APPENDIX

AppendIX

Forecast Consumption

Creating Master Recipe including classification for alternative modes

Creating a characteristic for work center classification

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Create Batch Classification including Best Before Date for S/4HANA and PP/DS

Creating Object Dependencies for Calculating Best Before Date (BBD)

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Assign Batch Class to Material Master

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Further Information

1.1 Forecast Consumption

Consumption period is calculated in calendar days in embedded PP/DS for SAP S/4HANA and in working days in SAP S/4HANA.

A calendar can be assigned to consider working days by using BAdl /SAPAPO/BADI_FC_CSP_CLNDR. Refer SAP Note 2619345 PP/DS: BAdl for considering production calendar for Forecast consumption for details.

Maintain the Category Group in customizing by selecting *Advanced Planning > Maintain Category Groups*. Maintain the Category Group in customizing by and add relevant ATP categories. Category group defines which categories (of customer requirement) consume PIR.

Check Mode is not displayed in PP/DS product master and cannot be changed. The corresponding strategy group of the requirement class has to be defined in S/4HANA material master. In PP/DS, the Requirement Class has to be defined as Check Mode (same identifier).

The Assignment mode maintained in Check mode and the allocation indicator maintained in the Requirement Class should be the same for consistency in the system's behavior. Maintain requirement class in customizing by selecting Cross-Application Components -> Advanced Available-to-Promise -> Configuration Activities for specific document types -> Sales Order and deliveries -> Configure Requirement Classes and maintain Check mode by selecting Advanced Planning > Maintain Check Mode or maintenance view /SAPAPO/V_ATP06.

1.2 Creating Master Recipe including classification for alternative modes

There are two resources which can be used alternatively. The alternative resources are maintained as alternative mode in the PDS. For the transfer of the alternative modes the work centers and the operation of the master recipe are classified with the same value.

The following example is based on two centrifuges which can be used alternatively to produce milk.

Creating a characteristic for work center classification

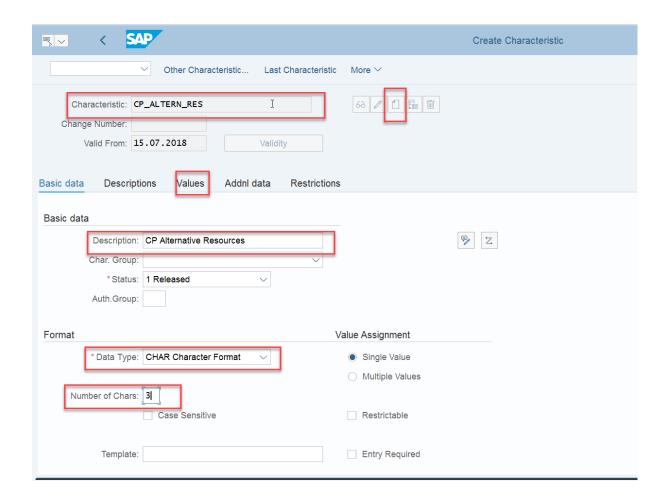
Procedure

Access the activity using one of the following navigation options:

Transaction Code	CT04
IMG Menu	Cross-Application Components → Classification System → Master Data → Characteristics

Click on Create.

Field name	User action and values
Characteristic	CP_ALTERN_RES
	Press Enter
Description	CP Alternative Resources
Status	1 Released
Data Type	CHAR
Number of Chars	3
Single Value	Select

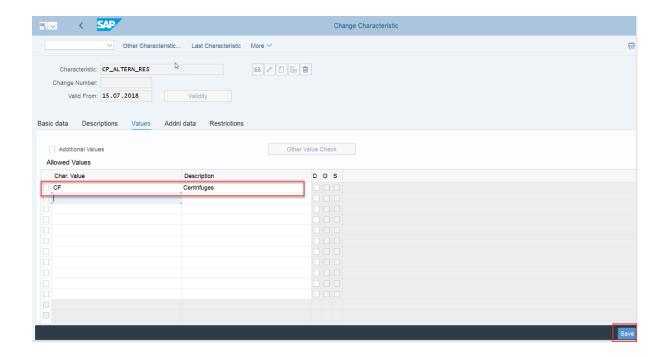


Click on Values

Enter the following Data:

Field name	User action and values
Char. Value	CF
Description	Centrifuges

Click on Save.



Creating class for work center classification

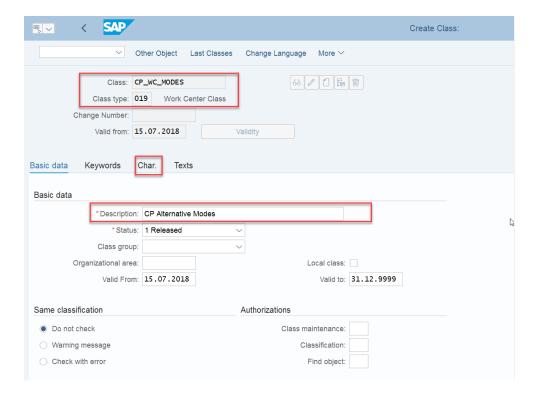
Procedure

Access the activity using one of the following navigation options:

Transaction Code	C102
IMG Menu	Cross-Application Components → Classification System → Master Data → Classes

Click on Create.

Field name	User action and values
Class	CP_WC_MODES
Class type	019
	Press Enter
Description	CP Alternative Modes
Status	1 Released

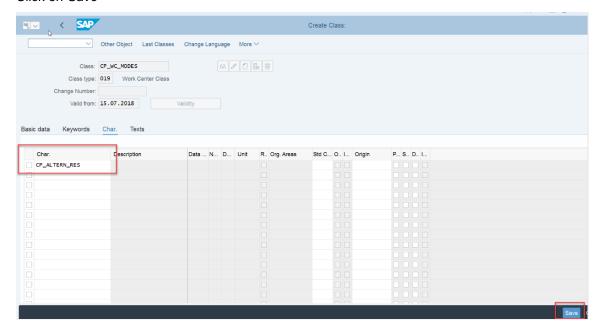


Click on Char.

Enter the following Data

Field name	User action and values
Characteristic	CP_ALTERN_RES

Click on Save



Classification of the work centers

All work centers, which are classified with the same class and same characteristic value as the operation of the master recipe are transferred as alternative modes to advanced planning.

Procedure

1. Access the activity using one of the following navigation options:

Transaction Code	CR02
IMG Menu	Logistics → Production → Work Centers → Work Center → Change

2. Enter the following Data:

Field name	User action and values
Plant	1710
Work Center	CP001

- 3. Press ENTER.
- 4. Select More → Extras → Classification
- 5. Enter the following Data

Field name	User action and values
Class	CP_WC_MODES
	Press Enter
Characteristic Value	CF

- 6. Click on Back or Press F3.
- 7. Click on Save.

Execute the steps also for work center CP002.

Creating Master Recipe for material CPS0001 and CPS0006

Procedure

Access the activity using one of the following navigation options:

Transaction Code	C201
IMG Menu	Logistics → Production – Process → Master Recipes → Recipe and Material List → Create

Enter the following Data for creating the master recipe for material CPS0001:

Field name	User action and values
Material	CPS0001
Plant	1710
Profile	YPI1

Press ENTER.

Enter the following Data:

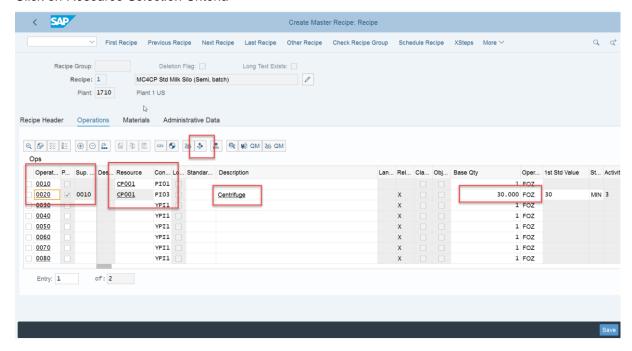
Field name	User action and values
Status	4
Usage	1

Click on Operations

Field name	User action and values
Operation	0010
Resource	CP001
Control Key	PI01
Base Quantity	30000
	Press ENTER
Operation	0020
Superior Operation	0010
Resource	CP001
Control Key	PI03
Description	Centrifuge
Base Quantity	30000
	Press Enter
	Confirm the information message by clicking on Continue
Machine Time	30
	Double click on the operation 0020
Set up time	60

Select operation 0010.

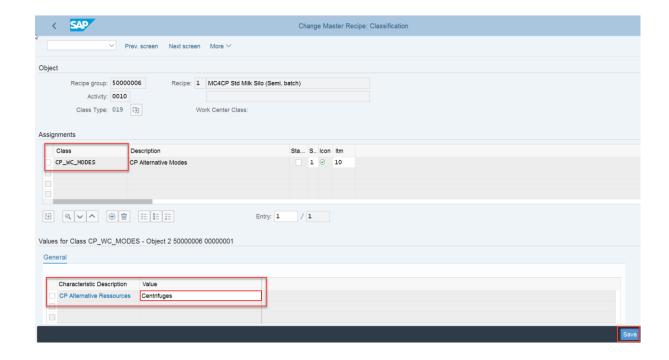
Click on Resource Selection Criteria



Enter the following Data

Field name	User action and values
Class	CP_WC_MODES
	Press Enter
Characteristic: CP Alternative Ressources	СР

Click on Save.



After creating a production version the transfer of the PDS can be triggered.

1.3 Create Batch Classification including Best Before Date for S/4HANA and PP/DS

The example is based on a best before date for milk. The best before date should be considered by the MRP. The name of the class, integration model can be defined as you want. However, the name of the characteristics and object dependencies should be defined as described below.

Creating Object Dependencies for Calculating Best Before Date (BBD)

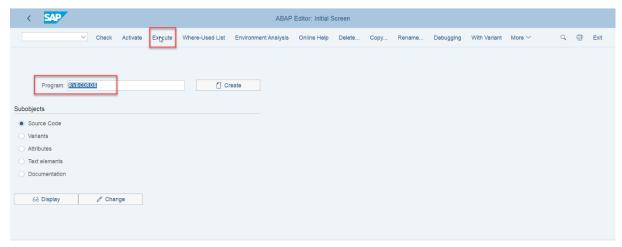
The shelf life data is transferred to advanced planning using the classification. The characteristics are already maintained in the system. The object dependencies can be generated by a standard report.

Procedure

Access the activity using one of the following navigation options:

Transaction Code	SE38
IMG Menu	Cross-Application Components → Classification System → Master Data → Classes

Enter the report name RVBCOR08.



Click on Execute.

A log is displayed displaying the generated object dependencies. The report assigns also the object dependencies to the characteristics.



Click on Exit.

Creating class for batch classification

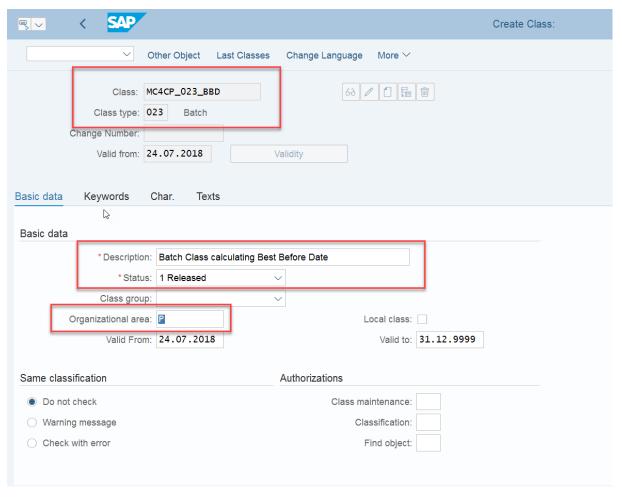
Procedure

Access the activity using one of the following navigation options:

Transaction Code	C102
IMG Menu	Cross-Application Components → Classification System → Master Data → Classes

Click on Create.

Field name	User action and values
Class	MC4CP_023_BBD
Class type	23
	Press Enter
Description	Batch Class calculating Best Before Date
Status	1 Released

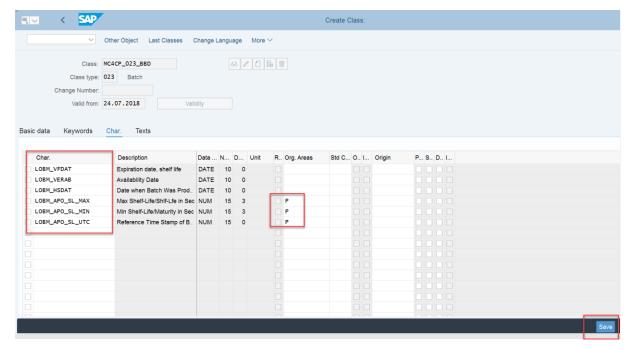


Click on Char.

Field name	User action and values
Characteristic	LOBM_VFDAT
	Press Enter
Characteristic	LOBM_VERAB
	Press Enter
Characteristic	LOBM_HSDAT

Field name	User action and values
	Press Enter
Characteristic	LOBM_APO_SL_MAX
Organizational Area	Р
	Press Enter
Characteristic	LOBM_APO_SL_MIN
Organizational Area	Р
	Press Enter
Characteristic	LOBM_APO_SL_UTC
Organizational Area	Р
	Press Enter

Click on Save



Information message concerning successful creation of the class is displayed.

Transfer Characteristics for BBD to PP/DS

Create Integration Model

Procedure

Access the activity using one of the following navigation options:

IMG Menu	Logistics → Production → SOP → Environment → Supply	
	Chain Planning → Core Interface Advanced Planner and	
	Optimizer → Integration Model → Activate	

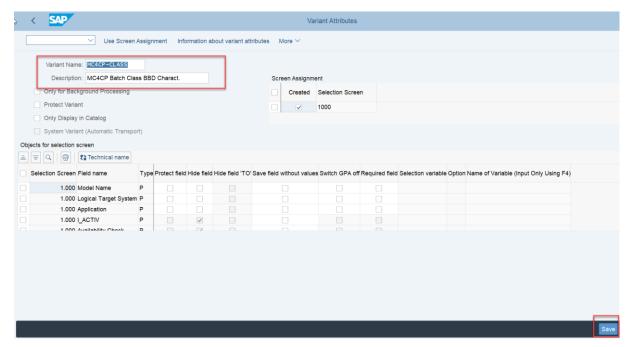
Enter the following Data

Field name	User action and values
Model Name	MC4CP
Logical System	Select your logical system using the F4-Help
APO Application	Class
Classes/Charact	Set the Flag
	Click on Special Restrictions (right to Classes/Charact.)
Org. Area	P
Class Type	023

Click on Save to create a variant for your settings.

Enter the following Data

Field name	User action and values
Variant Name	MC4CP-CLASS (or any other name)
Description	MC4CP Batch Class BBD Charact.



Click on Save.

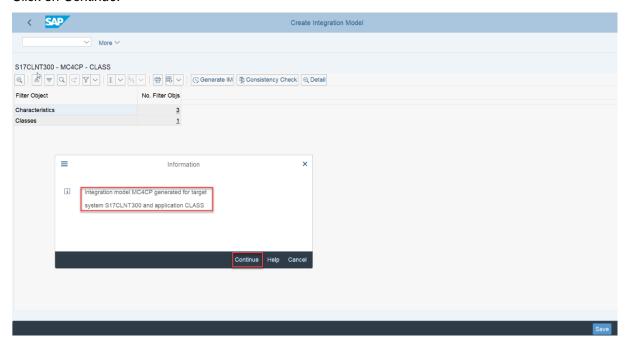
Click on Execute.

Click on Generate IM.



An information message is displayed.

Click on Continue.



Click on Back or F3.

Activate Integration Model

Procedure

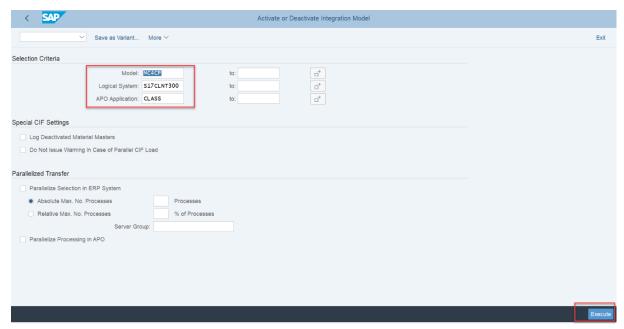
Access the activity using one of the following navigation options:

Transaction Code	CFM2
IMG Menu	Logistics → Production → SOP → Environment → Supply Chain Planning → Core Interface Advanced Planner and Optimizer → Integration Model → Activate

Field name	User action and values
Model Name	MC4CP

Field name	User action and values
Logical System	Select your logical system using the F4-Help
APO Application	Class

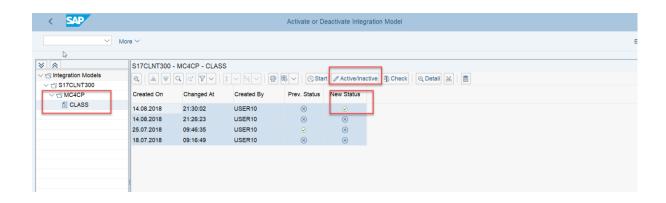
Click on Execute.



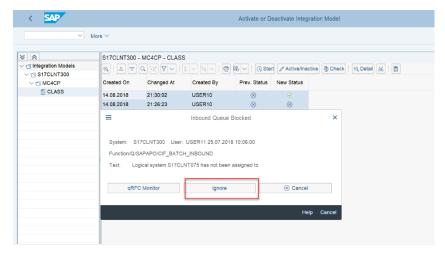
Click on Class.

Click on New Status on the integration model with the latest date.

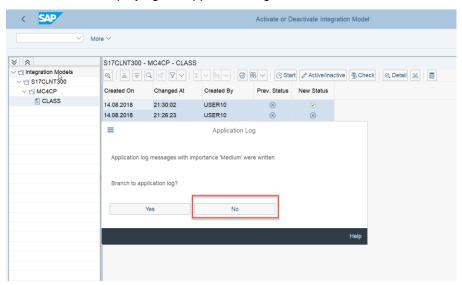
Click on Start.



If any message is displayed, click on Ignore.



Click on NO for displaying the application log.



The characteristics have been transferred to PP/DS.

Assign Batch Class to Material Master

Procedure

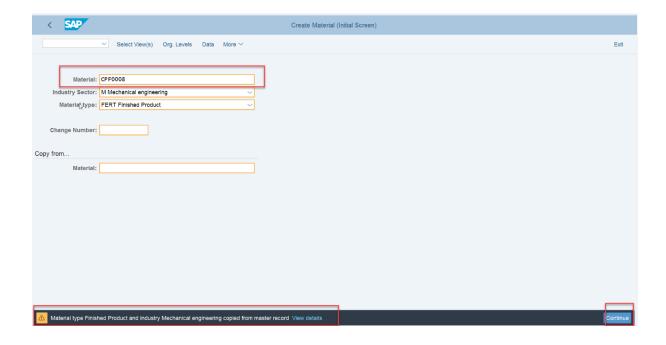
Access the activity using one of the following navigation options:

Transaction Code	MM01
IMG Menu	Logistics → Production → Master Data → Material Master → Create (General) → Immediately

Field name	User action and values
Material	Any material which is relevant to advanced planning

Click on Continue.

The industry sector and the material master are copied from the material master. An information message is displayed.



Click on Continue.

Select the view "Classification".

Assign the class for class type 023 to the material master.

1.4 Notes

Note	Description
2434851	2434851 - How to setup Advanced Planning (PPDS) in S/4 HANA (CIF Basic Setup)
2496856	Restrictions and Implementation Recommendations for Production Planning and Detailed Scheduling for SAP S/4HANA 1709
2496628	Release Information Note: Production Planning and Detailed Scheduling for SAP S/4HANA 1709
2666947	Restrictions and Implementation Recommendations for Production Planning and Detailed Scheduling for SAP S/4HANA 1809
2674488	Release Information Note: production Planning and Detailed Scheduling for SAP S/4HANA 1809
2825650	Restrictions and Implementation Recommendations for Production Planning and Detailed Scheduling for SAP S/4HANA 1909
2841107	Release Information Note: Production Planning and Detailed Scheduling for SAP S/4HANA 1909
2952988	Restrictions and Implementation Recommendations for Production Planning and Detailed Scheduling in SAP S/4HANA 2020
2963990	Release Information Note: Production Planning and Detailed Scheduling for SAP S/4HANA 2020
2970988	Restrictions and Implementation Recommendations for Production Planning Optimizer (SAP S/4HANA 2020)
2495662	SAP S/4HANA 1709: Process Integration with SAP on-premise Solutions
2657067	SAP S/4HANA 1809: Process Integration with SAP on-premise Solutions
2816584	SAP S/4HANA 1909: Process Integration with SAP on-premise Solutions
2974130	SAP S/4HANA 2020: Process Integration with SAP on-premise Solutions
2517109	Simplification List: Production Planning and Detailed Scheduling for SAP S/4HANA 1709
2647972	Simplification List: Production Planning and Detailed Scheduling for SAP S/4HANA 1809
2841072	Simplification List: Production Planning and Detailed Scheduling for SAP S/4HANA 1909
2977528	Simplification List: Production Planning and Detailed Scheduling for SAP S/4HANA 2020
2407589	Manual installation of liveCache for S/4HANA
1686826	Installation help for installing SCM Optimizers
712066	Restrictions of the Production Planning and Detailed Scheduling (PP/DS) optimizer
2037585	Upgrade of SAP-HANA-integrated liveCaches
2074788	Patch strategy for SAP HANA-integrated liveCaches
2074843	Version Matrix for HANA integrated liveCaches
2272406	Missing Customizing Table Entries
2634408	PP/DS : Setting OPMODE in CFC1 to 'T' standard

2342043	Integration of S/4 Product Master with SCM Product Master
2590603	Extensibility Feature for SCM Related Fields in Product Master from 1709 release
2598760	Enable Capacity Variants, Shifts and Definitions for Resources with External Capacity in SAP GUI
2670539	Subcontracting Documentation: Production Planning and Detailed Scheduling for SAP S/4HANA
2619345	PP/DS: BAdI for considering production calendar for Forecast consumption
2674523	Release Information Note: Monitor Capacity Utilization app, Production Scheduling Board app on SAP Fiori for SAP S/4HANA 1809
1579728	SMQR - Inbound queue scheduler settings - explained
1806204	How to configure the ECC Inbound Scheduler for CIF
2867950	Several issues related to integration when using S/4 Hana 1809 and 1909
2804693	PPDS->S/4: Not all change pointers are processed

1.5 Further Information

Roadmapviewer (EN)

Simplification List for 1709, 1809, 1909, and 2020, see SAP Note 2517109 - Simplification List: Production Planning and Detailed Scheduling for SAP S/4HANA 1709

SAP Help Portal

Fiori reference Libr.: Production Scheduling Board

https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/#/detail/Apps('F2176')

2935187 - Limitations to Production Scheduling Board App

Fiori reference Libr: Monitor Capacity Utilization

https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/#/detail/Apps('F1523')/S6OP

Fiori reference Libr: Monitor Capacity Utilization - Object page

https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/#/detail/Apps('F2900')/S9OP

Blog PP/DS for S/4HANA

Blog Production Scheduling Board

For optimizer sizing refer the link:

The HANA version of the <u>quicksizer</u> provides help to size your live cache memory requirements. Navigate to the node "Advanced Prod. planning & sched." under "SAP S/4HANA".