

Production Planning- Configuration Document

The major configurations that are carried out: -

1. Plant Parameter (OPPQ)
2. MRP Group Parameter (OPPR)
3. Activate MRP (OMDU)
4. Order type Parameter (OPJH)
5. Order type dependent Parameter (OPL8)
6. Production Scheduling Profile (OPKP)
7. Scheduling Profile (OPU3)
8. Control Key (OP00)
9. Availability Check Parameter (OPJK)
10. Confirmation Parameter (OPK4)

1	MATERIAL REQUIREMENTS PLANNING	4
1.1	PLANT PARAMETERS.....	4
1.1.1	<i>Overall maintenance of Plant parameters</i>	<i>4</i>
1.2	MRP PARAMETERS.....	24
1.2.1	<i>Overall maintenance of MRP groups</i>	<i>24</i>
1.3	PLANNING.....	33
1.3.1	<i>Define Storage location MRP per Plant</i>	<i>33</i>
1.4	PLANNING FILE ENTRIES	35
1.4.1	<i>Activate MRP & Set Up Planning File</i>	<i>35</i>
2	DEFINE PRODUCTION SCHEDULING PROFILE.....	37
2.1	PRODUCTION SCHEDULER	40
2.2	OPERATIONS.....	41
2.2.1	<i>Define Scheduling Parameters for Production Orders</i>	<i>41</i>
3	SHOP FLOOR CONTROL.....	43
3.1	MASTER DATA	43
3.1.1	<i>Define Order types.....</i>	<i>43</i>
3.1.2	<i>Define Order Type Dependent Parameters.....</i>	<i>46</i>
4	CONTROL KEY	57
5	AVAILABILITY CHECK PARAMETER (OPJK)	59
6	DEFINE CONFIRMATION PARAMETERS	63

1 Material Requirements Planning

The main function of material requirements planning is to guarantee *material availability*, that is, it is used to procure or produce the requirement quantities on time both for internal purposes and for sales and distribution. This process involves the monitoring of stocks and, in particular, the automatic creation of procurement proposals for purchasing and production.

1.1 Plant parameters

SAP MRP is run at plant level or at a group of plant level (called as scope of planning), thus the MRP configuration is done at Plant level.

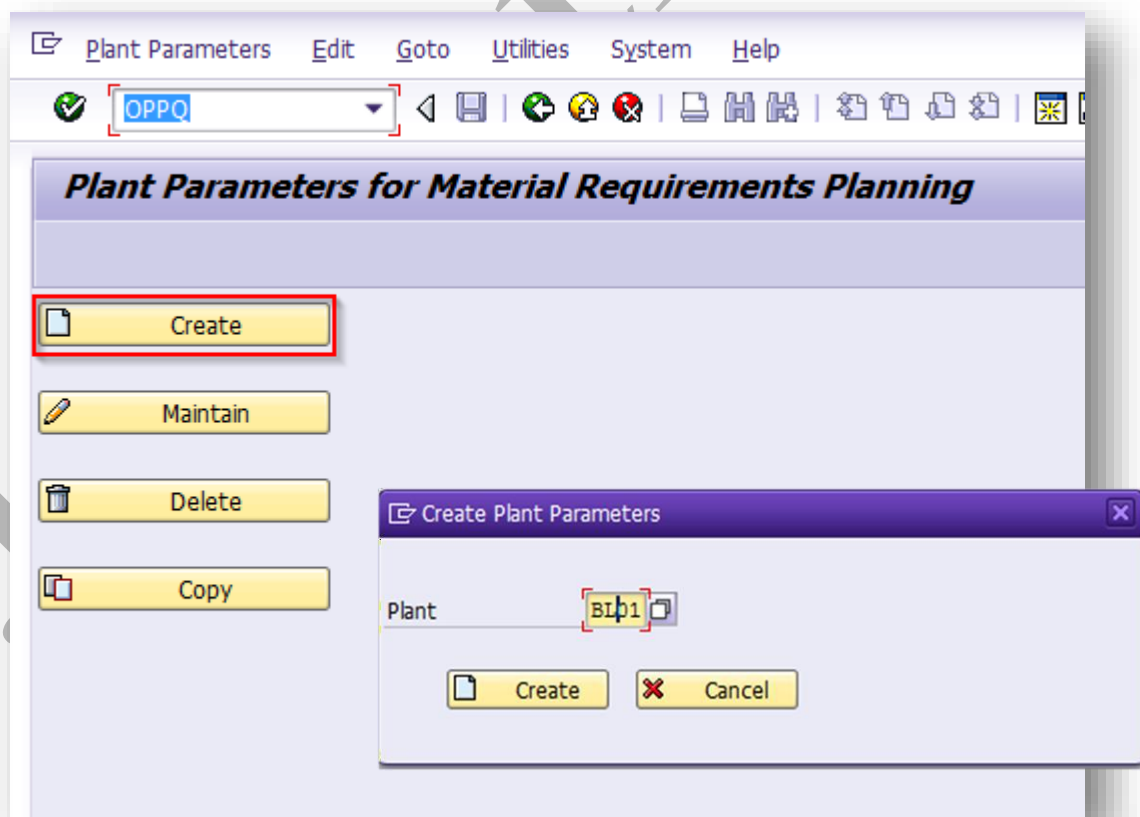
The configuration done for SAP MRP at Plant level would also be true for SAP Consumption Based Planning (SAP CBP) settings.

1.1.1 Overall maintenance of Plant parameters

Transaction Code: OPPQ

Menu Path: Production → Material Requirements Planning → Plant Parameters → Carry out Overall Maintenance of Plant Parameters

Here we can create or maintain all the plant parameters for MRP.



Following are the parameters that need to maintain as a part of SAP MRP Configuration:

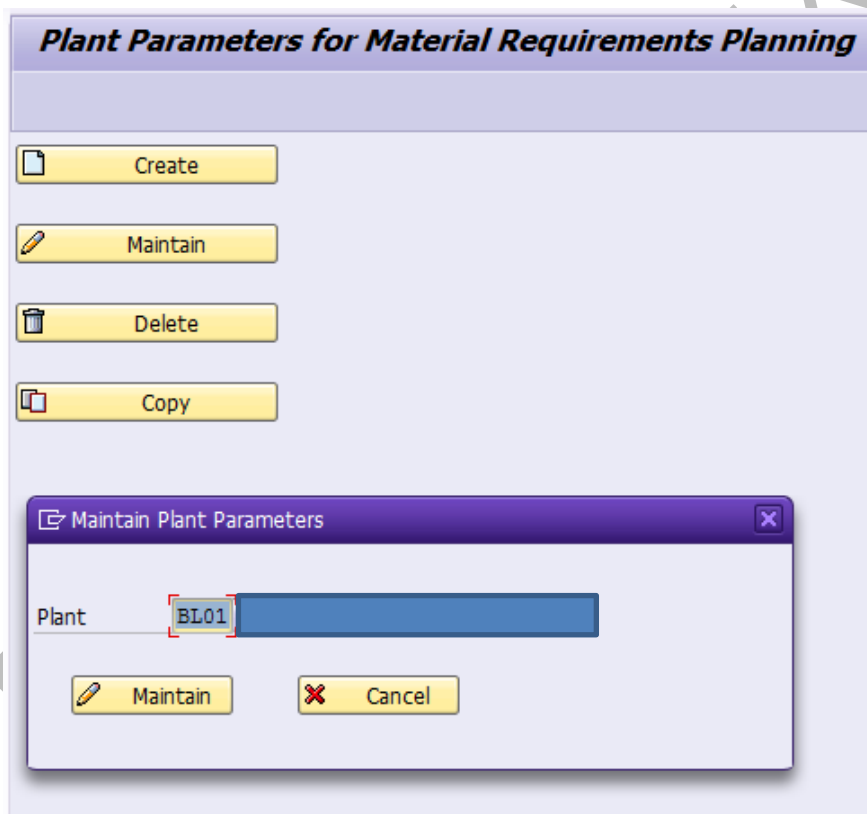
a) Number ranges

The number range IDs are maintained for the following objects:

- ✓ the Planned orders
- ✓ the reservations,
- ✓ the dependent requirements,
- ✓ the simulative dependent requirements,
- ✓ the purchase requisitions,
- ✓ the MRP Lists,

In this section only the number range ID's are maintained. While the actual number range is configured, for the number range ID, using a transaction code OMI2 (for the above mentioned objects created in the planning run). One can also use the transaction code OMI3 for the objects created manually in the front end.

Every number range interval, created using OMI2 and OM13, has an ID, which can be allocated to the objects at plant level, i.e., every plant can have a different number range for the objects mentioned above.



Maintain Plant Parameters

Plant BL01 Reference Plant Initial

Maintain Environment

Number Ranges To maint.

Check Rule: Backorders Initial

Reporting Initial

Maintain Planning Run

BOM/Routing Selection To maint.

BOM Explosion Initial

Parameters for DS Initial

External Procurement To maint.

Rescheduling Initial

Planning Horizon To maint.

Available Stocks Initial

Maintain Master Data

MRP Controllers To maint.

Special Procurement Initial

Floats To maint.

Assign Number Ranges

Plant BL01

Number Ranges

Planned Orders Maintained

Reservations/Dependent R... Maintained

Purchase Requisitions Maintained

MRP Lists Maintained

Simulative Dep Req Maintained

Maintain Plant Parameters

Plant BL01 BLUEEAGLE PRODUCTION PLANT Reference Plant Initial

Maintain Environment

Number Ranges Maintained

Check Rule: Backorders Initial

Reporting Initial

Maintain Planning Run

BOM/Routing Selection Maintained

BOM Explosion Initial

Parameters for DS Initial

External Procurement Maintained

Change View "Checking Rule for Updating Backorders": Overview

✎ ↶ 📄 📄 📄

Plnt	Name 1	Check Rule	Description of Checking Rule
BL01		PP	PP checking rule

c) MRP Controllers

This is a mandatory configuration. Here you can configure the list of MRP controllers for the plant. A MRP Controller is a person or a group of people, which is responsible for planning a material or a given list of materials.

You have to assign the MRP controller to the Material Master MRP 1 View, so as to delegate the responsibility of the planning and evaluation of planning for that material.

Maintain Plant Parameters

Plant BL01 Reference Plant Initial

Maintain Environment

Number Ranges Maintained

Check Rule: Backorders Initial

Reporting Initial

Maintain Master Data

MRP Controllers To maint.

Special Procurement Initial

Floats To maint.

Maintain Planning Run

BOM/Routing Selection To maint.

BOM Explosion Initial

Parameters for DS Initial

External Procurement To maint.

Rescheduling Initial

Planning Horizon To maint.

Available Stocks Initial

Direct Procurement Initial

Maintain MRP Controller

Plant BL01

MRP Controllers

1 MRP Controller To maint.

2 Missing parts MRPcontr. Initial

Change View "MRP Controllers": Overview

  **New Entries**      

Plnt	Name 1	MRP Cont.	MRP controller name

New Entries: Details of Added Entries

Plant

MRP Controller

Telephone

Telephone

Change View "Missing Parts MRP Controller": Overview

Plnt	Name 1	MRP	Controller name	Recipient
BL01				

New Entries: Details of Added Entries



Plant

MRP Controller

Telephone

Telephone

Missing parts message at goods receipt

Recipient Name

Accounting organizational area

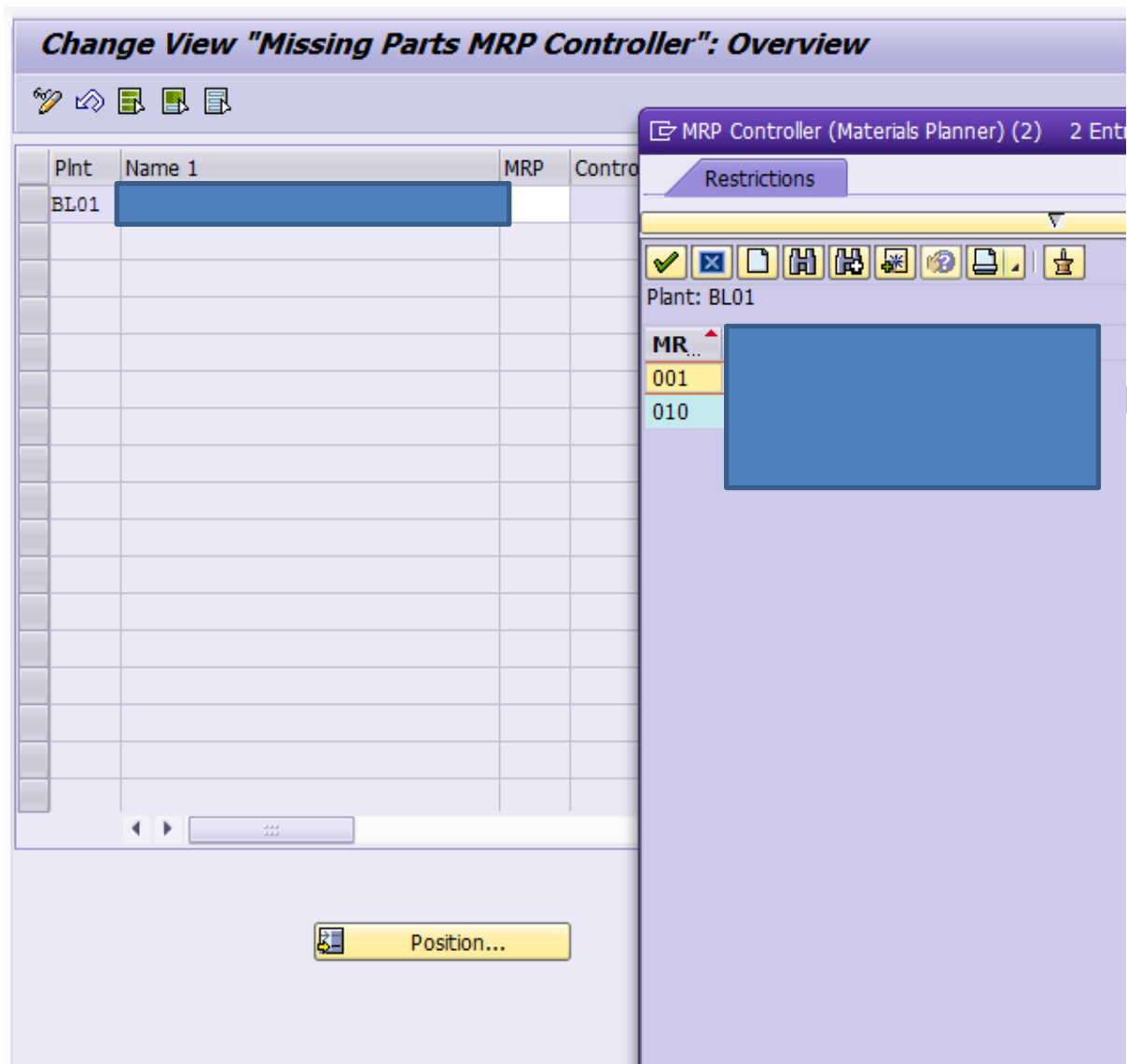
Business Area

Profit Center

Recipient for mail to MRP controller

Recipient type

Recipient



d) Floats

Floats are buffers in the total lead time, that are provided in production/process order or in the planned orders created manually or during an MRP run. The schedule margin key is used in the Material Master MRP 2 View. It is used in MRP as well as in production order.

The floats are defined using the scheduling margin key.

Opening period: Number of working days between the date that the order is created and the planned start date. This time is available for the MRP controller to convert a planned order into a purchase requisition or a production order.

Float after production: Number of working days between the scheduled finish date and the order finish date; used as a float in production scheduling.

Float before production: Number of working days between the order start date and the scheduled start date; used as a float in production.

Scheduling release period: Number of workdays between the planned start date and the date for releasing the order. If the order release indicator is set, the production order is released by a background program that takes all dates into account.

Plant	BL01	Reference Plant	Initial
Maintain Environment			
Number Ranges		Maintained	
Check Rule: Backorders		Initial	
Reporting		Initial	
Maintain Master Data			
MRP Controllers		Maintained	
Special Procurement		Initial	
Floats		To maint.	
Maintain Planning Run			
BOM/Routing Selection		To maint.	
BOM Explosion		Initial	
Parameters for DS		Initial	
External Procurement		To maint.	
Rescheduling		Initial	
Planning Horizon		To maint.	
Available Stocks		Initial	
Direct Procurement		Initial	





Latin

V) Direct production (for Collective order processing)

Maintain Plant Parameters	
<div>Maintain Master Data</div> <div>MRP Controllers Maintained</div> <div>Special Procurement Initial</div> <div>Floats Maintained</div>	
<div>Maintain Planned Orders</div> <div>Conversion Maintained</div> <div>Dep. Reqmt Availability Maintained</div>	
External Procurement	To maint.
Rescheduling	Initial
Planning Horizon	To maint.
Available Stocks	Initial
Direct Procurement	Initial
Error Handling	To maint.
Item Numbers	To maint.
Start in Past	Initial

[illegible]

New Entries: Details of Added Entries

Plant

Sp.Pr.Type

Procurement type No procurement

Special Procurement

Special procurement Init.value: external

Plant

As BOM component

☐ Phantom item

☐ Direct production

☐ Direct procurement

☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	
Sp.Pr.Type	20	External Procurement

Procurement type ☒ F No procurement

Special Procurement

Special procurement ☐ Init.value: external
Plant

As BOM component

☐ Phantom item
☐ Direct production
☐ Direct procurement
☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	
Sp.Pr.Type	30	Sub Contracting

Procurement type ☒ F No procurement

Special Procurement

Special procurement ☒ L Init.value: external
Plant

As BOM component

☐ Phantom item
☐ Direct production
☐ Direct procurement
☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	BLUEEAGLE PRODUCTION PLANT
Sp.Pr.Type	30	Sub Contracting

Procurement type ☒ External procurement

Special Procurement

Special procurement ☒ Subcontracting

Plant

As BOM component

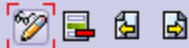
☐ Phantom item

☐ Direct production

☐ Direct procurement

☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	BLUEEAGLE PRODUCTION PLANT
Sp.Pr.Type	31	Sub Contracting Phantom

Procurement type ☒ External procurement

Special Procurement

Special procurement ☒ Subcontracting

Plant

As BOM component

☒ Phantom item

☐ Direct production

☐ Direct procurement

☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	BLUEEAGLE PRODUCTION PLANT
Sp.Pr.Type	50	Phantom Assembly

Procurement type ☒ In-house production

Special Procurement

Special procurement ☒ In-house production
Plant

As BOM component

☒ Phantom item
☐ Direct production
☐ Direct procurement
☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	BLUEEAGLE PRODUCTION PLANT
Sp.Pr.Type	51	Direct Production/Collective Order

Procurement type ☒ External procurement

Special Procurement

Special procurement ☐ Init.value: external
Plant

As BOM component

☐ Phantom item
☐ Direct production
☒ Direct procurement
☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	BLUEEAGLE PRODUCTION PLANT
Sp.Pr.Type	52	Direct Production/Collective Order

Procurement type In-house production

Special Procurement

Special procurement In-house production
Plant

As BOM component

☐ Phantom item
☒ Direct production
☐ Direct procurement
☐ Withdr.altern.plant Issuing plant

New Entries: Details of Added Entries



Plant	BL01	BLUEEAGLE PRODUCTION PLANT
Sp.Pr.Type	60	Phantom in Planning

Procurement type In-house production

Special Procurement

Special procurement In-house production
Plant

As BOM component

☐ Phantom item
☐ Direct production
☐ Direct procurement
☐ Withdr.altern.plant Issuing plant

f) Conversion for Planned orders

In this configuration parameter, you can maintain the production order type or the process order type, which the system should use as default during the planned order conversion. Setting defaults in the plant parameters configuration allows the system to fix and select the order type for a plant during the conversion process.

Also for the purchase requisition conversion, you are given an option in the configuration to define the maximum number of planned orders that can be converted in to Purchase requisition.

The screenshot shows the SAP 'Maintain Plant Parameters' configuration screen. At the top, there is a dropdown menu with 'OPPQ' selected. Below this, the screen is divided into two main sections: 'Maintain Master Data' and 'Maintain Planned Orders'.

Maintain Master Data:

- MRP Controllers: Maintained
- Special Procurement: Initial
- Floats: Maintained

Maintain Planned Orders:

- Conversion: To maint. (highlighted with a red box)
- Dep. Reqmt Availability: To maint.

Other Parameters:

- Rescheduling: Initial
- Planning Horizon: To maint.
- Available Stocks: Initial
- Direct Procurement: Initial
- Error Handling: To maint.
- Item Numbers: To maint.
- Start in Past: Initial
- Performance: Initial

Conversion






Plant

Conversion

To maint.

To maint.

Change View "Conversion Planned Order -> Prod.Order, MRP Customizing"

Plant

Order types for the conversion

Production order	<input type="text" value="ZPP1"/>	Standard production order for BL
Process order	<input type="text"/>	

1.2 MRP parameters

1.2.1 Overall maintenance of MRP groups

Transaction Code: OPPR

The entire configuration that is created as a part of SAP MRP Plant level parameter in the above steps can be also set for an MRP Group. You can group materials using MRP Groups. Each of the MRP Group can have its own MRP Parameter set. You can set the MRP group in the material master MRP 1 View.

MRP Group can be maintained using transaction code OPPR or the transaction path – Logistics > Production > MRP > MRP Groups >

Advantage of working with MRP Groups:

Working with MRP groups can be convenient for a plant or an organization, since by assigning the MRP groups to a set of materials, would allow planner to configure these materials (through MRP Groups) to behave in a certain manner for planning purposes. In other words, all the materials in the group would then have a unique planning method or unique planning features. Thus the organization can device multiple MRP groups with their own planning features and characteristics rather than having one set of planning features set at the plant level. The group could have its own unique:

- Strategy group,
- Conversion order types,
- Planning horizon,
- Planning time fence and roll forward periods,
- BOM and task list selection ID's,
- Direct procurement parameters,
- Planned order scheduling parameters,
- Start number of days allowed in the past
- Availability checking groups,

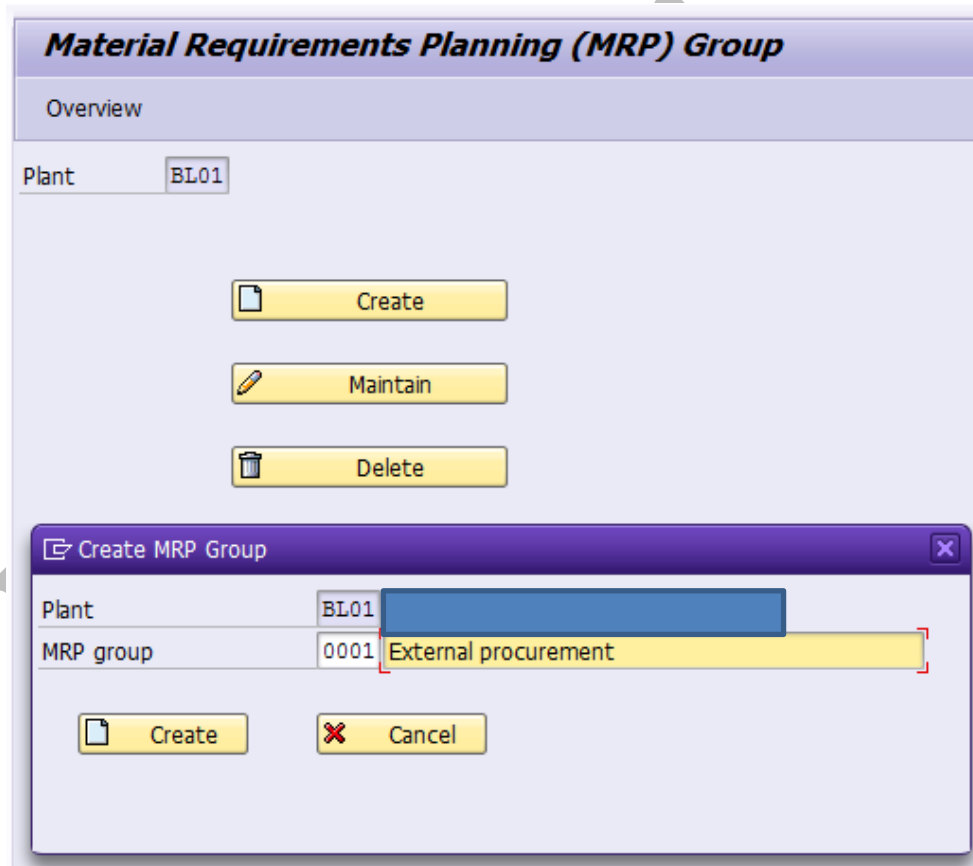
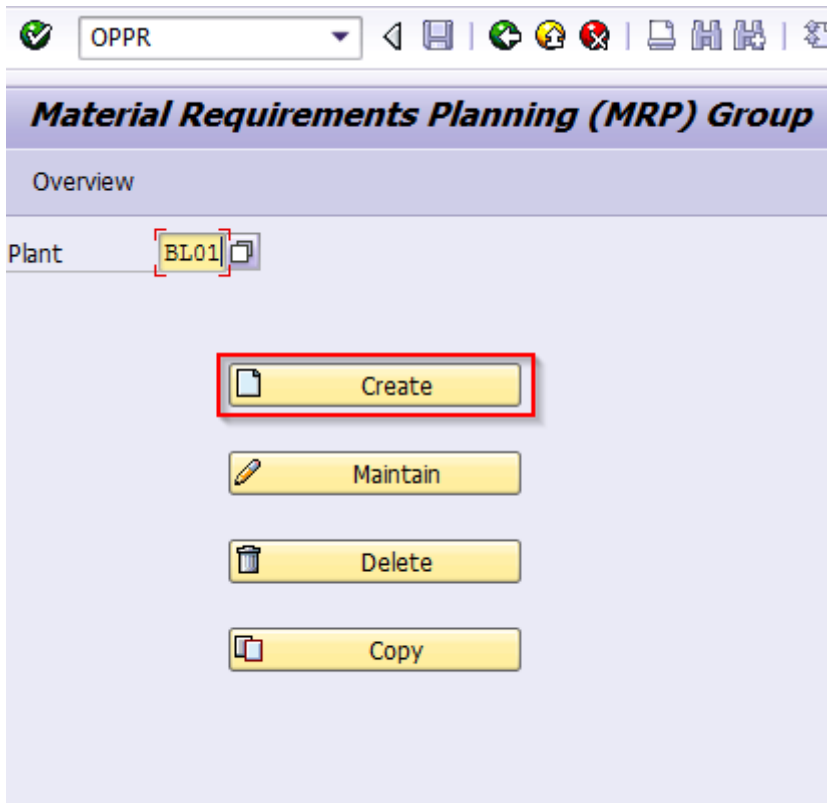
Strategy Groups

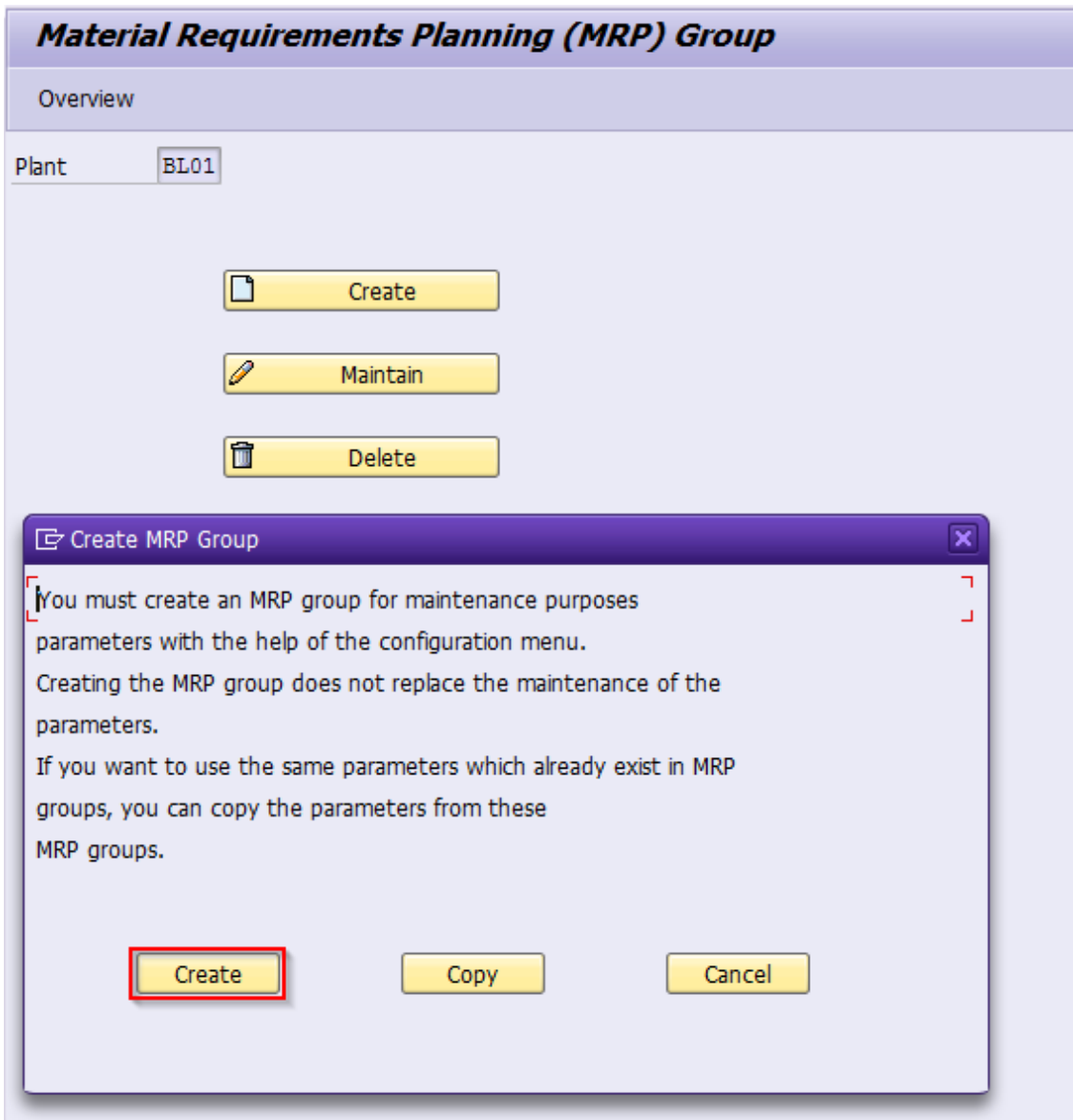
The strategy groups can be set for a given MRP group at a given plant. The strategy group consists of a number of planning strategies assigned in a sequence of priorities. In other words, the strategy groups, groups together the relevant planning strategies of a material. If you don't see the default strategy groups, then we would have to manually maintain the strategy groups on the materials MRP 3 view. Defaulting the strategy groups is a nice idea when the strategy groups would remain the same across all the materials which would be assigned with a given strategy group.

For example:

A material can have the priority 1 strategy as Made-to-Stock (planning strategy 10) and then priority 2 planning strategy as Made-to-Order (planning strategy 20). Assigning this “strategy group” for a MRP group in the MRP Group Parameters configuration and then subsequently assigning the MRP Group to the material master would make the material work on a planning strategy 10 and planning strategy 20 in a sequence of priority.

The primary strategy for the material is 10 – Made-to-stock while the secondary strategy is 20 – Made-to-order, which means that every time you plan or produce a material or create a sales order for the material it will always primarily work as a made-to-stock material. Nevertheless, you can also make to material work as a made-to-order material, by changing the requirement type – “KE” of the material in the sales order procurement tab, to suit for made-to-order, which the system would allow since the material's secondary planning strategy is made-to-order.





Material Requirements Planning (MRP) Group

Overview

PlantBL01

Create

Maintain

Delete

Create MRP Group

PlantBL01

MRP group0002Consumables

Create

Cancel

Material Requirements Planning (MRP) Group

Overview

Plant

Create

Maintain

Delete

Create MRP Group

You must create an MRP group for maintenance purposes parameters with the help of the configuration menu.

Creating the MRP group does not replace the maintenance of the parameters.

If you want to use the same parameters which already exist in MRP groups, you can copy the parameters from these MRP groups.

Create


Copy


Cancel


Material Requirements Planning (MRP) Group

Overview

Plant

 Create



 Maintain

 Delete

Create MRP Group

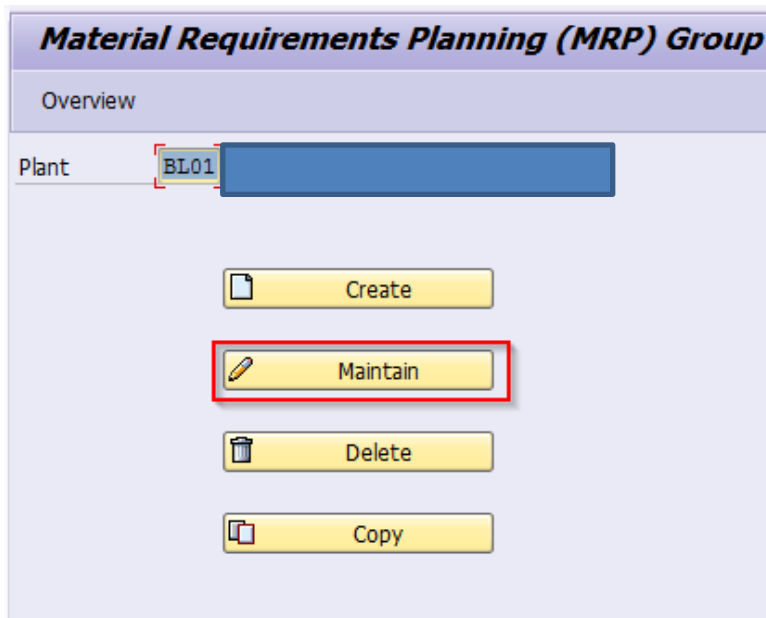
Plant

MRP group In-house production with PIR

 Create  Cancel

Similarly MRP Group 0004 for in- house production without PIR was created.

To Maintain MRP Group,



Material Requirements Planning (MRP) Group

Overview

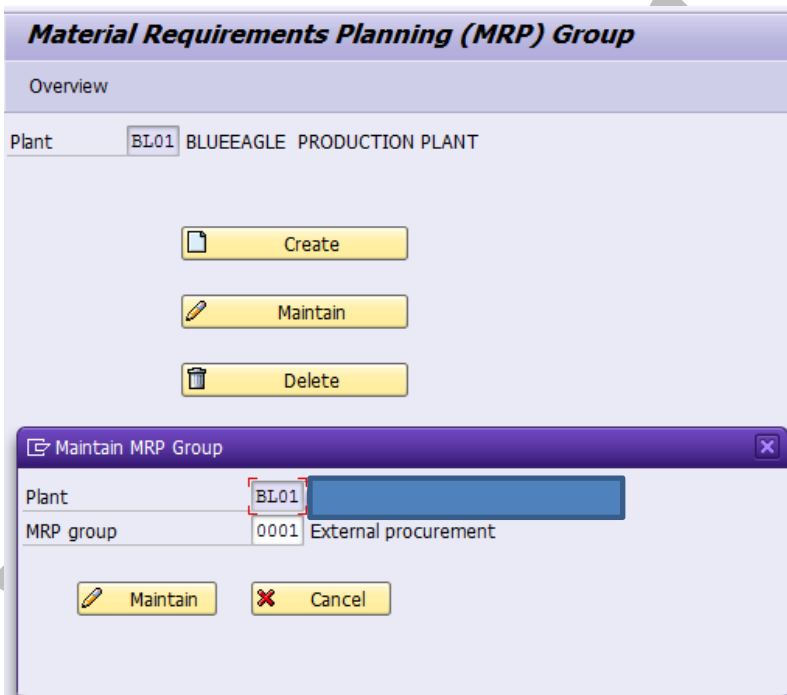
Plant BL01

Create

Maintain

Delete

Copy



Material Requirements Planning (MRP) Group

Overview

Plant BL01 BLUEEAGLE PRODUCTION PLANT

Create

Maintain

Delete

Maintain MRP Group

Plant BL01

MRP group 0001 External procurement

Maintain Cancel

Maintain MRP Group

Plant: BL01 [Redacted]
 MRP group: 0001 External procurement

Assign Strategies
 Strategy Group: Initial

Consumption Mode/Adjustment Horizon
 Consumption/Adjustment: Initial

Horizons
 Rescheduling Horizon: Initial
 Planning Horizon: Initial
 Planning Time Fence: Initial

Planning Run
 Max. MRP Interval: Initial
 Safety Stock: Initial
 BOM Explosion: Initial
 Direct Procurement: Initial
 Creation Indicator: Initial
 Firming: Sch. Line: Initial

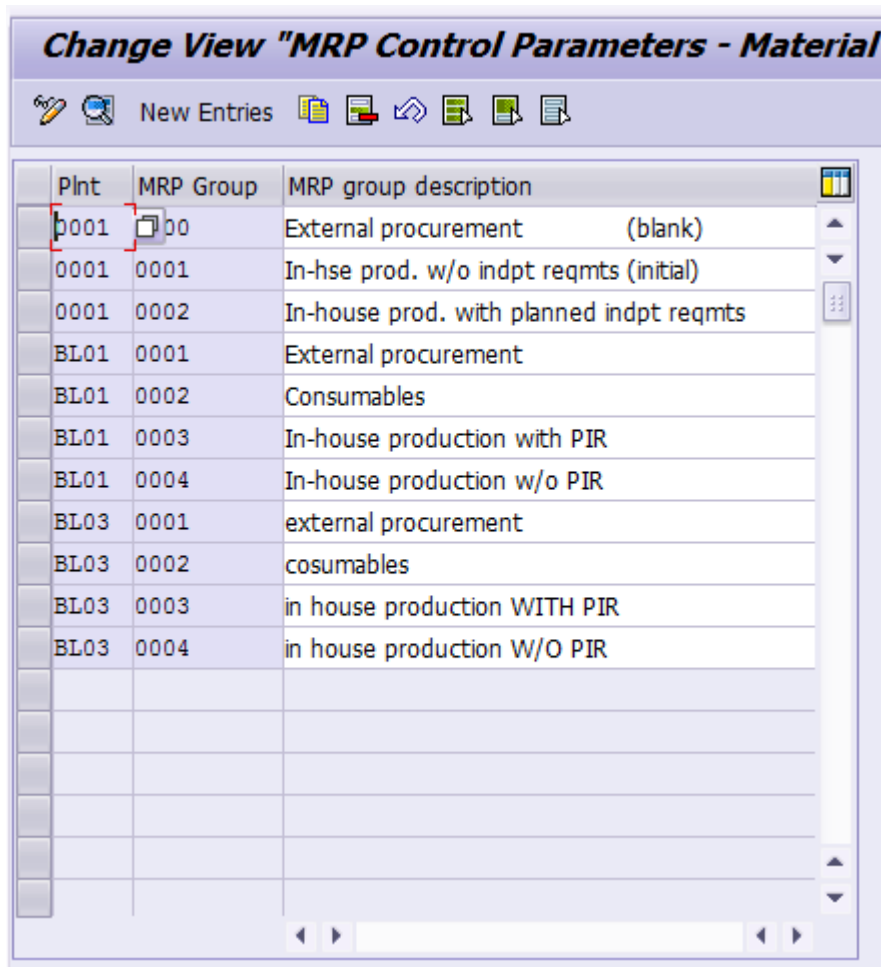
Change View "Strategy Group for MRP Group": Details

Plant: BL01 [Redacted]
 MRP group: 0001 External procurement
 Planning strategy group: 10 Make-to-stock production

Similarly,

MRP Group		Strategy Group
0002	:	10
0003	:	10
0004	:	20

Following MRP groups are defined for Blue Eagle



1.3 Planning

1.3.1 Define Storage location MRP per Plant

Transaction Code: SPRO

Menu Path: Production → Material Requirements Planning → Planning → Define Storage Location MRP per Plant

Here we can define the default values for storage location MRP. The indicator that one set here is proposed when creating a material master record for the storage locations maintained.

One has the following options for storage location MRP:

- Plan storage location separately
- Exclude storage location from MRP

Change View "Storage Location MRP": Overview



Plant

SLoc	Descr. of Storage Loc.	MRP Ind.	Description of MRP indicator
S1F	Finished Good		
S1M	Miscell. Stock		
S1P	Packing Material		
S1R	Raw Material		
S1T	Trading material		

Change View "Storage Location MRP": Overview



Plant

SLoc	Descr. of Storage Loc.	MRP Ind.	Description of MRP indicator
S1F	Finished Good		
S1M	Miscell. Stock		
S1P	Packing Material		
S1R	Raw Material		
S1T	Trading material		

Storage location MRP indicator (1) 3 Entries found



SLoc MRP indic...	Short Descript.
	Storage location stock also planned at plant level
1	Storage location stock excluded from MRP
2	Storage location stock planned separately

Position

1.4 Planning File Entries

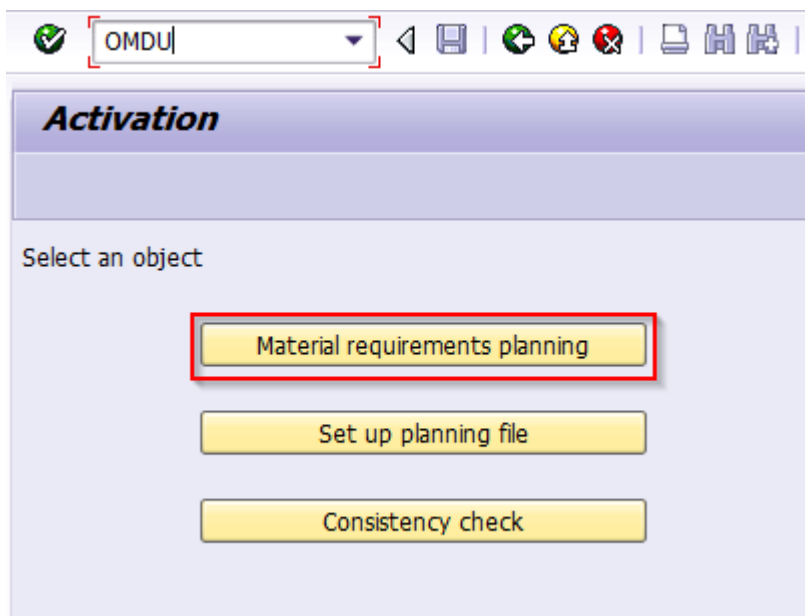
1.4.1 Activate MRP & Set Up Planning File

Transaction Code: OMDU

Activating MRP for the plant allows one to use the SAP MRP tool for the plant.

Menu Path: Production → Material Requirements Planning → Planning File Entries → Activate MRP & Set Up Planning File

Activate Material Requirements Planning





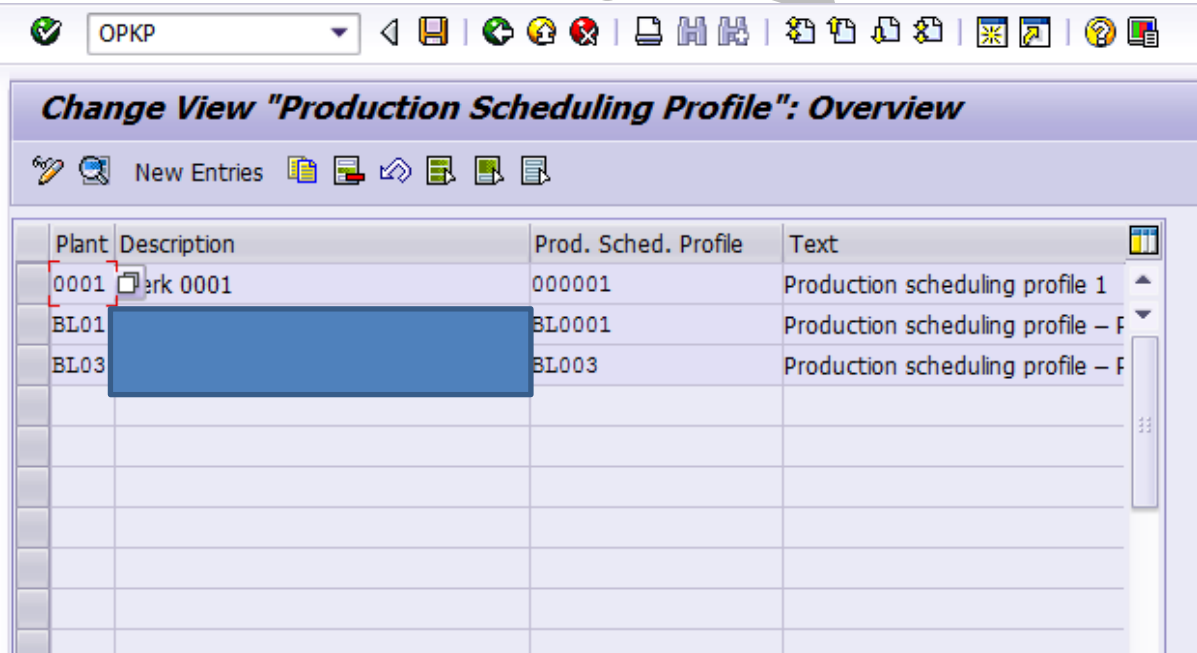
2 Define production scheduling profile

SAP offers Production scheduling profile as a standard profile to configure order controls. Such controls are material specific. The Profile is assigned to an header material for which you are creating an order.

SAP makes it easier for planners to have controls set at material level rather than keeping them at order level so that you can opt for different set of control for different kinds of producible materials.

Transaction Code: OPKP

Menu Path: Production → Master Data → Define production scheduling profile



The screenshot displays the SAP OPKP transaction interface. At the top, there is a toolbar with various icons and a dropdown menu set to 'OPKP'. Below the toolbar, the title bar reads 'Change View "Production Scheduling Profile": Overview'. Underneath the title bar is a sub-toolbar with icons and the text 'New Entries'. The main area contains a table with the following columns: Plant, Description, Prod. Sched. Profile, and Text. The table lists three entries: Plant 0001 with Description 'ark 0001' and Profile 000001; Plant BL01 with Profile BL0001; and Plant BL03 with Profile BL003. The text for the last two entries is partially obscured by a blue rectangular box.

Plant	Description	Prod. Sched. Profile	Text
0001	ark 0001	000001	Production scheduling profile 1
BL01		BL0001	Production scheduling profile – F
BL03		BL003	Production scheduling profile – F

Change View "Production Scheduling Profile": Details

New Entries

Plant

Prod. Sched. Profile Production scheduling profile – Plant 1

Automatic Actions

On Creation	On Release
<input type="checkbox"/> Release	<input type="checkbox"/> Execute Printing
<input checked="" type="checkbox"/> Document Links - Material	<input type="checkbox"/> Schedule Order
<input checked="" type="checkbox"/> Document Links - BOM	<input type="checkbox"/> Document Links - Material
	<input type="checkbox"/> Document Links - BOM
	<input type="checkbox"/> Create Control Instructions

Material Availability Check	Goods Receipt
<input checked="" type="checkbox"/> Confirm Available Partial Qty	<input type="checkbox"/> Automatic Goods Receipt

Capacity Planning

Leveling

Overall Profile SFC:Capacity availability check >= 3.0D

Availability Check

☒ Confirm Capacity
 ☐ Finite Scheduling

Confirmation	
<input type="checkbox"/> No Update of Yield Surplus	<input type="checkbox"/> No Update of Yield Deficit
<input type="checkbox"/> Adjust Quantities in Order to Actual Values	
Batch Management	
Automatic Batch Creation in the Order	1
Batch Classification	
<input type="checkbox"/> Extended classification	
<input checked="" type="checkbox"/> Always Batch Split	
Transport	
<input type="checkbox"/> Complete Transfer Requirement	<input type="checkbox"/> Confirmed Quantity for TR
WM Request	<input type="checkbox"/> No creation of transfer requirements on order release
<input type="checkbox"/> GI via Delivery	
<input type="checkbox"/> Kit to Stock in EWM	
Order Type	
Make-to-Stock Production	ZPP1 Standard production order for BL
Make-to-Order Production	ZPP1 Standard production order for BL
Engineer-to-Order Prodn	ZPP1 Standard production order for BL
Without Material	ZPP1 Standard production order for BL

Configuration Details

Parameters set as above for XXXXX requirement while preparing Order with the production scheduling profile as BL0001 with manual release of order and no auto GR.

This profile used use to specify that certain business transactions are carried out in parallel in a production order / process order (we can, for example, create and release an order at the same time, or release an order and print the shop papers), trigger an automatic goods receipt, specify an overall profile for capacity leveling.

Use:

The production scheduling profile is copied into the order during order creation.

2.1 Production Scheduler

The production scheduler is supposedly the person who manages the order and executes it in the shop floor. A production scheduler can be the shop floor supervisor. In many cases the MRP controller and the Production Scheduler is kept as the same.

Transaction Code: OPJ9

Follow Jatin tiwari

2.2.1 Define Scheduling Parameters for Production Orders

The following Order type Scheduling parameters help in scheduling the order. The scheduling parameters are set for the order type at the plant level for a production scheduler. If you want to use the Order type scheduling parameters across all the schedulers you should put a * (star) in the field while creating the configuration.

Menu Path: Production → Operations → Scheduling → Define Scheduling Parameters for Production Orders



Change View "Specify scheduling parameters": Details

 New Entries     

Plant

Order type

Prodn Superv.

Detailed Scheduling

SelID: Detailed ☐

☒ Scheduling

☒ Generate Capacity Reqs.

Rate-based scheduling

SelID:rate plng ☐

☐ Scheduling

☐ Generate capacity reqs.

Rough-cut scheduling

SelID:roughPlng ☐

☐ Scheduling

☐ Generate Capacity Reqs.

Adjust scheduling

Adjust Dates

Scheduling control for detailed scheduling

Scheduling Type

☒ Automatic Scheduling

Start in the Past ☐

☐ Automatic log

☐ Scheduling with breaks

☐ From production dates

☐ Shift Order

Requirements Date Determination for Components

Operation Segment

☐ Latest Staging Date

Reduction

Reduction type

Maximum reduction level

L1 L2 L3 L4 L5 L6

% reduction in floats

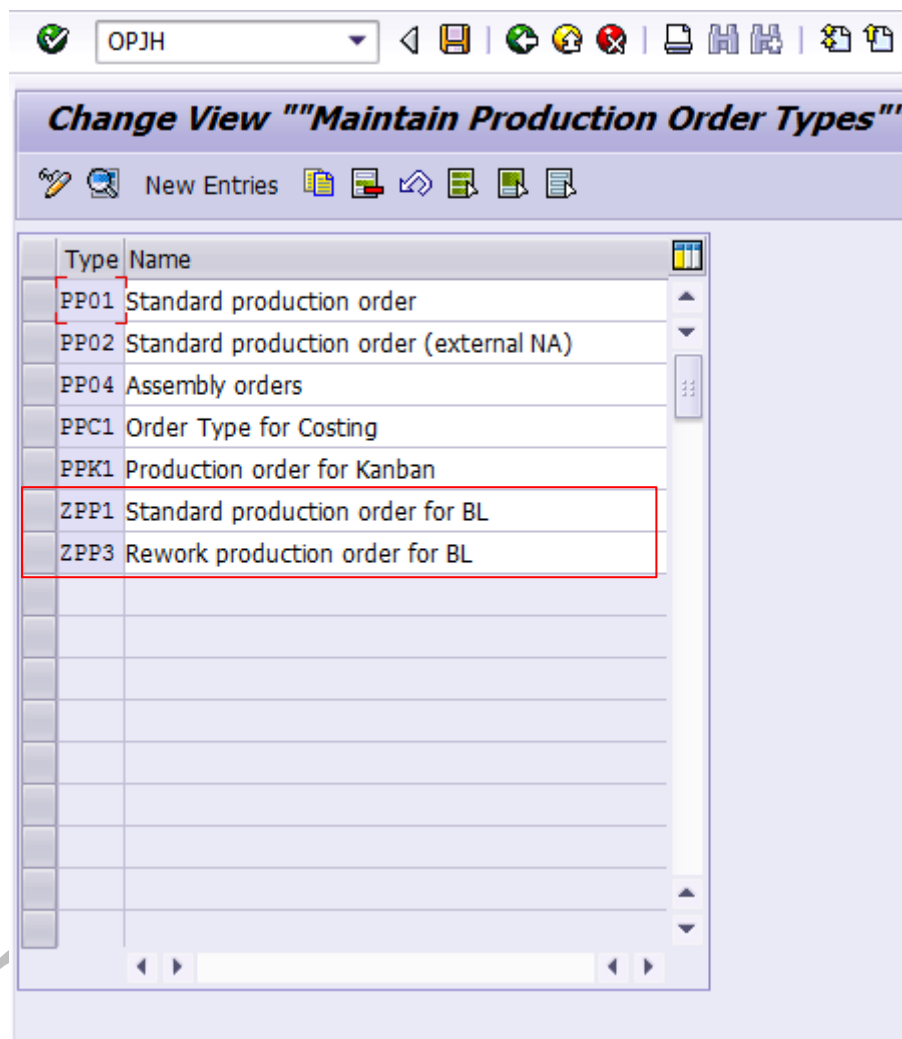
3 Shop Floor Control

3.1 Master Data

3.1.1 Define Order types

Transaction Code: OPJH

Menu Path: Production → Master Data → Order → Define Order Types



ZPP1 Order type is for Normal production

ZPP3 Order type is for Rework orders

Change View ""Maintain Production Order Types"": Details

 New Entries      

Order category 10

Order Type ZPP1 Standard production order for BL

Control indicator

CO Partner Update Semi-active

☐ Classification

☐ Commit. management

Reorganization

Residence Time 1

Residence Time 2

Cost controlling

Settlement profile PP01 Production order

Functional Area 0100 Production

☐ Coll.order with goods movement







Status management

StatusProfile Header PP000001 Status for Header

Opn status profile PP000002 Status for Operation

Number range general

Change View ""Maintain Production Order Types"": Details

New Entries      

Order category |

Order Type

Control indicator

CO Partner Update

☐ Classification

☐ Commit. management

Reorganization

Residence Time 1

Residence Time 2

Cost controlling

Settlement profile Production order

Functional Area Production

☐ Coll.order with goods movement

Status management

StatusProfile Header Rework

Oprtn status profile Status for Operation

Number range general

Configuration Details:

In this step one defines order types. An order type contains control information that need for managing orders. One has to assign every order to an order type.

Status management: An order can go through several processing statuses. Among other things, the status controls which business transactions are allowed in the order.

3.1.2 Define Order Type Dependent Parameters

Transaction Code: OPL8

Menu Path: Production → Master Data → Order → Define Order Type Dependent Parameters

The screenshot shows the SAP OPL8 transaction interface. At the top, there is a toolbar with icons for navigation and actions. Below the toolbar, the title bar reads "Change View 'Order Type-Dependent Parameters: Overview'". Underneath the title bar, there is a sub-toolbar with icons for "New Entries" and other functions. The main area contains a table with the following data:

Plant	Name	Ord...	Description
0001	Werk 0001	PP01	Standard production order
0001	Werk 0001	PP02	Standard production order (e
0001	Werk 0001	PP04	Assembly orders
0001	Werk 0001	PPC1	Order Type for Costing
0001	Werk 0001	PPK1	Production order for Kanban
BL01		ZPP1	Standard production order for
BL01		ZPP3	Rework production order for I
BL03		ZPP3	Rework production order for I

Details Overview: Planning Tab - Order Type: ZPP1

Change View "Order Type-Dependent Parameters: Overview": Details

New Entries

Plant: BL01

Order Type: ZPP1 Standard production order for BL

Planning Implementation Cost Accounting Display Profiles

Master Data

Production Version

Production Version ☒ Automatic selection of production version

Routing

Application: P AltTaskListApplic.: ☐

Selection ID: 01 Routing Selection: 3

Sequence Exchange: 2 ☒ Alternative Sequences ☐ Check Op. Details

Routing Type: N Routing ☐ Routing Text

Operation

☐ Entry tool

Operation Increment: 0010

Reduction Strategy: ☐

Bill of Material

BOM Application: PP01 Production - General

Batch Determination

Search Procedure: C00001 ☒ Check batch

General

Assignment

Substitute MRP Ctrler: ☐

Substitute Scheduler: ☐

Purchase Requisitions

Reservation/Purch.Req.: 3 ☒ Collective PR

Quality Inspection

Inspection Type:

Details Overview: Implementation Tab - Order Type: ZPP1

The screenshot shows the 'New Entries: Details of Added Entries' window in SAP. The 'Implementation' tab is selected. At the top, 'Plant' is set to 'BL01' and 'Order Type' is set to 'ZPP1'. Below the tabs, there are three main sections: 'Status Change Documents', 'Shop Floor Information System', and 'Documentation of Goods Movements'. In the 'Status Change Documents' section, 'For Order Header' is checked. In the 'Shop Floor Information System' section, 'Update' is checked with 'I01' in the adjacent field, and the 'Release Versions' sub-section has 'Header', 'Item', and 'Operation' all unchecked. In the 'Documentation of Goods Movements' section, 'GR for Purchase Order', 'GR for Production Order', 'Planned Goods Issue', and 'Unplanned Goods Issue' are all checked.

New Entries: Details of Added Entries			
Plant	BL01		
Order Type	ZPP1		
Planning	Implementation	Cost Accounting	Display Profiles
Status Change Documents			
<input checked="" type="checkbox"/> For Order Header			
<input type="checkbox"/> For Operation			
<input type="checkbox"/> For Material			
<input type="checkbox"/> For Production Resource/Tool			
Shop Floor Information System			
<input checked="" type="checkbox"/> Update		I01	
Release Versions			
<input type="checkbox"/> Header		<input type="checkbox"/> Item	<input type="checkbox"/> Operation
Documentation of Goods Movements			
<input checked="" type="checkbox"/> GR for Purchase Order			
<input checked="" type="checkbox"/> GR for Production Order			
<input checked="" type="checkbox"/> Planned Goods Issue			
<input checked="" type="checkbox"/> Unplanned Goods Issue			

Implementation tab:

Status change documents

Here, one defines whether one wants change documents to be written if a status change occurs. One also defines the level at which the change documents are to be written. Status change documents can also be defined independently of each other, at each of these four levels.

Shop Floor Information System

One can specify, for example, whether order data is to be stored in the Shop Floor Information System. One can carry out reports using this system, for example, for materials, orders and work centers.

Documentation of goods movements

Here, one can specify that goods movements are to be documented with reference to an order. Then one can display goods movements, for example, using the order information system.

Details Overview: Controlling Tab - Order Type: ZPP1

The screenshot shows the 'New Entries: Details of Added Entries' dialog box in SAP, with the 'Controlling' tab selected. The 'Plant' is set to 'BL01' and the 'Order Type' is 'ZPP1'. The 'Cost Accounting' sub-tab is active, showing fields for 'Cstg variant planned' (PPP1), 'Cstg variant actual' (PPP2), 'Results Analysis Key' (000003), and 'Planned Cost Calcul.' (2 Determine Planned Costs When Saving). There are checkboxes for 'Cost Collector' and 'Net Order Price'. Below this is the 'Distribution Rule' section with a 'Default Rule' set to 'PP1'.

New Entries: Details of Added Entries	
Plant	BL01
Order Type	ZPP1
Planning Implementation Cost Accounting Display Profiles	
Cost Accounting	
Cstg variant planned	PPP1 <input type="checkbox"/>
Cstg variant actual	PPP2
Results Analysis Key	000003
Planned Cost Calcul.	2 Determine Planned Costs When Saving <input type="checkbox"/> Net Order Price
Distribution Rule	
Default Rule	PP1

Controlling tab:

Controlling: Here, one defines the parameters relevant to controlling, such as, for example, costing variants for planned and actual costs and a results analysis key.

Distribution rule: Default (distribution) rule defines an automatically generated distribution rule for CO settlement.

Details Overview: Display Profiles - Order Type: ZPP1

Change View "Order Type-Dependent Parameters: Overview": Details

New Entries

Plant: BL01

Order Type: ZPP1 Standard production order for BL

Planning Implementation Cost Accounting **Display Profiles**

Collective order display

Graphics Profile: 000001 I01

Graphic

Group: PP Display orders

Name: STANDARD

Index: 2

Missing Parts List

ProfMissPrtsLstOrdNo: 000001 Profile 1 Avail.check for pln/prod.order

Missing Parts Prof.: 000001 Profile 1 Avail.check for pln/prod.order

Display Profile tab:

Display profiles Graphic: Here, one defines parameters for displaying graphics of operations and sequences in the order.

Missing parts list: defines how the missing parts list is to be displayed.

Details Overview: Planning Tab - Order Type: ZPP3

Change View "Order Type-Dependent Parameters: Overview": Details

New Entries

Plant: BL01

Order Type: ZPP3 Rework production order for BL

Planning | Implementation | Cost Accounting | Display Profiles

Master Data

Production Version

Production Version: 1 ☐ Manual selection of production version

Routing

Application: P AltTaskListApplic.: ☐

Selection ID: 01 Routing Selection: 6

Sequence Exchange: 2 ☐ Alternative Sequences ☐ Check Op. Details

Routing Type: S Reference Operation Set ☐ Routing Text

Operation

☐ Entry tool

Operation Increment: 0010

Reduction Strategy: ☐

Bill of Material

BOM Application: RWRK REWORK

Batch Determination

Search Procedure: ☐ ☐ Check batch

General

Assignment

Substitute MRP Ctrler: ☐

Substitute Scheduler: ☐

Purchase Requisitions

Reservation/Purch.Req.: 3 ☐ Collective PR

Quality Inspection

Inspection Type: ☐

Planning tab:

Master data

Here, one defines the data that influences master data selection or order master data maintenance:

The task list application is predefined as 'N'. However, one can also specify an additional task list application.

Routing

The routing selection ID defines, for example, the ranking order for routing selection.

Routing selection defines whether routings are to be selected and if so, how (manually or automatically) and whether reference operation sets can also be selected.

The task list type defines which routing type is permitted for production orders.

Operation

Operation detail check defines whether operation detail screens are to be checked when the operations are transferred to the order.

Routing text defines that the text from the routing header is copied into the order.

BOM application defines how the BOM alternatives are to be automatically selected.

Search procedure defines how batch determination is to take place.

General

Substitute MRP controller/substitute production scheduler are proposed when one create production orders if an MRP controller or production scheduler are not specified in the material master, or if there is no reference to material.







Reservation/Purchase Req. specifies whether certain order objects (operation, components) are relevant to MRP.

Collective purchase requisition, Enables collective purchase requisition per order for externally processed operations or non-stock items.

Inspection type defines how a quality inspection is to be carried out.

Details Overview: Implementation Tab - Order Type: ZPP3

Change View "Order Type-Dependent Parameters: Overview": Detail

New Entries      

Planning Implementation Cost Accounting Display Profiles

Status Change Documents

☒ For Order Header

☐ For Operation

☐ For Material

☐ For Production Resource/Tool

Shop Floor Information System

☒ Update I01

Release Versions

☐ Header ☐ Item ☐ Operation

Documentation of Goods Movements

☒ GR for Purchase Order

☒ GR for Production Order

☒ Planned Goods Issue

☒ Unplanned Goods Issue

PDC

☐ PDC Active

Workflow

☒ Workflow for Purchase Order Change

Implementation tab:

Status change documents

Here, one defines whether one want change documents to be written if a status change occurs. One also define the level at which the change documents are to be written. Status change documents can also be defined independently of each other, at each of these four levels.

Shop Floor Information System







One can specify, for example, whether order data is to be stored in the Shop Floor Information System. One can carry out reports using this system, for example, for materials, orders and work centers.

Documentation of goods movements

Here, one can specify that goods movements are to be documented with reference to an order. Then one can display goods movements, for example, using the order information system.

Details Overview: Controlling Tab - Order Type: ZPP3

Change View "Order Type-Dependent Parameters: Overview": Details

New Entries      

Planning Implementation **Cost Accounting** Display Profiles

Cost Accounting







Cstg variant planned	PPP1	<input type="checkbox"/> Production Order: Planned	<input type="checkbox"/> Cost Collector
Cstg variant actual	PPP2	Production Order: Actual	
Results Analysis Key	000003	WIP Calculation at Target Costs	
Planned Cost Calcul.	2 Determine Planned Costs When Saving	<input type="checkbox"/> Net Order Price	

Distribution Rule

Default Rule	PP1 Production Mat.Full settlement
--------------	------------------------------------

Details Overview: Display Profiles Tab: ZPP3

Change View "Order Type-Dependent Parameters: Overview": Details

New Entries      

Planning Implementation Cost Accounting **Display Profiles**

Collective order display

Graphics Profile	000001	I01
------------------	--------	-----

Graphic

Group	PP	Display orders
Name	STANDARD	
Index	2	

Missing Parts List

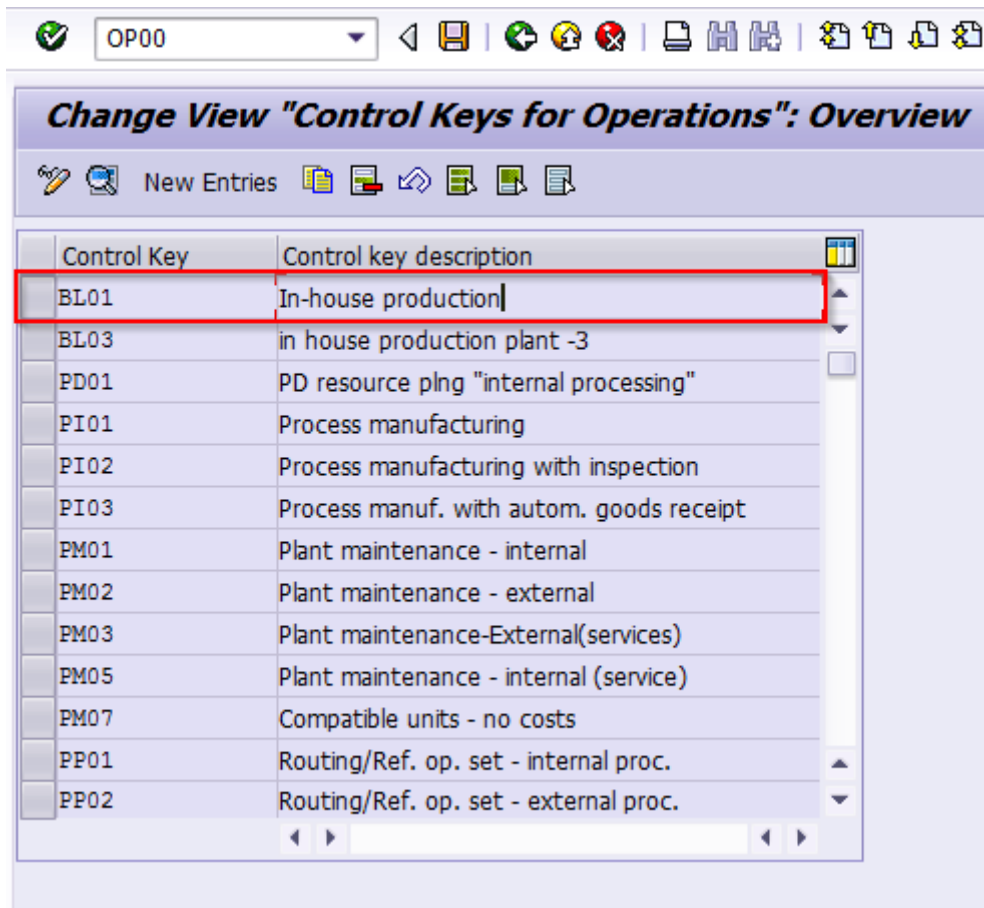
ProfMissPrtsLstOrdNo	000001	Profile 1 Avail.check for pln/prod.order
Missing Parts Prof.	000001	Profile 1 Avail.check for pln/prod.order

Jatin tiwari

4 Control key

T Code: OP00

Control keys are normally pulled in from the work center, if you have entered a default control key there. *Control keys are really important keys in SAP PP.*



Change View "Control Keys for Operations": Overview

New Entries

Control Key	Control key description
BL01	In-house production
BL03	in house production plant -3
PD01	PD resource plng "internal processing"
PI01	Process manufacturing
PI02	Process manufacturing with inspection
PI03	Process manuf. with autom. goods receipt
PM01	Plant maintenance - internal
PM02	Plant maintenance - external
PM03	Plant maintenance-External(services)
PM05	Plant maintenance - internal (service)
PM07	Compatible units - no costs
PP01	Routing/Ref. op. set - internal proc.
PP02	Routing/Ref. op. set - external proc.

Change View "Control Keys for Operations": Details

New Entries

Control key: BL01 In-house production

Indicators

☒ Scheduling
☒ Det. Cap. Reqmnts
☐ Insp.char. required
☐ Aut. goods receipt
☒ Print time tickets
☐ Rework
☐ External processing
☐ Confirmations








☒ Print confirmation
☒ Print
☒ Cost
☐ Sched.external op.
☐ Internally processed operation
☐ Confirmation required

Call Up Long Text

5 Availability Check Parameter (OPJK)

When you configure the Order availability checks at the point of Order creation or Order release the following controls are available:

Change View "Order control": Details

 New Entries      

Plant	BL01	
Order Type	ZPP1	
Availability Check	1	Check availability during order creation

Material availability

☐ No check
☒ Check material availability when saving order
Checking Rule PP checking rule
Component Check Type ☐ ATP check
Collect. conversion User decides on creation if material is missing

PRT availability



☒ No check
Checking Rule
Collect. conversion

Capacity availability

☐ No check
Overall profile SFC:Capacity availability check >= 3.0D
Collect. conversion User decides on creation if capacity is missing

Change View "Order control": Details


 New Entries      

Plant 
Order Type 
Availability Check Check availability during order release

Material availability

☐ No check
☐ Status check
☒ Check material availability when saving order
Checking Rule PP checking rule
Component Check Type ATP check
Release material No release if parts are missing

PRT availability

☒ No check
Checking Rule
PRT release 

Capacity availability

☐ No check
Overall profile SFC:Capacity availability check >= 3.0D
Release Order No release if capacity is insufficient

Batch assignment

Release material Release by User Decision if Batches are Missing

Change View "Order control": Details

 New Entries      

Plant


Order Type

Availability Check Check availability during order creation

Material availability

☐ No check

☒ Check material availability when saving order

Checking Rule  checking rule

Component Check Type ☐ ATP check

Collect. conversion

PRT availability

☒ No check

Checking Rule

Collect. conversion

Capacity availability



☐ No check

Overall profile SFC:Capacity availability check >= 3.0D


Collect. conversion User decides on creation if capacity is missing

Change View "Order control": Details

 New Entries     

Plant 
Order Type 
Availability Check Check availability during order release

Material availability

☒ No check
☐ Status check
☐ Check material availability when saving order
Checking Rule  checking rule
Component Check Type ATP check
Release material User decides on release if parts are missing

PRT availability

☒ No check
Checking Rule Status check
PRT release User decides to release when there's no PRT

Capacity availability

☒ No check
Overall profile SFC:Capacity availability check >= 3.0D
Release Order Release by user decision if capacity is insufficient

Batch assignment

Release material

6 Define Confirmation Parameters

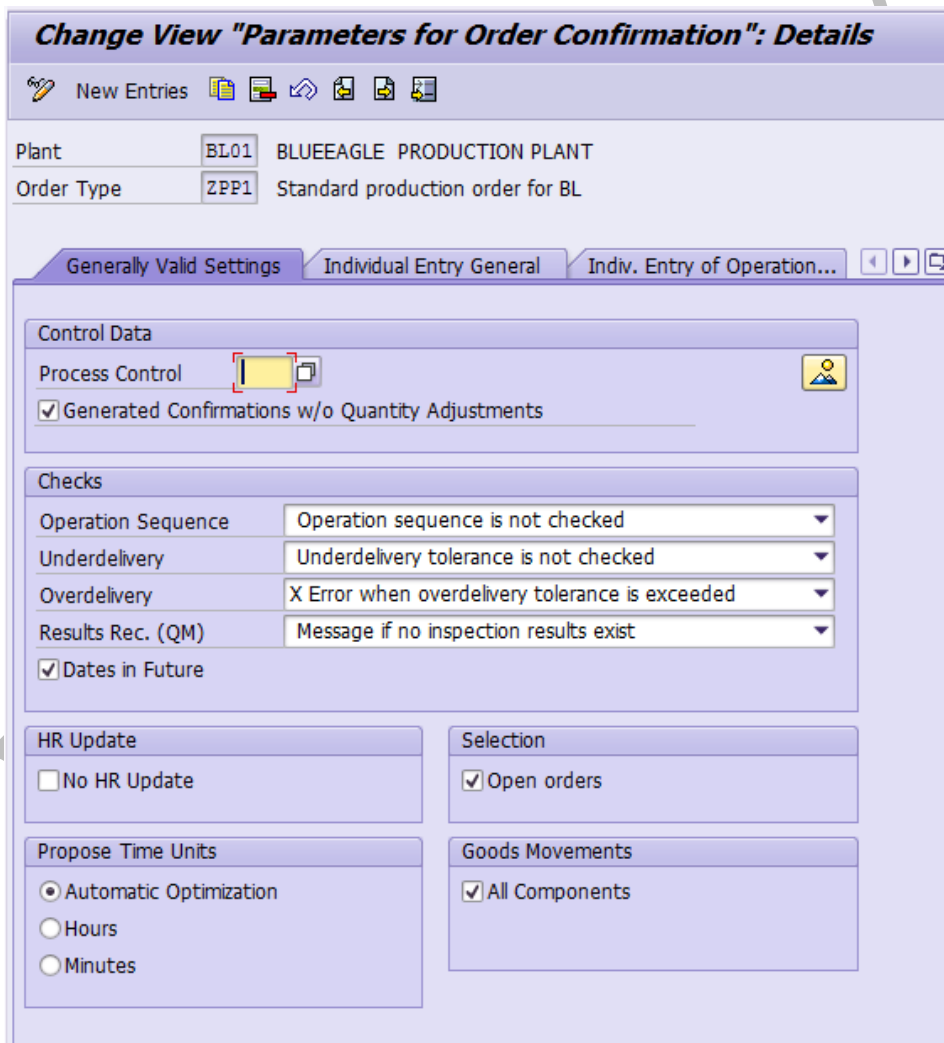
Confirmations parameters are to be set for orders types so as to allow confirmations as per the client's requirements.

Confirmations in SAP PP refer to booking the completion of production quantities at each operation (partial completion or final completion). Confirmation is not receiving goods in stock; it is only about declaration production at each operation and in turn booking cost incurred in operational activities (in the background).

The method or manner in which these confirmations would happen is configured here.

Transaction Code: OPK4

Menu Path: Production → Operations → Confirmation → Define Confirmation Parameters



Change View "Parameters for Order Confirmation": Details

New Entries

Plant: BL01 BLUEEAGLE PRODUCTION PLANT
Order Type: ZPP1 Standard production order for BL

Generally Valid Settings | Individual Entry General | Indiv. Entry of Operation...

Control Data

Process Control: [Icon] [Icon]

☒ Generated Confirmations w/o Quantity Adjustments

Checks

Operation Sequence: Operation sequence is not checked
Underdelivery: Underdelivery tolerance is not checked
Overdelivery: X Error when overdelivery tolerance is exceeded
Results Rec. (QM): Message if no inspection results exist
☒ Dates in Future

HR Update

☐ No HR Update

Propose Time Units

☒ Automatic Optimization
☐ Hours
☐ Minutes

Selection

☒ Open orders

Goods Movements

☒ All Components

Change View "Parameters for Order Confirmation": Details

New Entries

Plant BLUEEAGLE PRODUCTION PLANT
 Order Type Standard production order for BL

Generally Valid Settings Individual Entry General Indiv. Entry of Operation...

Confirmation Function Excluding Single-Screen Entry

Confirmation Type

☐ Clear Open Reservations

Error Handling/Logs

☐ Actual Costs ☐ Termination for Incorrect Actual Costs
☒ Goods Movements ☐ Termination for Incorrect Goods Movements

Change View "Parameters for Order Confirmation": Details

New Entries

Plant BLUEEAGLE PRODUCTION PLANT
 Order Type Standard production order for BL

Individual Entry General Indiv. Entry of Operation w. Init. Screen

Quantities

☒ Propose
☒ Display Confirmed Quantities
☒ Display Defaults

Dates

☒ Propose Dates
☒ Display Confirmed Dates
☒ Display Defaults

Screen Control Time Ticket

☒ Quantities/Activities
☐ Actual Data

Services

☒ Propose
☒ Display Confirmed Activities
☒ Display Defaults

HR Data

☒ Display Defaults

Selection

☐ Incl. Finally Confirmed Operations
☒ Incl. Confirmable Operations