



SAP PP (Production Planning) Configuration



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SAP PP Configuration:

SAP PP (Production Planning) configuration refers to the process of setting up and customizing the SAP PP module to meet the specific needs and requirements of a company's production planning and manufacturing processes. SAP PP is a part of the SAP ERP (Enterprise Resource Planning) system and is designed to help organizations plan, manage, and control their manufacturing operations effectively.

Configuration in SAP PP involves a series of steps that are typically performed by SAP consultants or system administrators with expertise in SAP configuration. Here are some of the key aspects of SAP PP configuration:

- **Master Data Configuration:** This involves setting up master data such as materials, bill of materials (BOM), work centers, and routing information. Master data is the foundation for production planning and execution in SAP PP.
- **Production Planning Configuration:** Configure the production planning strategies and parameters that determine how the system plans production orders, including make-to-stock, make-to-order, and repetitive manufacturing.
- **Demand Management:** Configure demand management settings to plan for customer demands and sales forecasts. This includes defining planning strategies, forecasting models, and consumption-based planning.
- **Production Order Configuration:** Customize production order types, order confirmation settings, order release procedures, and production order profiles to align with the company's manufacturing processes.
- **Capacity Planning Configuration:** Set up capacity planning parameters to ensure that production is scheduled based on the available resources and capacity of work centers.
- **Material Requirements Planning (MRP) Configuration:** Configure MRP settings to determine how materials are planned and replenished based on demand, safety stock, and lead times.
- **Shop Floor Control Configuration:** Customize settings for shop floor control activities, including order scheduling, order tracking, and order reporting.
- **Variant Configuration:** If applicable, configure variant configuration to handle products with multiple configurable options and variants.
- **Integration with Other SAP Modules:** Ensure that SAP PP is properly integrated with other SAP modules like SAP MM (Materials Management), SAP SD (Sales and Distribution), and SAP WM (Warehouse Management) to facilitate seamless data flow and business processes.
- **User Roles and Authorizations:** Define user roles and authorizations to control access to different SAP PP functions and data.

Steps:

- Define Material Types Allowed for BOM Header: Define the material types in conjunction with BOM usages that are allowed for the BOM header material. You make these settings; you can make a generic entry in the fields for the BOM usage and the material type.

Path: SAP Customizing Implementation Guide > Production > Basic Data > Bill of Material > General Data > Define Material Types Allowed for BOM Header

Change View "Material Types Allowed in BOM Header"

New Entries

BOM Usg	Mat type headr	Allowed
*	INTR	-
1	*	+
2	*	+
3	*	+
4	*	+
5	*	+
6	*	+
7	*	+
B	*	+
S	*	+
T	*	+
U	*	+
V	*	+
Y	*	+

- Define Allowed Material Types for BOM Items: Define the material types in conjunction with BOM usages that are allowed for the BOM items. You can make a generic entry in the fields "BOM usg", "Mat type headr", and "Mtype BOM item".

Path: SAP Customizing Implementation Guide > Production > Basic Data > Bill of Material > Item Data > Define Allowed Material Types for BOM Items

Change View "Material Types Allowed in BOM Items"








New Entries 

BOM Usg	Mat type headr	Mtype BOM item	Allowed
*		*	+
1	*	*	+
2	*	*	+
3	*	*	+
4		ROH	+
4	HIBE	HIBE	+
4	IBAU	ERSA	+
4	IBAU	ROH	+
5	*	*	+
6	*	*	+
7	*	*	+
B	*	*	+
S	*	*	+
T	*	*	+
U	*	*	+

- o Person Responsible for Work Center: Person responsible in work center is a person who will maintain (Create, Change work center) in SAP based upon the changes happening on the Shop floor.

Path: SAP Customizing Implementation Guide > Production > Basic Data > Master Data > Work Center > General Data > Determine Person Responsible

Change View "Person Responsible for Work Center": Overview

New Entries       

Pint	Responsible	Person responsible for work center	
0001	001	SAP Beispiel: Verantwortlicher 001	▲
0001	A	Arbeitsplaner A	▼
0003	001	SAP Beispiel: Verantwortlicher 001	□
0003	A	Arbeitsplaner A	
1000	001	SAP Beispiel: Verantwortlicher 001	
1000	A	Arbeitsplaner A	
1010	001	Work center supervisor	
1010	A1	A1	
1010	AGR	AG Responsible	
1010	TER	Terna	

- Parameters: Define parameters, which you then assign to the standard value keys. You can assign any meaning to these standard values. Please keep in mind that the meaning of the fields is specified by the key words.

Path: SAP Customizing Implementation Guide > Production > Basic Data > Master Data > Work Center > General Data > Standard Value > Define Parameters

Change View "Parameters": Overview

New Entries

Param...	Short key word	Long key word
PC_P00	GR	Goods Receipt
PC_P01	Rqmnt qty	Requirement quantity
PC_P02	Deductions	Deductions
PC_P03	Return	Return
PC_P04	Scrap	Scrap
PC_P05	GR co-prod.	Goods rept. co-prod.
PC_P06	Other	Other
PC_P07	Other	Other
PC_P08	Other	Other
PC_P09	Other	Other
PC_P10	Other	Other
SAPC00	Duration	Duration
SAPC01	Dose	Dose
SAPC02	Process	Process
SAPC03	Empty	Empty
SAPC04	Duration	Fixed duration

- o Standard Value Keys: The standard value key determines the meaning of the six standard values in the operation. The SAP System assigns a parameter ID to the standard values of the operation and the work in network activities.

Path: SAP Customizing Implementation Guide > Production > Basic Data > Master Data > Work Center > General Data > Standard Value > Define Standard Value Key

Change View "Standard Value Key Formula": O

New Entries

Stand...	Text for the std value key
SAP0	No standard values
SAP1	Normal production
SAP2	Variable production
SAP3	Production line planning
SAP4	Process manufacturing
SAP5	Cont.prod. (valued a./non-val)
SAP6	Process manufacturing(extend.)

- o Define control key: The Control Key you can define Business functions to be carried out with operation.

Path: SAP Customizing Implementation Guide > Production > Basic Data > Master Data > Work Center > General Data > Standard Value > Define Standard Value Key

Change View "Control Keys for Operations": Overview

New Entries

Control Key	Control Key Description
PD01	PD resource plng "internal processing"
PE01	No Auto GR, Cost, Sched, Print , Conf, Rew
PI01	Process manufacturing
PI02	Process manufacturing with inspection
PI03	Process manuf. with autom. goods receipt
PM01	Plant maintenance - internal
PM02	Plant maintenance - external

- o Define Formulas for Work Centers: Create the formulas for work centers that you want to use, for example, for scheduling or costing.

Path: SAP Customizing Implementation Guide > Production > Basic Data > Master Data > Work Center > Capacity Planning > Work Center Formulas > Define formula parameters for work centers

Change View "Formula Definition": Details

New Entries:

Formula key:

Formula

Indicators

Generate PRT Allowed For Reqmts.
 Allowed for Calculation Allowed for Scheduling
 Work Center for Capacity Reqmts.

Search Fld. for Param.

Parameter:

- MRP Type: MRP type determines whether and how the material is planned. This is maintained for each material at plant level.

Path: SAP Customizing Implementation Guide > Production > Material Requirements Planning > Master Data > Check MRP Types

MRP Type	MRP Type Description
D1	Demand-Driven Replenishment, fixing type -1-
M0	MPS, fixing type -0-
M1	MPS, fixing type -1-
M2	MPS, fixing type -2-
M3	MPS, fixing type -3-
M4	MPS, fixing type -4-
ND	No planning
P1	Forecast Consumption, Auto Firming, New Ords after PTF
P2	Forecast Consumption, Auto Firming, No New Ords in PTF
P3	Forecast Consumption, Manual Firming, New Ords after PTF
P4	Forecast Consumption, Manual Firming, No New Ords in PTF
PD	MRP
R1	Time-phased planning
R2	Time-phased w.auto.reord.point
RE	Replenishment plnd externally
RF	Replenish with dyn.TargetStock
RP	Replenishment
RR	

- MRP Controller: In this step, we define a number that is assigned to the MRP controller. The MRP controller is a person or a group of persons responsible for monitoring material availability. We can use the number entered here, for example, to select the planning results per MRP controller. Every material that is relevant to the planning run must be assigned an MRP controller number in the material master record.

Path: SAP Customizing Implementation Guide > Production > Material Requirements Planning > Master Data > Define MRP Controllers

Change View "MRP Controllers": Overview

New Entries

Plnt	Name 1	MRP Cont.	MRP controller name
0001	Divisione 0001	001	PERSON 1
0003	Plant 0003 (is-ht-sw)	001	PERSON 1

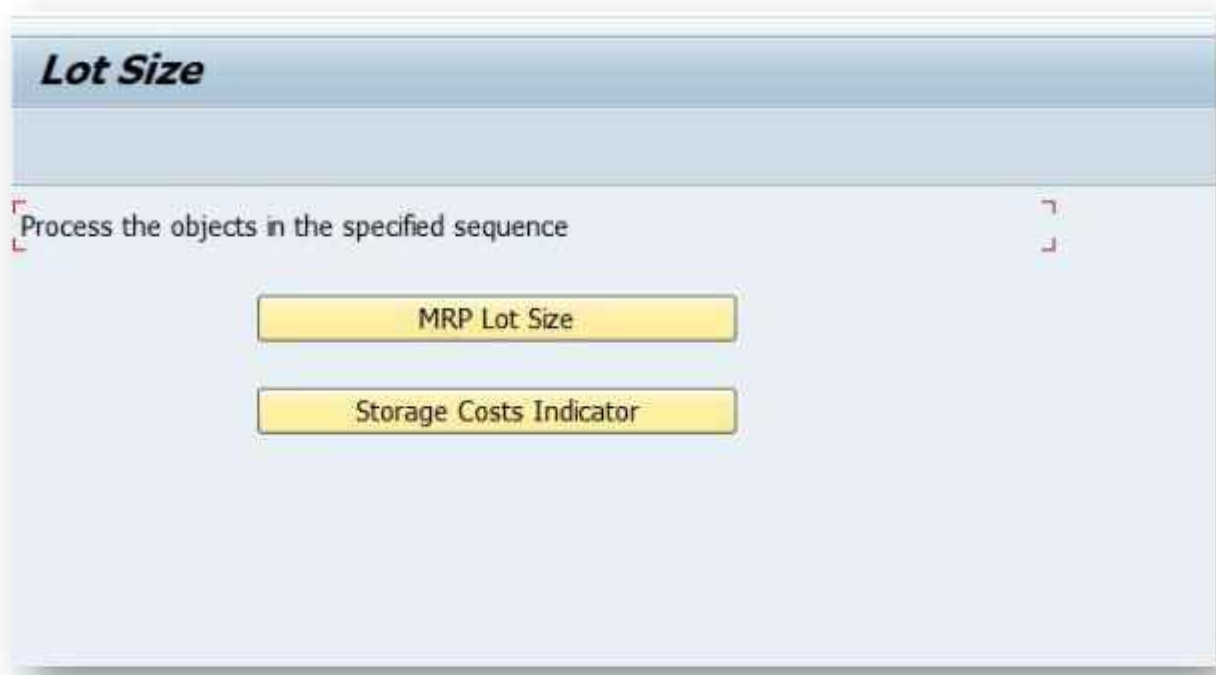
- MRP Groups: MRP groups are used when the plant division for planning is not enough for the division of the different materials MRP requirements. You assign different groups according to the requirements to run MRP (different Settings). These settings will be taken in account when you run MRP for single item or total planning.

Path: SAP Customizing Implementation Guide > Material Management > Consumption-Based Planning > MRP Groups > Carry Out Overall Maintenance of MRP Groups



- Lot Size Procedure: The system uses lot-sizing procedure within materials planning to calculate the quantity to be procured or produced.

Path: SAP Customizing Implementation Guide > Production>Material Requirement Planning> Planning> Lot-Size Calculation> Check Lot Sizing Procedure



- Scheduling Margin Key: The system uses this key to determine the floats required for scheduling an order. The key is maintained for the material at plant level.

Path: SAP Customizing Implementation Guide > Production> Material Requirement Planning> Planning> Scheduling and Capacity Parameters> Define Floats (Schedule Margin Key)

Change View "Floats for Scheduling": Overview

New Entries

Plnt	Name 1	M...	Op. ...	Fl Bef.	Fl After	Rel. Per.
0001	Divisione 0001	000				
0001	Divisione 0001	001	10	2	1	5
0003	Plant 0003 (s-ht-sw)	000				
0003	Plant 0003 (s-ht-sw)	001	10	2	1	5

- Order Types: The order type relates to the production orders that are created.

Path: SAP Customizing Implementation Guide > Production>Shop Floor Control> Master Data> Order> Define Order types

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

New Entries

Type	Name	N..
PP01	Standard production order	01
PP02	Standard production order (external NA)	02
PP04	Assembly orders	01
PPC1	Order Type for Costing	01
PPK1	Production order for Kanban	01

Order-Type-Dependent Parameters: Parameters that are valid for each order type and plant. Here, you define the data that influences master data selection or order master data maintenance like BOM and Routing selection, documents of goods movements, costing variants and RA keys.

Path: SAP Customizing Implementation Guide > Production>Shop Floor Control> Master Data> Order> Define Order-Type-Dependent Parameters

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

New Entries

Plant	Name	Orde...	Description
0001	Divisione 0001	PP01	Standard production order
0001	Divisione 0001	PP02	Standard production order (external f
0001	Divisione 0001	PP04	Assembly orders
0001	Divisione 0001	PPC1	Order Type for Costing
0001	Divisione 0001	PPK1	Production order for Kanban
0003	Plant 0003 (is-ht-sw)	PP01	Standard production order
0003	Plant 0003 (is-ht-sw)	PP02	Standard production order (external f
0003	Plant 0003 (is-ht-sw)	PP04	Assembly orders
0003	Plant 0003 (is-ht-sw)	PPC1	Order Type for Costing
0003	Plant 0003 (is-ht-sw)	PPK1	Production order for Kanban

Planning Tab:

Production versions:

This setting allows you to decide whether the production versions should be selected manually in the order or it should be selected automatically depending upon the validity dates or the lot sizes.

Selection ID:

The selection ID mentioned here allows the system to prioritize the selection of Routing/Recipe types for the order. Routing/Recipe selection is configured for automatic selection of Routings/Recipe in the orders.

Task List type:

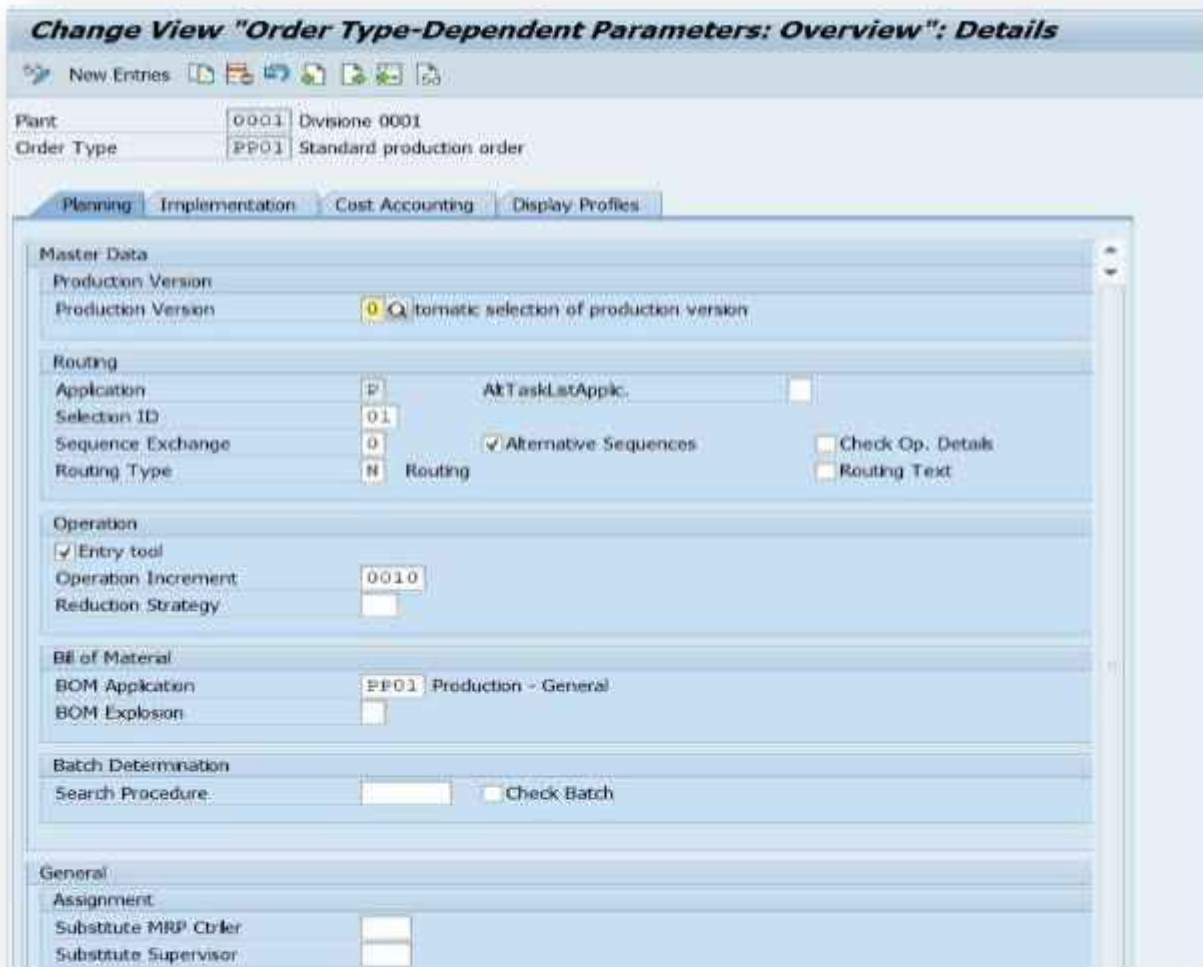
You can also select the task list type that you mandatorily want to be selected in the order.

Alternative Sequences Can be Transferred:

If you select this indicator, it is possible to transfer the Alternative sequences available in the task list, to the order. This indicator works together with the possibility of sequence exchanges.

Routing Selection:

This setting governs the selection method of Routings in the Order and not the selection of routing types in the order.



Implementation Tab:

The Second View stresses more on passing information of the order to the database information systems. It is not harmful if you just tick mark on the indicators.

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

New Entries

Plant: 0001 Division: 0001
Order Type: PPO1 Standard production order

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
- GR for WIP Batch

PDC

PDC Active Integration MES MES Integration Controlled via Data Replicatio

Workflow

- Workflow for Purchase Order Change

WIP Batch

- Post Goods Movement for WIP Batch

Costing Tab:

Configured by the SAP CO consultants and it deals with the SAP controlling aspects related to costing of the order and the maintaining the cost sheets.

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

New Entries [Icons]

Plant: 0001 Division 0001
Order Type: PP01 Standard production order

Planning | Implementation | **Cost Accounting** | Display Profiles

Cost Accounting

Planned Costs Costin	PPP1	Production Order: Planned	<input type="checkbox"/> Cost Collector
Actual Costs Costing	PPP2	Production Order: Actual	
Results Analysis Key	000002	WIP Calculation at Actual Costs	
Planned Cost Calcul.		Determine Planned Costs When Saving	<input type="checkbox"/> Net Order Price


Distribution Rule

Default Rule	PP1	Production Mat.Full settlement
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Display Profile Tab:

The final tab is the Display Profile tab that wants you to enter the reporting profiles for collective orders and missing part list. You can as well keep the standard profiles here.

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

New Entries 

Plant Divisione 0001
 Order Type Standard production order

Planning Implementation Cost Accounting Display Profiles

Collective order display

Graphics Profile

Graphic

Group Display orders
 Name
 Index


Missing Parts List

ProfMissPrtslstOrdNo Profile 1 Aval.check for pln/prod.order
 Missing Parts Prof. Profile 2 Aval. check collective order

o Production Scheduling Profile: In a production scheduling profile, we can specify that in a production order particular business transaction are carried out in parallel

Path: SAP Customizing Implementation Guide > Production>Shop Floor Control> Master Data> Define Production Scheduling Profile

Change View "Production Scheduling Profile": Details

New Entries 

Plant: 0001 Division: 0001
 Prod. Sched. Profile: 000001 Production scheduling profile 1

Automatic Actions

On Creation	On Release
<input type="checkbox"/> Release	<input type="checkbox"/> Execute Printing
<input type="checkbox"/> Document Links - Material	<input type="checkbox"/> Schedule Order
<input 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 Confirm Available Partial Qty

Goods Receipt Automatic Goods Receipt

Capacity Planning

Leveling

Overall Profile:

Availability Check

Confirm Capacity Finite Scheduling

Confirmation

No Update of Excess Receipt No Update of Short Receipt

Adjust Quantities in Order to Actual Values

Batch Management

Automatic Batch Creation in the Order:

Batch Classification:

Extended classification

Always Batch Split

Date of Manufacture:

Offset in Days:

- o Production Supervisor: Define the production supervisors for your plants. By assigning production supervisors to materials within the application, you can define responsibilities for a material within production activity control.

Path: SAP Customizing Implementation Guide > Production>Shop Floor Control> Master Data> Define Production Scheduling Profile

Change View "Production Supervisor": Overview

New Entries

Plant	Pr.Superv.	Description	Prod.Profile	Prod.Profile Description
0001	001	production control proup 1		
0001	002	Planergruppe 2		
0001	1	Planergruppe 1		
0001	2	Planergruppe 2		
0003	001	production control proup 1		
0003	002	Planergruppe 2		
0003	1	Planergruppe 1		
0003	2	Planergruppe 2		

- o **Order Type Confirmation Parameters:** In this step, we define the confirmation parameters for each plant and order type. Using checks, you can define
- what happens when the sequence of operations is not adhered during confirmation
 - what happens when you want to confirm a larger quantity than was confirmed for the preceding operation
 - We can choose between a termination message, an error message, a warning message, and an information message.
 - whether we want the total confirmed quantity of an operation checked for under delivery or over delivery tolerance in the order header
 - What effect a QM result recording has on the confirmation.
 - whether dates (for example, posting date, end of lead time, etc) should also be displayed with a date that is further in the future than the time of creation

Path: SAP Customizing Implementation Guide > Production>Shop Floor Control> Operations> Confirmation > Define Confirmation Parameters

Change View "Parameters for Order Confirmation": Details

New Entries

Plant: 0001 Division: 0001
Order Type: PI01 Process order (internal number assignmt)

Generally Valid Settings | Individual Entry General | **Indiv. Entry of Operation w. Int. Screen**

Control

Process Control

Generated Confirmations w/o Quantity Adjustments

Conf. Profile:

Checks

Operation Sequence	Operation sequence is not checked
Underdelivery	Underdelivery tolerance is not checked
Overdelivery	Overdelivery tolerance is not checked
Results Rec. (QM)	Message if no inspection results exist

Dates in Future

HR Update	Selection
<input type="checkbox"/> No HR Update	<input type="checkbox"/> Open Orders

Propose Time Units	Goods Movements
<input checked="" type="radio"/> Automatic Optimization	<input checked="" type="checkbox"/> All Components
<input type="radio"/> Hours	<input type="checkbox"/> GR for Co-Products
<input type="radio"/> Minutes	

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