-BLU	Tolo Jeans Blue	30	Manual		11/09/16	20/09/16		0.00					
46	Purchase Order	M01-BLU	Tolo Jeans Blue	30	Manual		11/09/16	20/09/16		0.00					
47	Purchase Order	M01-BLU	Tolo Jeans Blue	368	Manual		17/09/16	24/09/16		0.00					
48	Purchase Order	M01-BLU	Tolo Jeans Blue	600	Manual		16/09/16	26/09/16		0.00					
49	Purchase Order	M01-BLU	Tolo Jeans Blue	600	Manual		19/09/16	26/09/16		0.00					
50	Purchase Order	M01-BLU	Tolo Jeans Blue	600	Manual		20/09/16	27/09/16		0.00					
51	Purchase Order	M01-BLU	Tolo Jeans Blue	796	Manual		14/09/16	21/09/16		0.00					
52	Purchase Order	M01-BLU	Tolo Jeans Blue	2,400	Manual		17/09/16	24/09/16		0.00					2.40
53	Purchase Order	M01-BLU	Tolo Jeans Blue	2,400	Manual		20/09/16	27/09/16		0.00					2.40

Save Recommendations Save Scenario

Cancel Back Next Finish

Step 6 of 6

11/09/16 17:10

SAP Business One