MRP Strategies (PP-MRP)

Purpose
The purpose of this page is to summerize the MRP strategies documentations from SCN.

MRP Strategies Overview

Make-to-stock
- 10 - Make to stock production
- 11 - Make-to-stock prod./gross reqmts planning
- 30 - Production by lot size
- 40 - Planning with final assembly
- 70 - Planning at assembly level

Make-to-order
- 20 - Make to order production
- 50 - Planning without final assembly

MRP Strategies - Basic settings

For the Planning the most important properties are in the Material Master MRP3 tab, Planning fields:
- Strategy Group
- Consumption mode
- Bwd. consumption period
- Fwd. consumption period
- Mixed MRP

The strategy group, groups all the planning strategies that can be used for a particular material. The planning strategy represents the procedure used for planning a material and is (technically speaking) controlled by the MRP types.

Customizing settings in OPP1 transaction at Planning Strategy:
- OPPS - Define Strategy
- OPPT - Define Strategy Group
- OPPU - Assign MRP Group to Strategy Group

MRP Strategies

Make - To - Stock

- For Finished product (Material master – MRP3 tab)
- Only the planned independent requirement important when run the MRP
- Sales order only info, not relevant for MRP, but you can display them
- determined without reference to sales orders
- FIFO principle (oldest PIR reduced first)


30 - Production by lot size:
- For Finished product (Material Master – MRP3 tab)
- FIFO principle (oldest PIR reduced first)
- Sales order is MRP relevant
- Planned independent requirements are not consumed by sales orders
40 - Planning with final assembly:

- For Finished Product (Material Master – MRP3 tab)
- Sales order is MRP relevant
- Planned independent requirements are consumed by sales orders
- If the customer requirements exceed the PIR, automatically creates planned order (including unplanned quantities) for sales order.

Example: Material Master settings in MRP3 tab:

- Strategy group: 40
- Consumption mode: 2 (Backward/Forward consumption)
- Bwd consumption period: 30 day
- Fwd consumption period: 20 day

With this settings the Sales Order will be consume the required quantities from the Backward PIR (to 30 days from SO date), and afterward from the Forward PIR (to 20 days from SO date), still the Sales Order not will be ok.

- MD73 shows you the Planned Independent Requirements
- Sales Order not will be visible in MD04
- SE16:
  - PBIM: search Material, and copy the Requirement Pointer
  - PBED: insert Requirement Pointer, the quantities will be visible
  - PBHI:
- MD74: if you delete the Sales Order, the Planned Independent Requirement will be visible again in MD04 (Stock List)

70 - Planning at Assembly Level:

- For Semi-finished product (Material Master – MRP3 tab)
- The finished product can show any strategy!
- The requirements consumed by sales orders in the second level of BOM
- Using this strategy for example: in car manufacturing

Make - To - Order

20 - Make to order production: [http://scn.sap.com/docs/DOC-54915](http://scn.sap.com/docs/DOC-54915)

- Without PIR
- Production only if there is sales order
- Using this strategy for example: special yacht or spaceship manufacturing etc.
- Material Master MRP4 tab you can set Ind/Coll. (only to subassembly), and then you can see the Orders what you are set in here:
  - 0 – inheritance from header
  - 1 – Individual: stated individually
  - 2 – Collective: grouped together
- MRP elements are created with reference to sales orders
- MD50: MRP run for the grouped segment
50 - Planning without final assembly:

- Assemblies and components are kept in stock until the SO is received
- Independently planning from SO with planned independent requirements (PIRs)
- High value added at final assembly level
- Reduce delivery times
- Individual/collective indicator except for the final assembly it is set to 2

Related Documents

Overview of SAP Planning Strategy
Make-to-Stock Strategies: Strategy 10
Make-to-Stock Strategies - Strategy 11
Make to Order Strategies - Strategy 20

Related SAP Notes/KBAs

SAP Note
SAP KBA