



# What's New in SAP Integrated Business Planning 2108 (Planned) / Part 2 Applications and Business Processes

SAP Product & Solution Management  
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PUBLIC

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# This is a sneak preview

The What's New webinars as well as the What's New documentation on the SAP Help Portal at <http://help.sap.com/ipb> are available some weeks before the actual release date.

The release of **SAP Integrated Business Planning 2108** is currently planned for **August 4, 2021**. The system upgrades for the customer test systems are scheduled the following weekend.

BUT... things can happen ... and features might still be delayed.

Therefore: „**This is the current state of planning and may be changed by SAP at any time.**”

The screenshot shows the SAP Help Portal interface for SAP Integrated Business Planning for Supply Chain 2105. The page has a dark header with the SAP logo and 'SAP Help Portal' text. Below the header, the main title 'SAP Integrated Business Planning for Supply Chain' is displayed with a star icon and '2105' and 'English' dropdowns. A search bar with the placeholder 'Enter keywords or a product name' is present, along with a 'Download PDFs' button. The navigation bar includes links for 'Discover', 'What's New', 'Implement', 'Integrate', 'Use', 'Learn and Get Certified', and 'See all'. The 'What's New' section is active, showing a megaphone icon and the title 'What's New'. Below this, there are several links and descriptions: 'What's New in SAP IBP for Supply Chain 2105?' (with a detailed overview), 'What's New in the Unified Planning Area?' (with a PDF icon), 'Upcoming and Recorded Events and Webinars' (with a calendar icon), 'What's New for Previous Releases?' (with a document icon), and 'Release Information Note (SAP Note 3017637)' (with a document icon). A red box highlights the 'Sneak Preview' link, which is described as 'Explore here what is planned for the release 2108 (scheduled for August 2021)'.

# How early birds get to know about news and changes in the next release ;)

Around 3 to 4 weeks before the next release, you can find a sneak preview (preliminary What's New) on SAP Help Portal under <http://help.sap.com/ibp>.

For 2108, we have published the sneak preview on **July 9**.

For 2111, we are planning to make it available on **October 3**, around 4 weeks before the planned RTC on August 4.

Feedback welcome any time.

**2108 example**

SAP Help Portal

SAP Integrated Business Planning for Supply Chain 2105

English ▼

This product ▼ Enter keywords or a product name

Advanced Search ▼

Download PDFs

Discover What's New Implement Integrate Use Learn and Get Certified See all

**What's New**

[What's New in SAP IBP for Supply Chain 2105?](#)  
Detailed overview of new and changed features, including links to more information in the application help and guides.

[What's New in the Unified Planning Area?](#) (PDF)  
Find the configuration enhancements in the unified planning area (sample planning area SAPIBP1) related to new features in 2105.

[Upcoming and Recorded Events and Webinars](#)  
Find the recording and the slides for the What's New webinar for 2105, planned for April 2021, plus a vast list of upcoming and recorded webinars with our experts.

[What's New for Previous Releases?](#)  
Get an overview of new features provided with earlier releases.

**Sneak Preview**  
Explore here what is planned for the release 2108 (scheduled for August 2021).

[Release Information Note \(SAP Note 3017637\)](#)  
Access important SAP Notes that provide additional information about the release.



# How to make the most of the What's New on SAP Help Portal?

It's simple:

- Start with the What's New overview table.
- Use the filters.

Hot filter values (examples):

- In the *Types* column:
  - *New*
  - *Mandatory task after upgrade*
- In the *Impact* column:
  - *Normalized systems only*

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What's New in SAP Integrated Business Planning for Supply Chain 2105

How to Use the What's New Table

What's New History

Normalization

> Identity and Access Management

> Administration

> Business Network Collaboration

> Data Integration

> Model Configuration

> Unified Planning Area (SAPIBP1)

> SAP IBP, Add-In for Microsoft Excel

> Web-Based Planning

> Process Management

> Demand Planning

> Inventory Optimization

> Demand-Driven Replenishment

> Driver-Based Planning

What's New in SAP Integrated Business Planning for Supply Chain 2105

> About this version

> What's New in 2105, and what you need to do after the upgrade to 2105?

The What's New table below lists all news and changes. You can filter the table according to your needs, in particular, to find the tasks that you need to perform immediately after the upgrade. Just click the blue **Filter** in the column header. For more information, see [How to Use the What's New Table](#).

**Note**

To list the features that are only available in normalized systems, filter the **Impact** column for **Normalized systems only**. For more information, see [Normalization](#).

What's New

Show/hide columns: All entries. Previous

Search: Search the entire table

Business Topics	Types	Target Groups	Impact	What's New - Headline
Filter	Filter	Filter	Filter	Search within the column
Administration	Prepare next release	Administrator/configuration expert	Web UI	As already announced in SAP IBP 2011, the <b>Maintain Employees</b> (F2288) app has been replaced by <b>Maintain Employees</b> (F2288a). You can find both apps next to each

# Information about Licensing

None of the material presented include any indication of licensing required, which you can discuss with your individual account team. You can also visit “[Applications and Features of SAP Integrated Business Planning for Supply Chain](https://help.sap.com/viewer/6b0a6820ebf94ff4a15d68af6db7745b/latest/en-US)” for more details or get in contact with your Customer Engagement Executive.

Link to “Applications and Features of SAP Integrated Business Planning for Supply Chain”  
<https://help.sap.com/viewer/6b0a6820ebf94ff4a15d68af6db7745b/latest/en-US>



Q&A: Chat is open for questions throughout the session with experts online to answer

## Agenda

### Yesterday

#### Part 1: Planning UIs, Foundation, ...

- Normalization Migration
- Analytics & Dashboards
- Foundation Topics
- SAP IBP, Add-in for Microsoft Excel
- Planner's Workspace
- Work Zone
- Simulation Engine
- Copy Operator
- Integration

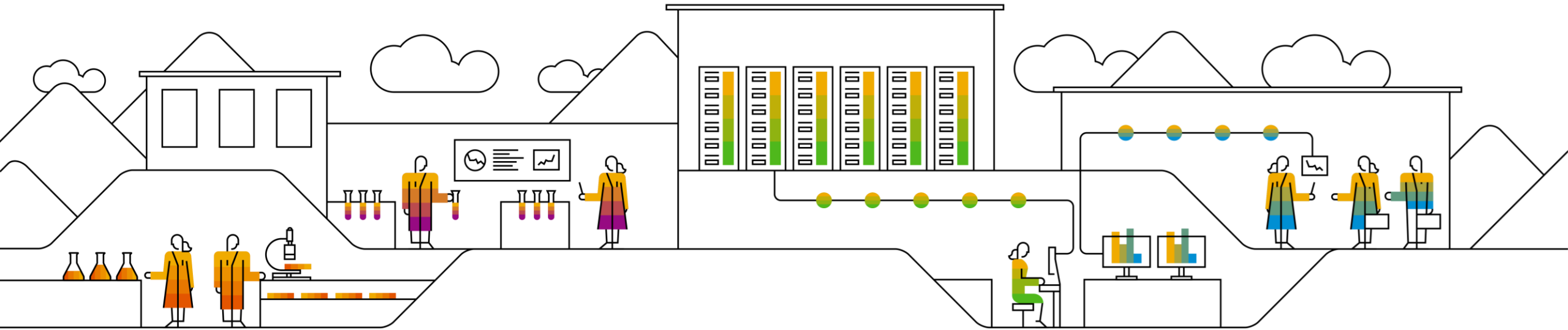
### Today

#### Part 2: Applications and Business Processes

- Best Practices
- Demand & Demand Sensing
- Inventory Optimization
- DDMRP
- Supply Chain Control Tower
- Sales & Operations Planning
- Time Series Planning
- Order Based Planning

# SAP Best Practices for SAP Integrated Business Planning

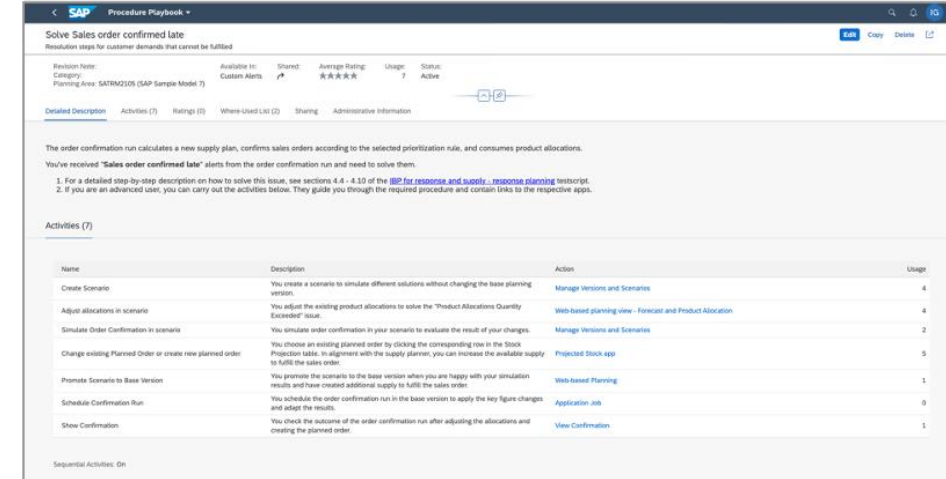
Ina Glaes





# New scope and changes in V24.2108

- The SAPIBP1 sample planning area has been simplified as follows: new copy option for SAPIBP1 called “Create New by Partial Copy”; new order model for demand sensing to reduce data volume; k-means machine learning algorithm added to ABC/XYZ segmentation profile.
- The new *IBP for demand – new product introduction* scope item describes two variants for new products with reference products.
- The *IBP for sales and operations* scope items now use SAP Work Zone as collaboration tool.
- The *IBP for demand - demand planning* scope item has been enhanced with a new chart showing how planning notes are used in charts and with an example concerning key figure editability.
- The *IBP for response and supply – response planning* scope item has been enhanced with a preconfigured procedure playbook to assist users when resolving alerts.
- The *IBP for response and supply – deployment planning – optimizer* scope item has been enhanced and simplified using a Planner Workspace, a new personalized and intuitive workplace experience that allows easy access to relevant planning information.



Procedure Playbook

The screenshot shows the 'SAP Planner Workspace' for 'Deployment Planning'. It displays a table with columns for Material Number, Location ID, Customer ID, Key Figures, and various dates. The table is filtered by 'PWS Safety Stock Violation' and shows data for 'OBP 030 Deployment Planning - Transportation'.

Material Number	Location ID	Customer ID	Key Figures	05/22/2021	05/23/2021	05/24/2021	05/25/2021	05/26/2021
1	DL1_FG128	1250	(None)	140	0	0	140	140
2	DL1_FG128	1250	(None)	0	0	0	0	0
3	DL1_FG128	1250	(None)	0	0	0	0	0
4	DL1_FG128	1250	(None)	0	0	0	0	0
5	DL1_FG128	1250	(None)	0	0	0	0	280
6	DL1_FG128	1250	(None)	1,400	0	0	0	0
7	DL1_FG128	1250	(None)	700	700	700	700	700
8	DL1_FG128	1250	(None)	2,100	2,100	2,100	2,100	2,100
9	DL1_FG128	1250	(None)	50	50	50	-90	-90
10	DL1_FG128	1250	0025100001	70	0	0	70	70
11	DL1_FG128	1250	0025100001	70	0	0	70	70
12	DL1_FG128	1250	0025100001	70	0	0	0	0
13	DL1_FG128	1250	0025100002	70	0	0	70	70
14	DL1_FG128	1250	0025100002	70	0	0	70	70
15	DL1_FG128	1250	0025100002	70	0	0	0	0
16	DL1_FG128	2550	(None)	140	0	0	140	140
17	DL1_FG128	2550	(None)	0	0	0	0	0
18	DL1_FG128	2550	(None)	0	0	0	0	0
19	DL1_FG128	2550	(None)	0	0	0	0	0
20	DL1_FG128	2550	(None)	0	0	0	0	140
21	DL1_FG128	2550	(None)	1,400	0	0	0	0
22	DL1_FG128	2550	(None)	700	700	700	700	700
23	DL1_FG128	2550	(None)	2,100	2,100	2,100	2,100	2,100
24	DL1_FG128	2550	(None)	980	980	980	980	700
25	DL1_FG128	2550	0025100001	140	0	0	140	140

Planner Workspace

# SAP Best Practices for SAP Integrated Business Planning for Supply Chain

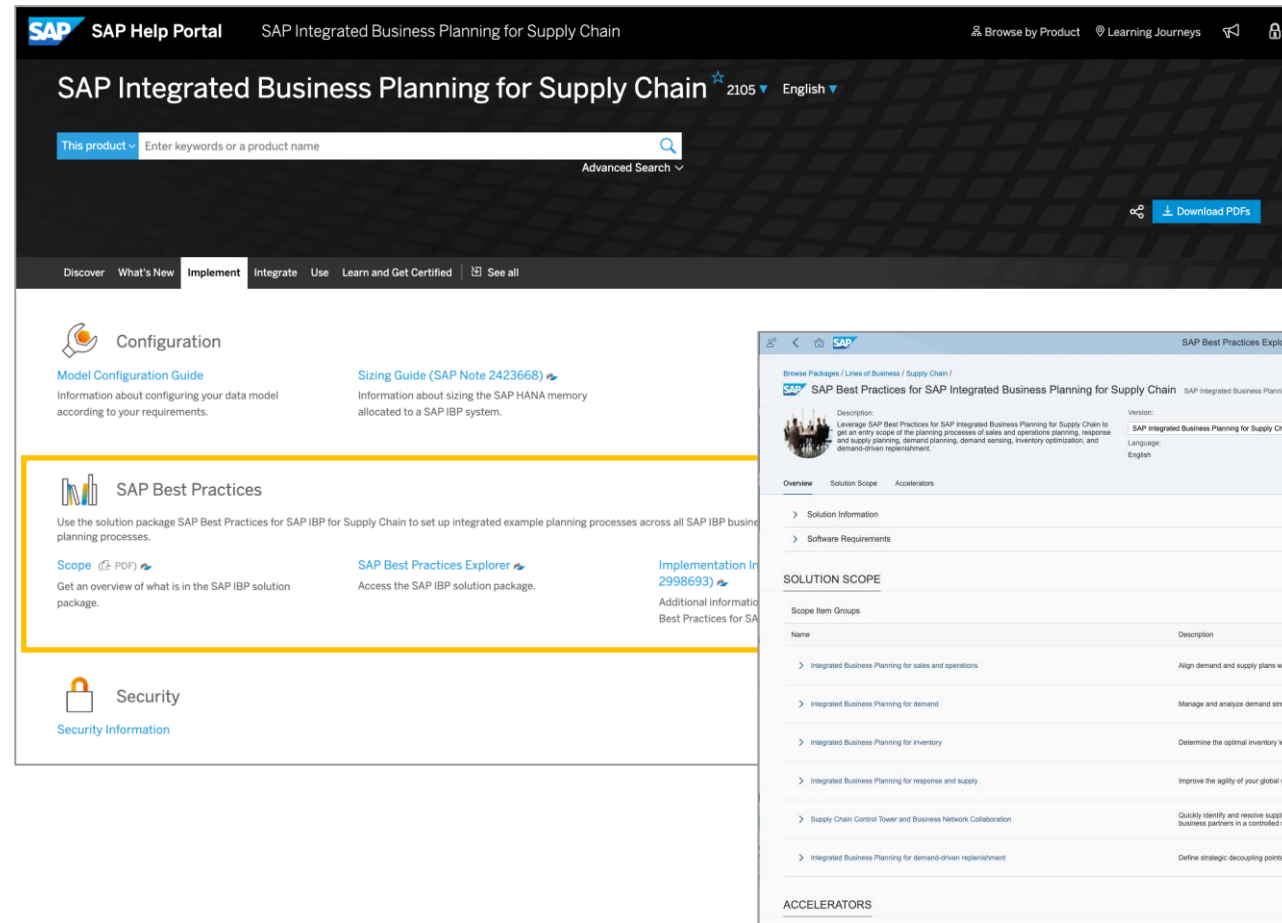
## Where to get it

<http://help.sap.com/ibp>

[http://rapid.sap.com/bp/rds\\_ibp](http://rapid.sap.com/bp/rds_ibp)

Download the following assets:

- Test scripts
- Process flow charts
- Scope item recordings
- Configuration guides
- Excel planning view templates
- Sample data CSV files

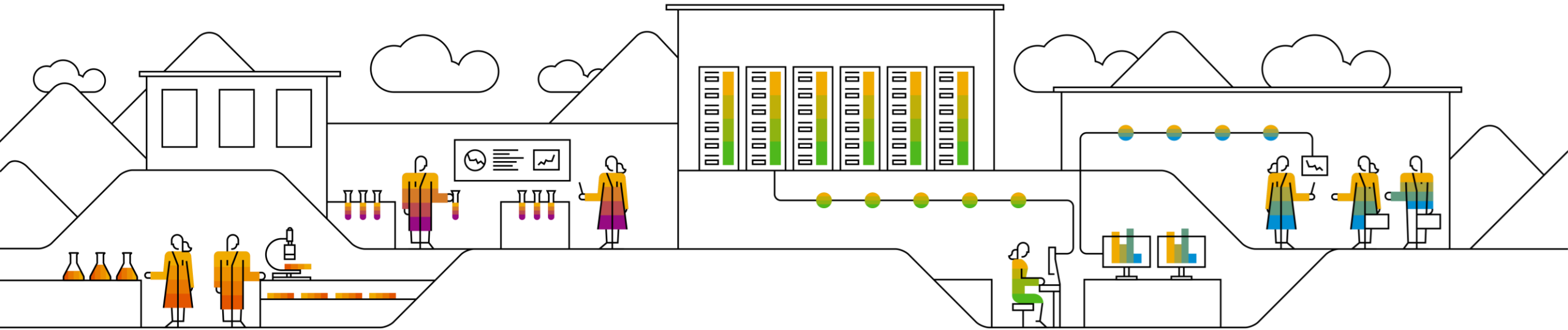


SAP IBP Best Practices 2011: Fundamentals to jump-start your implementation project (OBP) [PDF](#) | [Recording](#)

SAP IBP Best Practices 2105: Fundamentals to jump-start your implementation project (Demand) [PDF](#) | [Recording](#)

# SAP Integrated Business Planning for demand

## Rainer Moritz



# Agenda

Variable Impact Analysis for MLR

Enhancements Smart Manual Forecast

Forecast model assignment via CSF file upload

Demand Sensing: Data model simplification

# Agenda

## **Variable Impact Analysis for MLR**

Enhancements Smart Manual Forecast

Forecast model assignment via CSF file upload

Demand Sensing: Data model simplification

# Advanced Forecasting: Variable Impact Analysis for MLR

What is **Variable Impact Analysis** (also known as „Forecast Decomposition“)?

- Multiple Linear Regression (MLR) can leverage additional independent variables
  - These variables influence the forecast differently
  - Coefficients are calculated for each variable to measure the individual impact
- Variable impact analysis enables decomposition of forecast to components:
  - **Baseline forecast without considering independent variables**
  - **Impact of each independent variable**
  - The sum of the impact key figures and baseline equals the total forecast in each time period
  - Same can be done for ex-post forecast
- Keep in mind:
  - The impact of **system-generated features** is part of the baseline
  - **Seasonality and trend** also belong to the baseline
  - There is also the option to define independent variables to be part of the baseline

## MLR\_Customer\_Focus\_Group

Planning Area SAP62002 (CNM Demo)

0

Number of Planning Objects Assigned to this Model

GENERAL PREPROCESSING STEPS **FORECASTING STEPS** POSTPROCESSING STEPS

### Overall Parameters

Main Input for Forecasting Steps: \* Sales History Adjusted

Target Key Figure for Forecast: \* Total Forecast Qty

Target Key Figure for Ex-Post Forecast: Expost Forecast Qty

### Algorithms

#### Multiple Linear Regression

Variable Selection: None

### Independent Variables and Impact Analysis

Analyze Impact on Forecast: ☒

Analyze Impact on Ex-Post Forecast: ☐

Baseline for Forecast: \* Baseline Forecast Qty

Baseline for Ex-Post Forecast:

Independent Variables (3)

Independent Variable	Period Offsets	Zero-Impact Setting	Impact Key Figure for Forecast	Impact Key Figure for Ex-Post Forec...
Event Key Figure	-2 / 1 periods	Zero or NULL Value	Event Impact	
Categorical Variable: <input checked="" type="checkbox"/>				
Promotion Tactic	-2 / 2 periods	Zero or NULL Value	Promotion Impact	
Categorical Variable: <input checked="" type="checkbox"/>				
Promotion Discount (%)	-2 / 2 periods	Zero or NULL Value	Promotion Impact	
Categorical Variable: <input type="checkbox"/>				

### System-Generated Features

Slope Dummy: ☐

Consider Change Points: ☐

Month of the Year: ☒



# Agenda

Variable Impact Analysis for MLR

## **Enhancements Smart Manual Forecast**

Forecast model assignment via CSF file upload

Demand Sensing: Data model simplification

# Smart Manual Forecast

Alternative approach to plan new products

Recap “Smart Manual Forecast” (first version available since IBP 2105):

Create a forecast for the new product based on assumptions and not based on references providing historical values for the forecast:

- No product assignments are defined in this case
- Instead **maintain parameters** in the Manage Product Lifecycle app:
  - **Base value**
  - **Trend** + trend dampening (optional)
  - **Seasonality** curve (optional)  
along of launch dimension values
- It can be decided by product if manual forecast should be applied.

# Smart Manual Forecast

## Enhancements with IBP 2108

- Simulation UI (see next slide)
- “Manual Forecast End Date”: If the current date is after the “Manual Forecast End Date” a forecast is executed using the parameters defined in the forecast model.
- Start Date for „Seasonality Curves“: With this the curve can be reused as the seasonal pattern is applied independent of phase-in start

Customer ID: \* High Tech Superstore (US9001) x

Forecast Start: \* May 24, 2021

Phase-In Start: \* July 25, 2021

Phase-In End: \* October 30, 2021

Manual Forecast End: December 31, 2021

## Maintain By

☐ Base Value 0 PC Weekly

☒ Distribution Value 10000 PC

## Details

Distribution Horizon: 1 Yearly

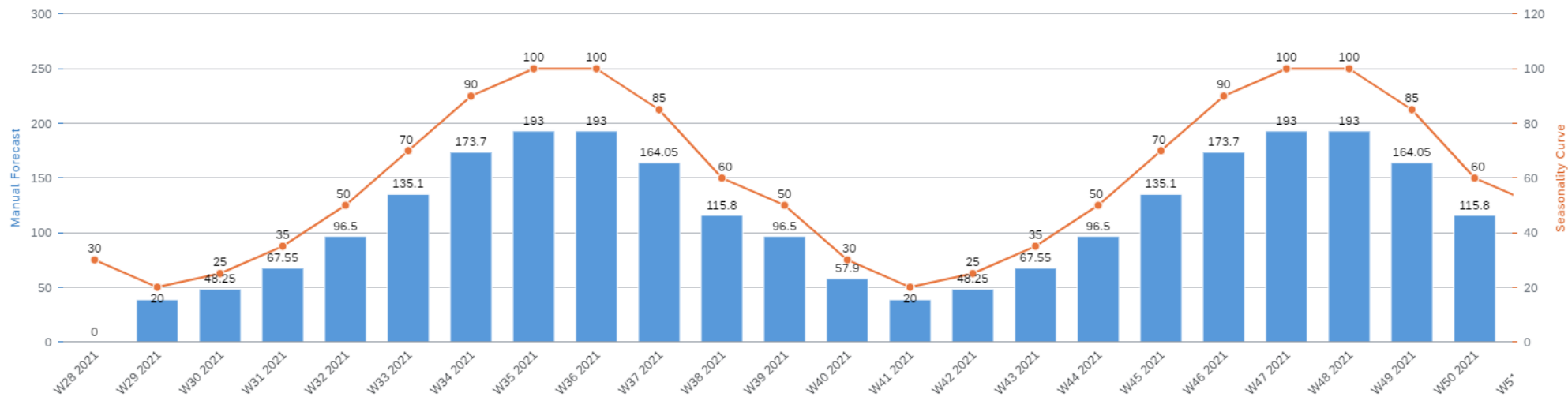
Calculated Base Value: 193 Weekly

Seasonality Curve: Yearly Seasonality 2021 + 2022

Trend Value: 0 PC

Phi Coefficient:

Forecast Horizon \* 52 Periods per Season 24 Start Date 02/01/2021 Simulate

[Save Curve As](#)

OK Cancel

# New Simulation UI

# Agenda

Variable Impact Analysis for MLR

Enhancements Smart Manual Forecast

**Forecast model assignment via CSF file upload**

Demand Sensing: Data model simplification

# Upload forecast model assignments from file

SAP Assign Forecast Models

Standard

Go Hide Filter Bar Filters

CUSTID: Location ID: Product ID: Assigned Forecast Model: Changed On: MM/dd/yyyy - MM/d... Number of Change Points: Last Change Point: MM/dd/yyyy - MM/d...

Change Point Periods:

Planning Objects (1) | 1 Without Assignment

Results of Time Series Analysis Edit Assignment Delete Assignment Upload Assignments

<input type="checkbox"/>	CUSTID	Location ID	Product ID	Assigned Forecast Model	Changed On	Time Series Properties	Number of Change Points	Last Change Point
<input type="checkbox"/>	0010100001	6210	IBP-100	No model assi...				

Export to Spreadsheet

Download as Template

- Upload Assignments: Existing assignments are overwritten from file, new assignments are created
- Download as Template:
  - The filtered table will download in .csv file format
  - The downloaded file only includes the root attributes of the planning level along with the assigned models

# Agenda

Variable Impact Analysis for MLR

Enhancements Smart Manual Forecast

Forecast model assignment via CSF file upload

**Demand Sensing: Data model simplification**



# Demand Sensing IBP 2108: Data Model Simplification

## Strategy:

- **Optimize sales orders and deliveries data model** with no loss of functionality

## Backward Compatibility:

- Customers can adopt the new model at their convenience.
- Previous data model will continue to be supported including
  - Master data and attribute as key figure based approach similar to past sample data model
  - Key figure based approach for sales order with Order Creation Date as root.

Sample planning areas SAPIBP1 and SAP6 are changed and using the new modelling approach

# Reduce Data Volume and Runtime for Demand Sensing

Based on one Customer Test Case

1232 Planning Combinations (632 products, 1 location, 2 customer)

Scope	Previous Data Model	Optimized Data Model (2108)	Improvement
Sales (planning objects)	~15 million	~ 25K	1/600
Deliveries (planning objects)	~ 14 million	~1K	1/14,000
Historical Horizon		365 Days	
Sensing Horizon		35 Days	
Maximum Runtime	~ 14 minutes	~ 2 minutes	7X

- Numbers above are based on one example to indicate the potential of the chance
- Integration job are not included which means further significant reduction in end to end run time can be achieved

# Change 1: Simplification of Data Model for Deliveries

## Before

- Master Data: *IBPDELIVERY*

ID	Name	Key	Required
<a href="#">DELIVERY</a>	Delivery Order	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<a href="#">DELIVERYITEM</a>	Delivery Item	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<a href="#">ACTMOVEDATE</a>	Actual Goods Movement Date	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CUSTID</a>	CUSTID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<a href="#">DELIVQTY</a>	DELIVQTY	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">LOCID</a>	Location ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<a href="#">PRDID</a>	Product ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<a href="#">SOLDTO</a>	SOLDTO	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">UOMID</a>	Base UoM	<input type="checkbox"/>	<input type="checkbox"/>

- Attribute as Key Figures

Master Data Type ID	Attribute ID	Planning Area Attribute Description
<a href="#">S12DELIVERY</a>	<a href="#">DELIVQTY</a>	Delivered Quantity

- Forecast Model
  - Delivered Quantity is aggregated to the demand sensing run planning level (combination)

## 2108

- No master data type and no attribute as key figures
- Just a regular key figure at new planning level:
  - Business Meaning is same as before “Actual Sales Quantity”

Delivered Qty				
DELIVQTY				
Description: Delivered Qty	Base Planning Level: <a href="#">LOCPRODCUSTDAILY</a>	Type: 	Key Figures: <a href="#">1</a>	Applications: -
<a href="#">Characteristics</a>	<a href="#">Calculation Definitions</a>	<a href="#">Display Settings</a>		

- Forecast Model
  - Delivered Quantity is aggregated to the demand sensing run planning level (combination)

# Change 2: Simplification of Data Model for Sales Orders

## Before

- Master Data: *IBPSALESORDER*

ID	Name	Key	Required
SALESDOC	SALESDOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SALESITEM	SALESITEM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SCHLINE	SCHLINE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CONFQTY	CONFQTY	<input type="checkbox"/>	<input type="checkbox"/>
CUSTID	CUSTID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
LOCID	Location ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATAVAILDATE	MATAVAILDATE	<input type="checkbox"/>	<input type="checkbox"/>
ORDERCREATEDATE	ORDERCREATEDATE	<input type="checkbox"/>	<input type="checkbox"/>
PRDID	Product ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
REQQTY	REQQTY	<input type="checkbox"/>	<input type="checkbox"/>
SOLDTO	SOLDTO	<input type="checkbox"/>	<input type="checkbox"/>
UOMID	Base UoM	<input type="checkbox"/>	<input type="checkbox"/>

- Attribute as Key Figures

<b>S12SALESORDER</b>	CONFQTY	Confirmed Quantity
	REQQTY	Requested Quantity

- Forecast Model
  - Confirmed Quantity / Requested Quantity is aggregated to the demand sensing run planning level (combination)

## 2108

- No master data type and no attribute as key figures for sales order
- New attribute and master data type:
  - Represents number of days between MAD (material availability date) and OCD (order creation date)

IBPDSFULFILLMENT      DSFULFILLMENTDAYS      Demand Sensing Order Fulfillment Days      Order Items Fulfillment Days

- New planning level (day = MAD, OCD = day – DSFULFILLMENTDAYS)

Planning Levels (2)	
ID	Description
LOCPRODCUSTDSFULFILLDAILY	Location   Product   Customer   DS Fulfill   Daily
LOCPRODCUSTDSFULFILLUOMTODAILY	Location   Product   Customer   DS Fulfill   UOMTO   Daily

**PRDID \***  
**LOCID \***  
**CUSTID \***  
**DSFULFILLMENTDAYS \***  
**Daily**

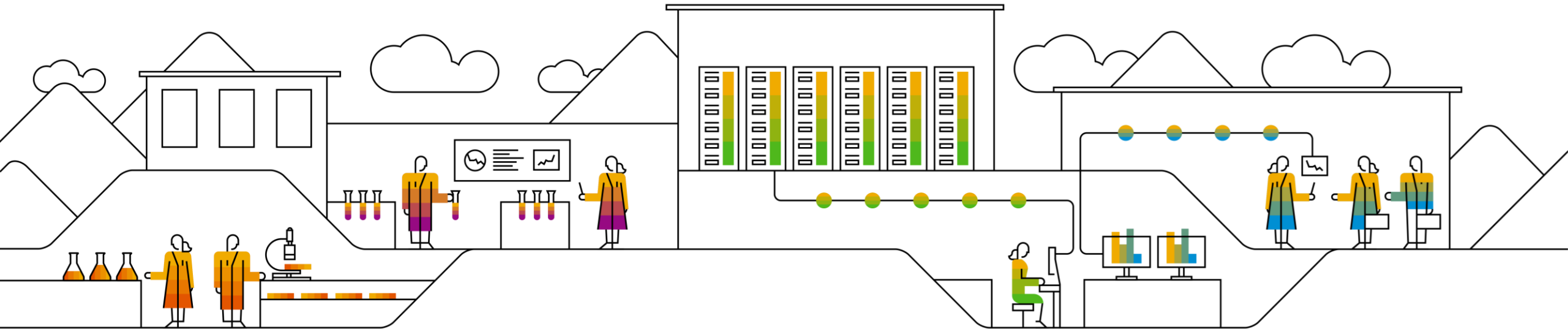
- Just regular key figures at new planning level:
  - Business Meaning is same as before: “Confirmed Quantity” and “Requested Quantity”

Requested Qty			Confirmed Qty		
REQQTY			CONFQTY		
Description: Requested Qty	Base Planning Level: LOCPRODCUSTDSFULFILLDAILY	Type:	Description: Confirmed Qty	Base Planning Level: LOCPRODCUSTDSFULFILLDAILY	Type:

- Forecast Model
  - Confirmed Quantity / Requested Quantity is aggregated to the demand sensing run planning level (combination)

# SAP Integrated Business planning for inventory

Alexis Lozada



# Improved user experience in SAP Fiori app Inventory Analysis

- New algorithm function “Multi-Stage Optimization and Target Inventory Components” generates comprehensive scenario planning outputs in a single inventory analysis.
  - The new algorithm function combines existing algorithm functions “Global (multistage) inventory optimization” and “Calculate Target Inventory Components” in a sequential single run.
- When creating an analysis, adding an output key figure displays selections for compatible and incompatible key figures with the selected Function. This compatibility key figure feature will improve accurate construction of inventory analyses,
- A user can share an analysis with other users and/or user groups:
  - For both Input and Output Views, in the Side Panel under Information tab, a Sharing section contains two controls to share an analysis with users and/or user groups.
  - List Manager includes a column named Shared displaying symbols indicating Shared with Me, Shared by Me and Shared with a Group.
  - Filter Bar in List Manager includes a filter named Sharing.

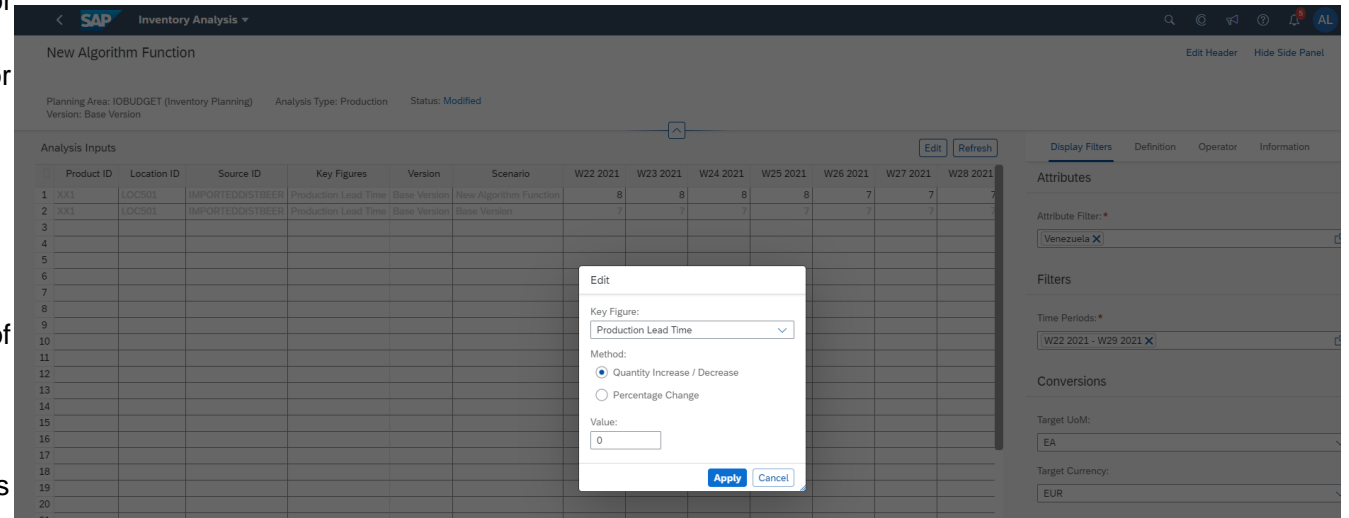
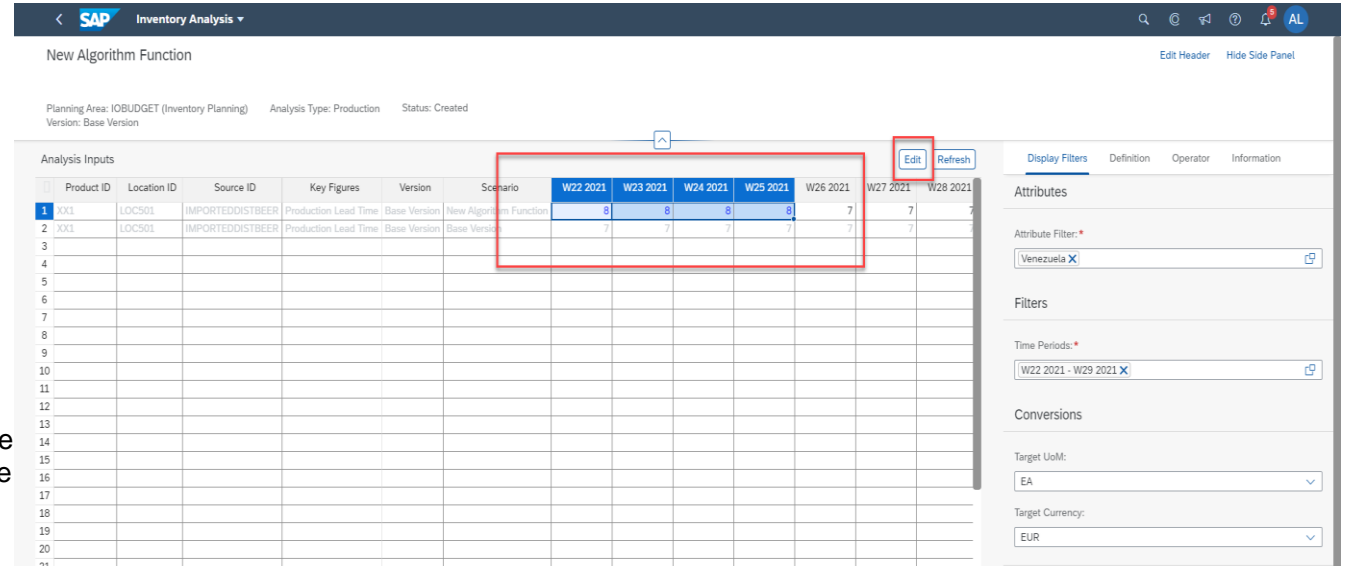
The screenshot shows the 'New Analysis' form in the SAP Fiori app. The 'Function' dropdown is open, displaying a list of functions. The 'Multi-Stage Optimization and Target Inventory Components' function is selected. The 'Planning Area' is set to 'IOBUDGET (Inventory Planning)' and the 'Analysis Type' is 'Demand'.

The screenshot shows the 'Inventory Analysis' list manager. The 'Sharing' column is highlighted, showing symbols for 'Shared with Me', 'Shared by Me', and 'Shared with a Group'. The 'Filter Bar' at the top includes a 'Sharing' filter.

Name	Description	Planning Area	Version	Analysis Type	Function	Status	Shared	Created By	Created On
J3N2105D V3SPECMD IOPOLICY 52WK MSIO + IC		J3N2105D (J3N2105D)	V3SPECMD	Inventory policy	Multi-Stage Optimization and Target Inventory Components	Completed		Jennifer Petersen	06/01/2021
Output KF Create View Test - MSIO+IC		ABCCO215 (Inventory Planning)	Base Version	Production	Multi-Stage Optimization and Target Inventory Components	Completed		Alexis Lozada	05/25/2021
Output KF Create View Test - SSIO		ABCCO215 (Inventory Planning)	Base Version	Inventory policy	Decomposed (single-stage) inventory optimization	Completed		Alexis Lozada	05/25/2021
Output KF Create View Test - IC		ABCCO215 (Inventory Planning)	Base Version	Transportation	Calculate Target Inventory Components	Completed		Alexis Lozada	05/25/2021
Output KF Create View Test - MSIO		ABCCO215 (Inventory Planning)	Base Version	Demand	Global (multistage) inventory optimization	Completed		Alexis Lozada	05/25/2021
J3I2011 BASE DMD MSIO TEST CATALOG CORRECTION		J3I2011 (J3I2011)	Base Version	Demand	Global (multistage) inventory optimization	Modified		Tester Tester3	04/09/2021
ztestanalysis		ABCCO2011 (Inventory Planning)	Base Version	Demand	Global (multistage) inventory optimization	Completed		Vijay Venugopal	04/07/2021
Test MSIO+IC		ABCCO215 (Inventory Planning)	Base Version	Demand	Multi-Stage Optimization and Target Inventory Components	Completed		Alexis Lozada	04/06/2021
Test Grid Table		ABCCO215 (Inventory Planning)	Base Version	Demand	Multi-Stage Optimization and Target Inventory Components	Completed		Alexis Lozada	04/03/2021
znevanalysis		ABCCO2011 (Inventory Planning)	Base Version	Demand	Global (multistage) inventory optimization	Completed		Vijay Venugopal	09/14/2020
Test List Report 4		J3B1905LP (J3B1905LP - LOOP - NO CALC KF - NOT NORM)	Base Version	Demand	Global (multistage) inventory optimization	Failed		Alexis Lozada	08/20/2020
1st PO Test		ABCCO2005 ()	1860	Inventory policy	Global (multistage) inventory optimization			Alexis Lozada	06/16/2020

# Improved user experience in SAP Fiori app Inventory Analysis (cont'd)

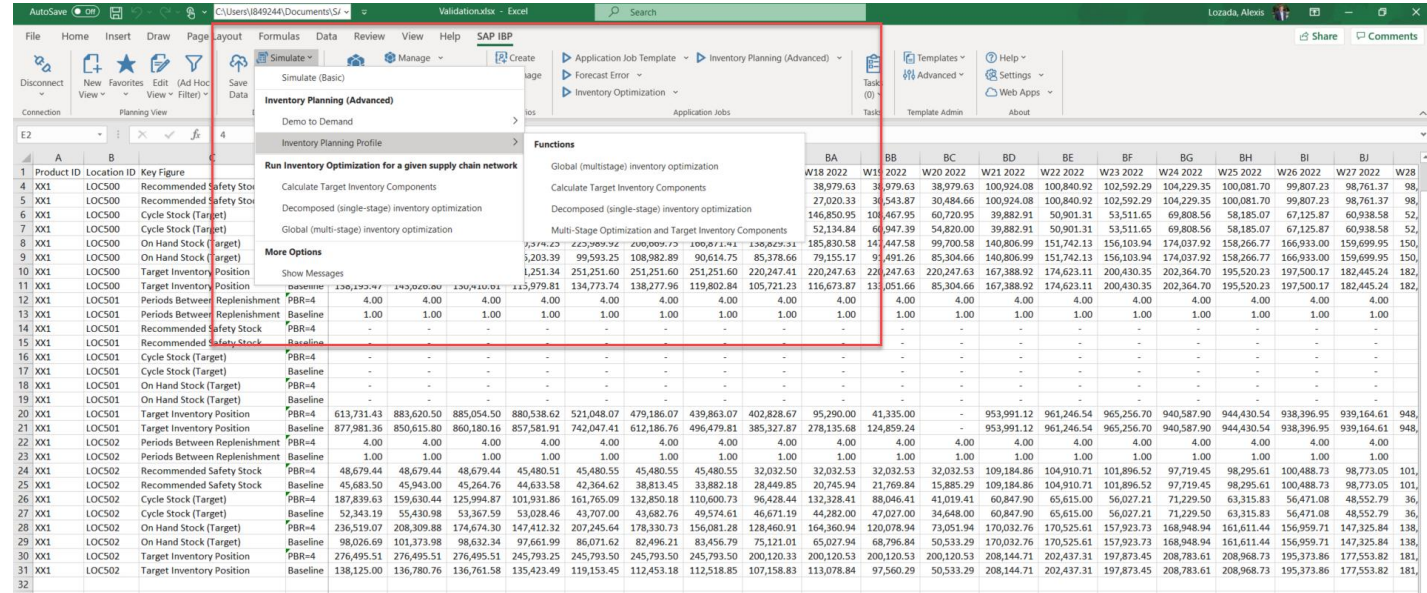
- For editable input key figures, in the Input View grid table, a user can copy a cell value across multiple cells:
  - Copying a cell value consists of dragging the cell using the visible dot in the lower left corner of the cell.
  - For rows, copying a cell value can be done from either left to right or right to left.
  - For columns, copying a cell value can be done from top to bottom or from bottom to top. Baseline input key figures do not get edited when copying a cell value in columns
  - The copy cell value function respects Edit Allowed configuration of selected key figures.
- Added Edit button to the Input View grid table in order to modify input key figure values globally. When clicking the Edit button, a pop-up window displays where user can:
  - select an input key figure from a drop-down control,
  - select a method to apply input values globally: Quantity Increase/Decrease or Percentage Change,
  - define a value to apply per selected Method; positive or negative decimals for the Quantity Increase/Decrease Method, positive decimals for the Percentage Change Method,
  - click Apply to modify selected input KF input values across all attribute combinations and horizons. Click Cancel to return to the Input View.
- Notes:
  - The Percentage Change Method modifies values relative to the current value. A value of 100 results in no change to the current value. A value of 120 results to multiplying the current value by a 1.2 factor.
  - Percentage input allows non-negative values only; zero is permitted to clear all data.
  - For the Quantity Increase/Decrease Method, if the resulting edited value is a negative number, the value will be reset to zero.





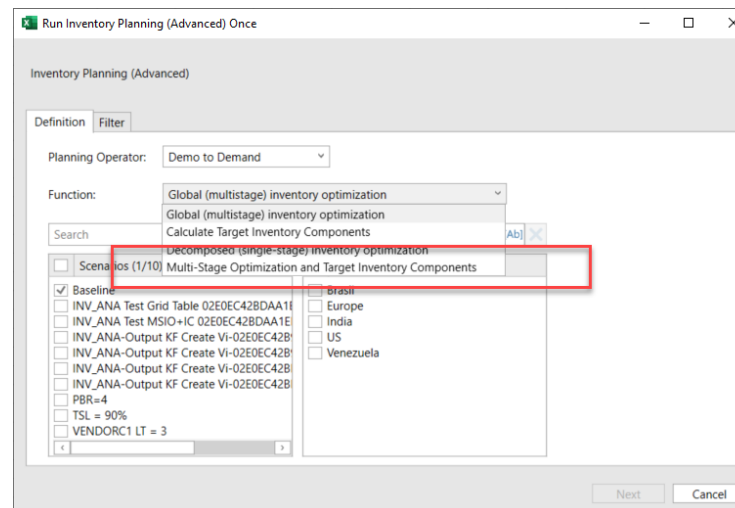
# Simplifying inventory user experience running simulations or scenarios in Excel UI

- A user can run simulations in SAP IBP, add-in for Microsoft Excel planning views using inventory profiles.
- Same as Fiori app Inventory Analysis, new algorithm function “Multi-Stage Optimization and Target Inventory Components” generates comprehensive scenario planning outputs in a single inventory analysis:
  - Supports batch, scenario and simulation runs.
  - Use for Application Job Templates.
  - Scheduling in Application jobs.
- Note: Upgrade to 2108 SAP IBP, add-in for Microsoft Excel required.



The screenshot shows the SAP IBP Excel add-in interface. The 'Inventory Planning (Advanced)' ribbon is active, displaying various simulation and optimization options. A red box highlights the 'Functions' section, which includes 'Global (multistage) inventory optimization', 'Calculate Target Inventory Components', 'Decomposed (single-stage) inventory optimization', and 'Multi-Stage Optimization and Target Inventory Components'. Below this, a table displays simulation results for various inventory profiles across different time periods (W18 2022 to W28 2022).

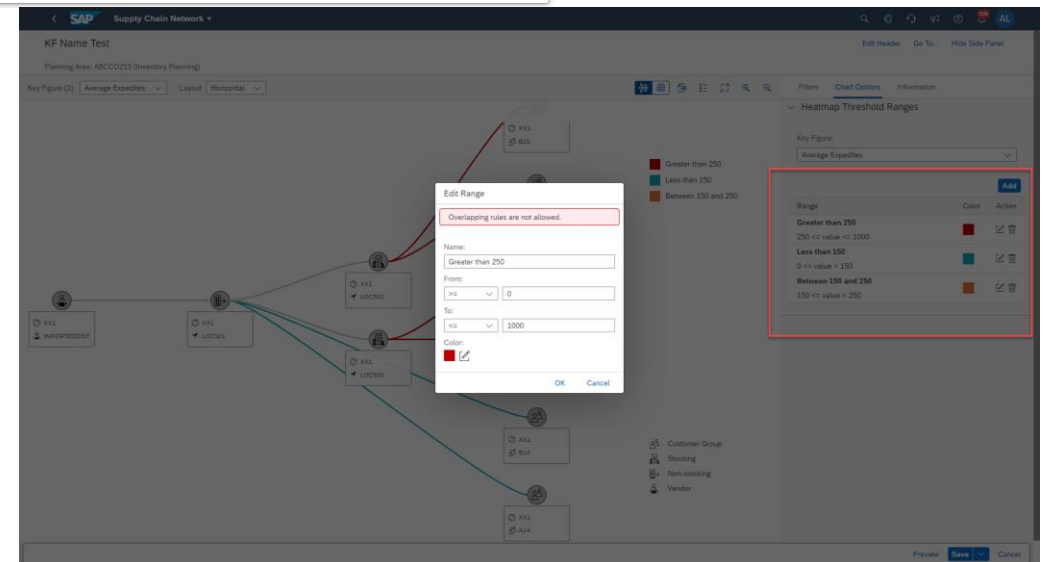
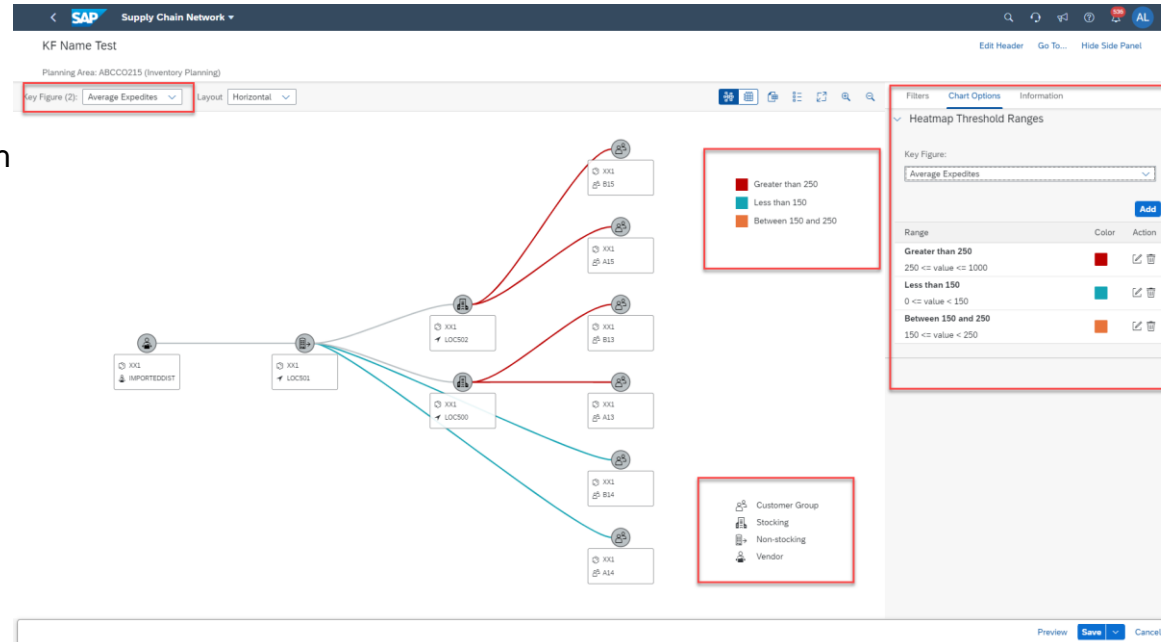
	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	W28
W18 2022	38,979.63	38,979.63	38,979.63	100,924.08	100,924.08	102,592.29	104,229.35	100,081.70	99,807.23	98,761.37	98
W19 2022	27,020.33	30,543.87	30,484.66	100,924.08	100,924.08	102,592.29	104,229.35	100,081.70	99,807.23	98,761.37	98
W20 2022	146,850.95	104,467.95	60,720.95	39,882.91	50,901.31	53,511.65	69,808.56	58,185.07	67,125.87	60,938.58	52
W21 2022	52,134.84	64,947.39	54,820.00	39,882.91	50,901.31	53,511.65	69,808.56	58,185.07	67,125.87	60,938.58	52
W22 2022	185,830.58	147,447.58	99,700.58	140,806.99	151,742.13	156,103.94	174,037.92	158,266.77	166,933.00	159,699.95	150
W23 2022	1,203.39	99,593.25	108,982.89	90,614.75	85,378.66	79,155.17	97,491.26	85,304.66	140,806.99	151,742.13	156,103.94
W24 2022	1,251.34	251,251.60	251,251.60	251,251.60	220,247.41	220,247.41	220,247.41	167,388.92	174,623.11	200,430.35	202,364.70
W25 2022	113,979.81	134,773.74	138,277.96	119,802.84	105,721.23	116,673.87	131,051.66	85,304.66	167,388.92	174,623.11	200,430.35
W26 2022	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
W27 2022	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
W28 2022	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
W29 2022	-	-	-	-	-	-	-	-	-	-	-
W30 2022	-	-	-	-	-	-	-	-	-	-	-
W31 2022	-	-	-	-	-	-	-	-	-	-	-
W32 2022	-	-	-	-	-	-	-	-	-	-	-
W33 2022	-	-	-	-	-	-	-	-	-	-	-
W34 2022	-	-	-	-	-	-	-	-	-	-	-
W35 2022	-	-	-	-	-	-	-	-	-	-	-
W36 2022	-	-	-	-	-	-	-	-	-	-	-
W37 2022	-	-	-	-	-	-	-	-	-	-	-
W38 2022	-	-	-	-	-	-	-	-	-	-	-
W39 2022	-	-	-	-	-	-	-	-	-	-	-
W40 2022	-	-	-	-	-	-	-	-	-	-	-
W41 2022	-	-	-	-	-	-	-	-	-	-	-
W42 2022	-	-	-	-	-	-	-	-	-	-	-
W43 2022	-	-	-	-	-	-	-	-	-	-	-
W44 2022	-	-	-	-	-	-	-	-	-	-	-
W45 2022	-	-	-	-	-	-	-	-	-	-	-
W46 2022	-	-	-	-	-	-	-	-	-	-	-
W47 2022	-	-	-	-	-	-	-	-	-	-	-
W48 2022	-	-	-	-	-	-	-	-	-	-	-
W49 2022	-	-	-	-	-	-	-	-	-	-	-
W50 2022	-	-	-	-	-	-	-	-	-	-	-
W51 2022	-	-	-	-	-	-	-	-	-	-	-
W52 2022	-	-	-	-	-	-	-	-	-	-	-
W53 2022	-	-	-	-	-	-	-	-	-	-	-
W54 2022	-	-	-	-	-	-	-	-	-	-	-
W55 2022	-	-	-	-	-	-	-	-	-	-	-
W56 2022	-	-	-	-	-	-	-	-	-	-	-
W57 2022	-	-	-	-	-	-	-	-	-	-	-
W58 2022	-	-	-	-	-	-	-	-	-	-	-
W59 2022	-	-	-	-	-	-	-	-	-	-	-
W60 2022	-	-	-	-	-	-	-	-	-	-	-
W61 2022	-	-	-	-	-	-	-	-	-	-	-
W62 2022	-	-	-	-	-	-	-	-	-	-	-
W63 2022	-	-	-	-	-	-	-	-	-	-	-
W64 2022	-	-	-	-	-	-	-	-	-	-	-
W65 2022	-	-	-	-	-	-	-	-	-	-	-
W66 2022	-	-	-	-	-	-	-	-	-	-	-
W67 2022	-	-	-	-	-	-	-	-	-	-	-
W68 2022	-	-	-	-	-	-	-	-	-	-	-
W69 2022	-	-	-	-	-	-	-	-	-	-	-
W70 2022	-	-	-	-	-	-	-	-	-	-	-
W71 2022	-	-	-	-	-	-	-	-	-	-	-
W72 2022	-	-	-	-	-	-	-	-	-	-	-
W73 2022	-	-	-	-	-	-	-	-	-	-	-
W74 2022	-	-	-	-	-	-	-	-	-	-	-
W75 2022	-	-	-	-	-	-	-	-	-	-	-
W76 2022	-	-	-	-	-	-	-	-	-	-	-
W77 2022	-	-	-	-	-	-	-	-	-	-	-
W78 2022	-	-	-	-	-	-	-	-	-	-	-
W79 2022	-	-	-	-	-	-	-	-	-	-	-
W80 2022	-	-	-	-	-	-	-	-	-	-	-
W81 2022	-	-	-	-	-	-	-	-	-	-	-
W82 2022	-	-	-	-	-	-	-	-	-	-	-
W83 2022	-	-	-	-	-	-	-	-	-	-	-
W84 2022	-	-	-	-	-	-	-	-	-	-	-
W85 2022	-	-	-	-	-	-	-	-	-	-	-
W86 2022	-	-	-	-	-	-	-	-	-	-	-
W87 2022	-	-	-	-	-	-	-	-	-	-	-
W88 2022	-	-	-	-	-	-	-	-	-	-	-
W89 2022	-	-	-	-	-	-	-	-	-	-	-
W90 2022	-	-	-	-	-	-	-	-	-	-	-
W91 2022	-	-	-	-	-	-	-	-	-	-	-
W92 2022	-	-	-	-	-	-	-	-	-	-	-
W93 2022	-	-	-	-	-	-	-	-	-	-	-
W94 2022	-	-	-	-	-	-	-	-	-	-	-
W95 2022	-	-	-	-	-	-	-	-	-	-	-
W96 2022	-	-	-	-	-	-	-	-	-	-	-
W97 2022	-	-	-	-	-	-	-	-	-	-	-
W98 2022	-	-	-	-	-	-	-	-	-	-	-
W99 2022	-	-	-	-	-	-	-	-	-	-	-
W100 2022	-	-	-	-	-	-	-	-	-	-	-



The screenshot shows the 'Run Inventory Planning (Advanced) Once' dialog box. The 'Definition' tab is selected. The 'Planning Operator' is set to 'Demo to Demand'. The 'Function' is set to 'Global (multistage) inventory optimization'. The 'Search' field is empty. The 'Scenarios (1/10)' list includes 'Baseline', 'INV\_ANA Test Grid Table 02E0EC42BDA11', 'INV\_ANA Test MSIO+IC 02E0EC42BDA11', 'INV\_ANA-Output KF Create Vi-02E0EC42B', 'INV\_ANA-Output KF Create Vi-02E0EC42B', 'INV\_ANA-Output KF Create Vi-02E0EC42B', 'INV\_ANA-Output KF Create Vi-02E0EC42B', 'PBR=4', 'TSL = 90%', and 'VENDORC1 LT = 3'. The 'Next' button is highlighted.

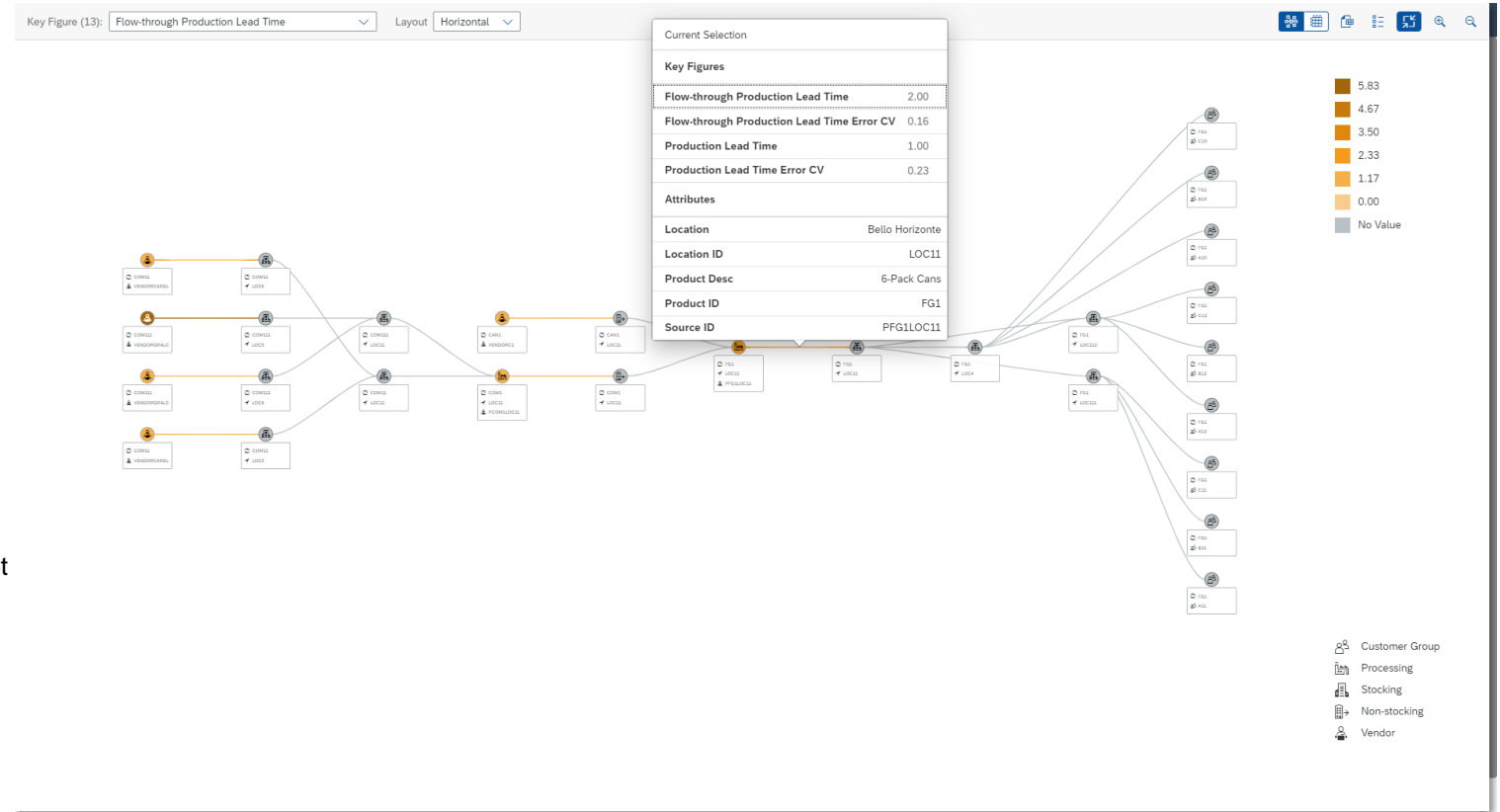
# Customizable heat map legend in the SAP Fiori app Supply Chain Network

- A user can customize colors and value ranges of heatmap legends.
- With Heatmap Threshold Ranges under Charts Options of the Side Panel, for each key figure selection, a user can add ranges of values and colors.
  - Ranges defined can be edited or deleted.
  - Editing Ranges include overlapping rules.
- The customization will modify the legend and the rendered heat map on the network chart.
- In addition, the Icon legend has been modified to:
  - display icons rendered in chart only, e.g., the icon legend will not display a Product Node or Transformation Node if Product ID and Location ID filtered selections do not include them,
  - be positioned in a more separate space under the Heatmap legend in order to improve readability.



# Non-stocking push algorithm logic for handling multiple sources of supply

- Increase precision in inventory planning results when handling non-stocking locations with multiple sources of supply.
- Inventory algorithm pushes lead time, lead-time variability, and lot size inputs from multiple sources of supply across non-stocking locations.
- For non-stocking transportation locations A and B sourcing stocking location C:
  - Recommended Safety Stock at location C will change driven by pushed lead time, lead time variability, and lot size, weighted by input sourcing ratios of locations A and B.
  - Re-Order Point changes at location C driven by changes in Recommended Safety Stock.
- For non-stocking component locations A and B sourcing a transformation location X, which in turn, sources stocking location C of a finished material:
  - The inventory algorithm pushes lead time, lead time variability, lot size inputs, and component non-stock out probability of bottle neck location; location with longest lead time.
  - Recommended Safety Stock at location C will change driven by pushed lead time, lead time variability, lot size, and component non-stock out probability of the bottle neck component location.
  - Re-Order Point changes at location C driven by changes in Recommended Safety Stock.
- Impacted inventory functions:
  - Global (multistage) inventory optimization
  - Calculate Target Inventory Components
  - Multi-Stage Optimization and Target Inventory Components
- For the 2108 release, this feature is released in “opt-in” basis, hence, customers are required to open an incident to set the Inventory Technical Parameter SCAL\_EXTENDED\_NONSTOCK\_PUSH to a value equal to YES; NO is the default parameter value.



SAP Global Configuration

Settings

All Parameters (442) Business Parameters (140) Technical Parameters (302)

SCAL\_EXTENDED\_NONSTOCK\_PUSH

Parameter Name	Value	Default Value	Historical Entries
Parameter Group: INVENTORY			
SCAL_EXTENDED_NONSTOCK_PUSH	YES	NO	1

# Key Announcement for upcoming IBP 2111 Release: Migrating to Planning Profile Framework

The SAP IBP 2111 release upgrade will deliver a migration script that will move existing inventory operator framework to an inventory planning profile framework for the following:

- Standard inventory operators:
  - Global (multistage) inventory optimization
  - Calculate Target Inventory Components
  - Decomposed (single-stage) inventory optimization
- Customized inventory operators: Any inventory operator with a unique name and a defined planning horizon.

For an existing planning area configured with the standard inventory operators only, the migration script will create a single inventory profile named “Inventory Planning Profile” with a planning horizon equal to the existing planning area’s defined planning horizon.

For an existing planning area configured with customized inventory operators, the migration script will create an inventory profile for each customized inventory operator with a name equal to the name of the customized operator and a planning horizon equal to the customized operator’s defined planning horizon.

For an existing planning area configured with inventory planning profiles, existing standard inventory operators, and customized inventory operators, the migration script will:

- For the existing standard inventory operators, create a single inventory profile named “Inventory Planning Profile\_SAP” with a planning horizon equal to the existing planning area’s defined planning horizon.
- For each customized inventory operator, create an inventory profile named after the name of the customized inventory operator with a planning horizon equal to the customized operator’s defined planning horizon.
- Keep existing configured inventory planning profiles as is.

In SAP IBP, add-in for Microsoft Excel, under Application Jobs, Inventory Optimization ribbon in Application Jobs, the standard inventory operators:

- can be scheduled if version is 2005 or older.
- will be visible but can not be scheduled if version is between 2008 and 2105.
- will not be visible with version 2108 and future version releases.

In SAP IBP, add-in for Microsoft Excel, under Data Input Simulate, section Run Inventory Optimization for given supply chain network, the standard inventory operators:

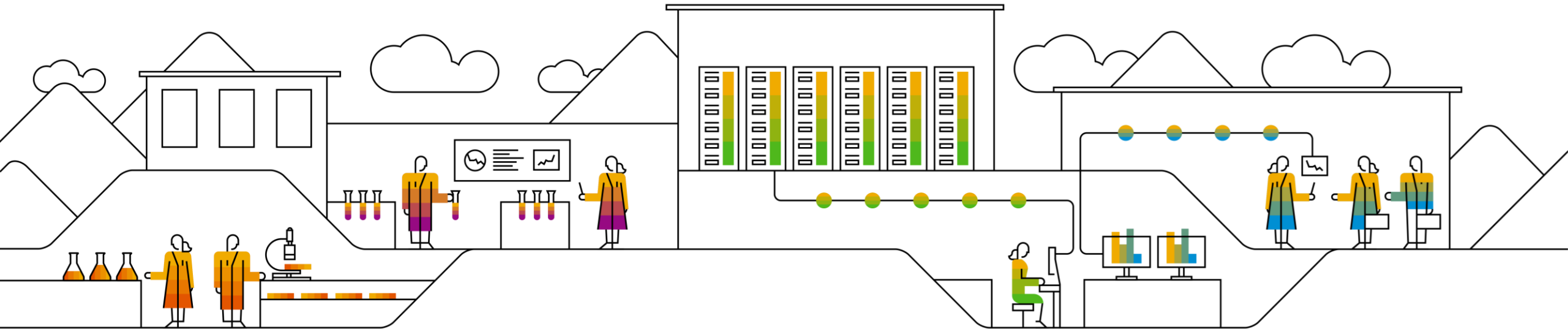
- can be scheduled if version is 2105 or older.
- will not be visible with version 2108 and future version releases.

- For a scheduled Application Jobs run using an Application Job Template configured with an existing standard inventory operator or a customized inventory operator, the script will migrate such with the applicable inventory profile created.
- Scheduling a new Application Job run using an Application Job Template configured with an existing standard inventory operator or a customized inventory operator will not be supported.

Note: The migration script can not remove custom application job templates.

# SAP Integrated Business Planning for Demand-Driven Replenishment

Poorya Farahani



## What's new in IBP 2108

1. Possibility to run ADU operator with packaging
2. Support min-max buffer thresholds as input
3. Support a new IBP-ERP integrated scenario for DDMRP

# Average Daily Usage (ADU)

## Packaging

To improve performance of ADU operator planners can set packaging parameter in the *Global Configuration* app

The screenshot shows the SAP Global Configuration app interface. At the top, there is a dark blue header bar with the SAP logo, a back arrow, and the text 'Global Configuration'. To the right of the header are several icons: a magnifying glass, a copyright symbol, a speech bubble, a question mark, a bell, and a blue circle with a white 'F'. Below the header, the word 'Settings' is displayed. The main content area is titled 'Items (2)' and contains a table with two columns: 'Parameter Name' and 'Value'. The first row of the table is for the 'Parameter Group: DDR' and shows the parameter 'NUMBER\_OF\_PROCESSING\_PACKAGES' with a value of '5'. The second row is for the 'Default Value' and shows a value of '1'. Both the 'Value' and 'Default Value' columns are highlighted with orange boxes. To the right of the table, there is a search bar with the text 'DDR' and a magnifying glass icon. Next to the search bar are buttons for 'Edit', 'Reset to Default', and a gear icon.

Parameter Name	Value	Default Value
Parameter Group: DDR		
NUMBER_OF_PROCESSING_PACKAGES	5	1

By default, all location-products will be processed in 1 package, but the user can provide a new value to split location-products to multiple packages.

- In case of any invalid entry, the default value of 1 is used (there is no validation on the field)

Note that this packaging setting is only available for the ADU operator (this setting does not impact other DDR operators)



# Average Daily Usage (ADU)

## Packaging

Planners can also decide to disable the packaging when running the ADU operator as an application job (this feature is not available in Excel yet).

SAP

New Job: Demand-Driven Replenishment Operator

F

Demand-Driven Replenishment Operator

1

Template Selection

2

Scheduling Options

3

Parameters (Optional)

3. Parameters

Parameter Section

General

Planning Operator Type:

Planning Area: \*

Planning Operator: \*

Version: \*

Scenario:

Subnetwork:

Planning Filter:

Disable Packaging: ☐

Sharing Information

Share With:

Reason Code:

Comment:

Other Parameters

Date:

Current Period Calculation:

Time:

Time Zone:

# Average Daily Usage (ADU)

## Packaging

Planners can also review in application log (or the excel log) how many packages were used in the ADU operator and how many product-locations were included in each package.

< SAP Application Logs

06/11/2021 09:21:36.548

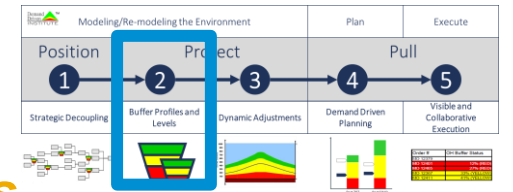
No details provided.

Area: /IBP/DDR Sub Area: DDR Created By: External Identifier: 231041

Log Items (62) Severity: <div></div>							
Date and Time	Severity	Message	Long Text	External Identifier	Area	Sub Area	Attachment
06/11/2021 09:21:36.742	Information	Current period initialized with time stamp 2021-06-11T07:21:36 and time zone UTC			Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:36.841	Information	Job Demand-Driven Replenishment Operator started		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:36.847	Information	Job is based on job template Demand-Driven Replenishment Operator.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:36.852	Information	Application job name is 02E0EC42B8EA1EDBB2D0B4EF8779A7E1, count ardHRXeK.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:36.857	Information	Execution of job 231041 begins.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:36.898	Information	Data preparation to execute Calculate Average Daily Usage in planning area BVHDDMRP started.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:37.112	Information	Planning area base date is 2021-06-11.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:37.118	Information	Executing with sequential packaging.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:39.124	Information	Number of packages is 5		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:39.237	Information	Time stamp 2021-06-11T07:21:36 and time zone UTC used for current period		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:39.588	Information	Current period initialized with time stamp 2021-06-11T07:21:36 and time zone UTC		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:39.683	Information	Execution with __BASELINE version and __PLAN scenario started.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:39.688	Information	Package number is 1		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:40.073	Information	Number of location product is 36.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:40.819	Information	Outlier correction has been run on input data for average daily usage.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	
06/11/2021 09:21:40.862	Information	Outlier correction has been run on input data for coefficient variation.		231041	Demand-Driven Replenishment	Demand-Driven Replenishment	

# Strategic Inventory Positioning and Buffer Sizing

Operator considers minimum and maximum levels for red and green zones



Four attributes are defined on location-product MD to define min and/or max level for red and green zones (these attributes are not assigned to the planning area by default).

If user does not upload values in these attributes, the operator assumes no limit on red and green zones.

SAP Sample Model Entities

Location Product  
IBPLOCATIONPRODUCT

Description: Location Product, Type: Compound, Master Data Types: 0, Planning Areas: 7

Component Master Data Types

ID	Name
IBPLOCATION	Location
IBPPRODUCT	Product

Assigned Attributes

Assigned Attributes

ID	Name	Key	Required	Personal Data
MAXGREENZONEQTY	Maximum Green Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAXREDZONEQTY	Maximum Red Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MINGREENZONEQTY	Minimum Green Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MINREDZONEQTY	Minimum Red Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

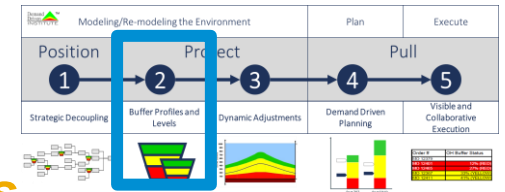
Attribute Checks

Attribute Checks

Check Master Data Type	Check Attribute	Assigned Attribute
IBPPLANNINGUNIT	PLUNITID	PLUNITID

# Strategic Inventory Positioning and Buffer Sizing

Operator considers minimum and maximum levels for red and green zones



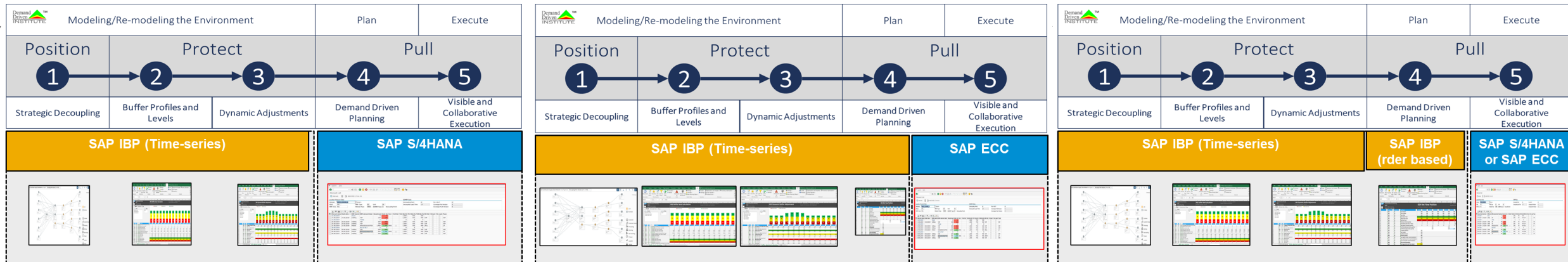
- Attributes MINGREENZONEQTY and MAXGREENZONEQTY (and/or MINREDZONEQTY, MAXREDZONEQTY) ensure that operator results for KF GREENZONE (and/or KF REDZONE) outside these thresholds are automatically adjusted to these thresholds (if provided).
- Invalid inputs, e.g. negative values, or MINGREENZONEQTY > MAXGREENZONEQTY, are ignored by the operator.
- These attributes support several use-cases such as:
  - For new products without sufficient history, without these boundaries, red/green zone output might be very variable across periods
  - For intermittent items where red zone can become very large due to the variability in demand
  - For products where investment in safety (red zone), or stock in between replenishment periods (green zone) must be restricted irrespective of variability or lead time factors

ID	Name	Key	Required	Personal Data
MAXGREENZONEQTY	Maximum Green Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAXREDZONEQTY	Maximum Red Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MINGREENZONEQTY	Minimum Green Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MINREDZONEQTY	Minimum Red Zone Quantity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Integrated DDMRP scenarios Between SAP IBP-SAP S/4HANA/SAP ECC

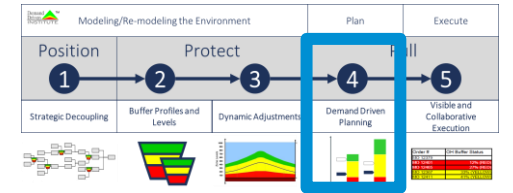
## Alternative Scenarios for Supply Order Generation

- Before 2108 SAP offered two implementation scenarios for realizing integrated DDMRP scenario across IBP and the ERP system, based on the preferred target system for the supply order generation (and execution)
  1. Supply order generation in SAP S/4HANA Demand-Driven Replenishment (and execution in SAP S/4HANA)
  2. Supply order generation in SAP ECC (and execution in SAP ECC)
  3. **Supply order generation in IBP Response and Supply (and execution in SAP ERP)**

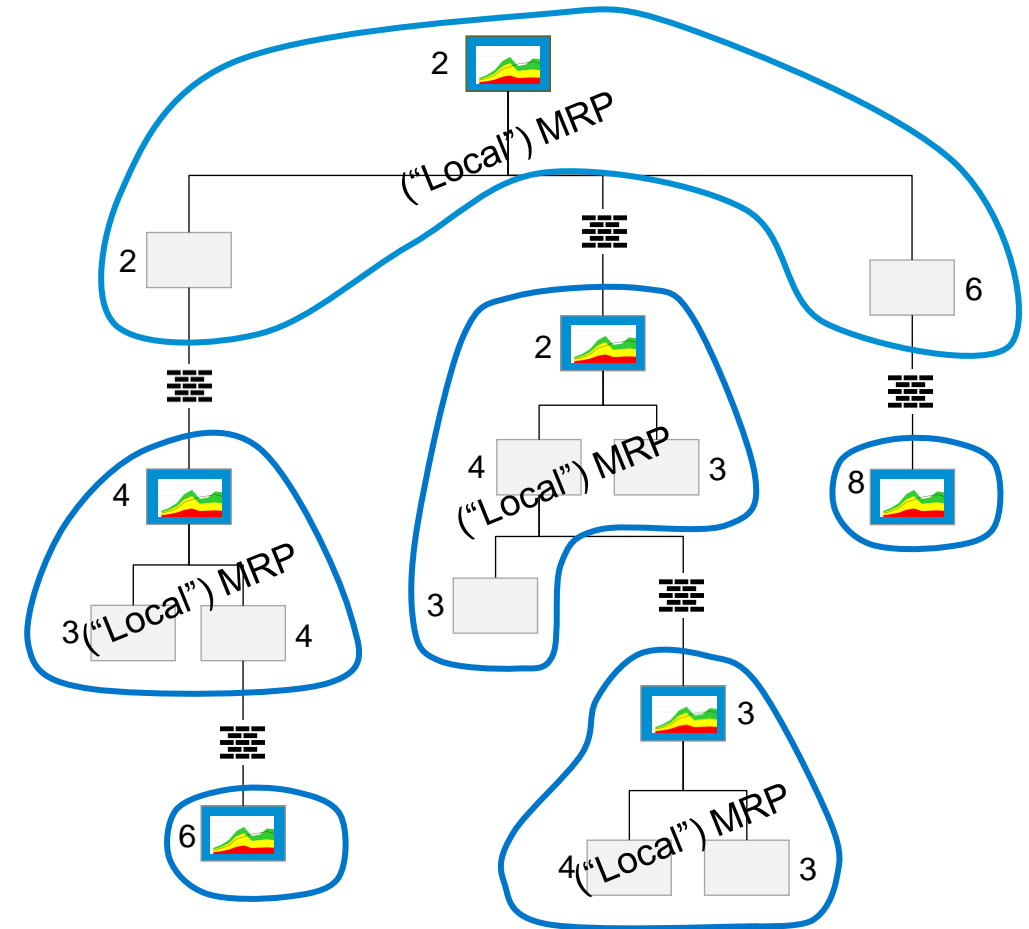


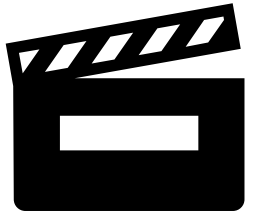
# Demand-driven Planning

## DDMRP Heuristics in IBP Order-Based Planning



- DDMRP run in OBP is performed over the entire relevant network of PROD-LOCs (Running DDMRP on a subnetwork will plan all PROD-LOCs that are related to any of the PROD-LOCs in the selected subnetwork)
- For decoupling points, replenishment elements are planned in the following two steps in sequence:
  1. Replenishment planning for the decoupled lead time (DLT)
  2. Replenishment planning beyond the DLT
- For non-decoupling points, replenishment elements are planned in one step

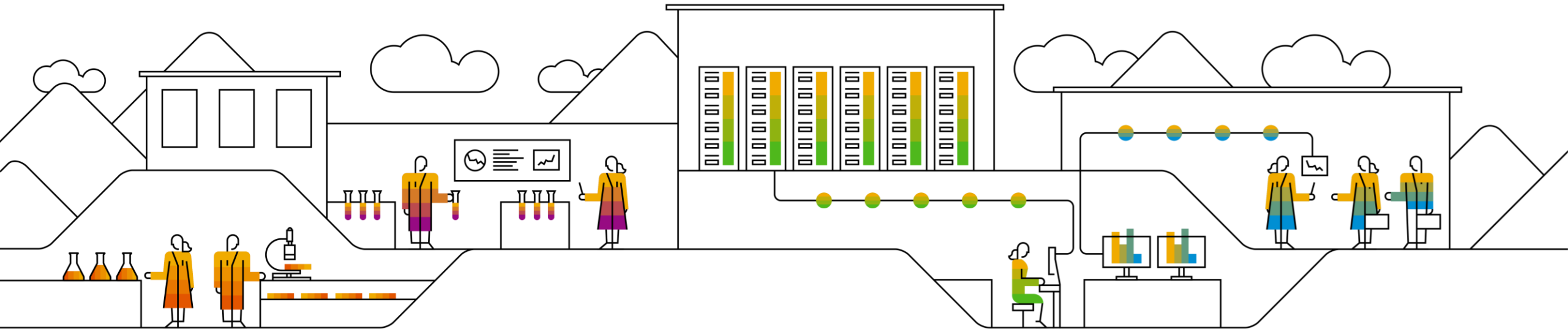




# System Demo

# Supply Chain Control Tower

## Jean Sebastien Boileau

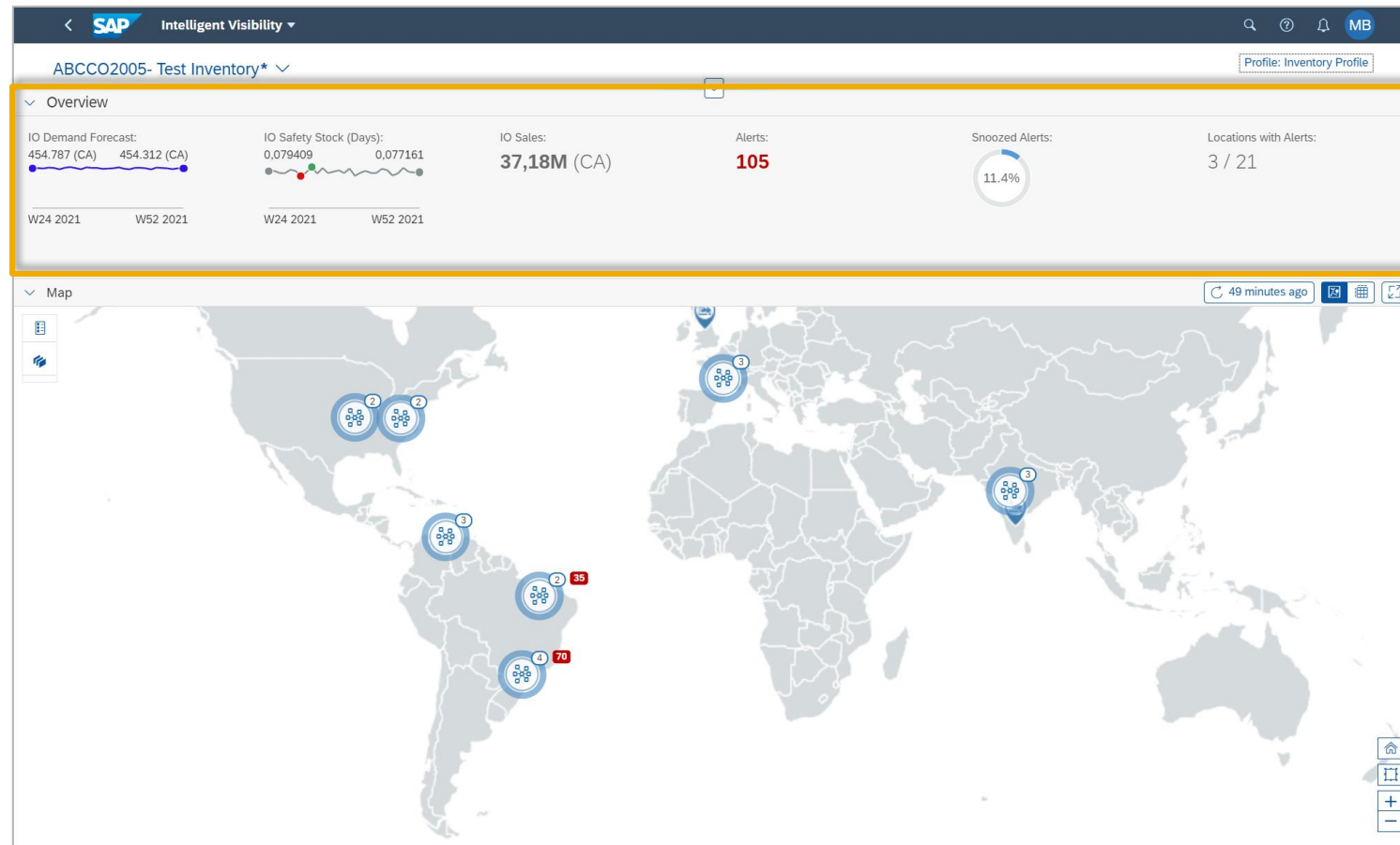




# Intelligent Visibility

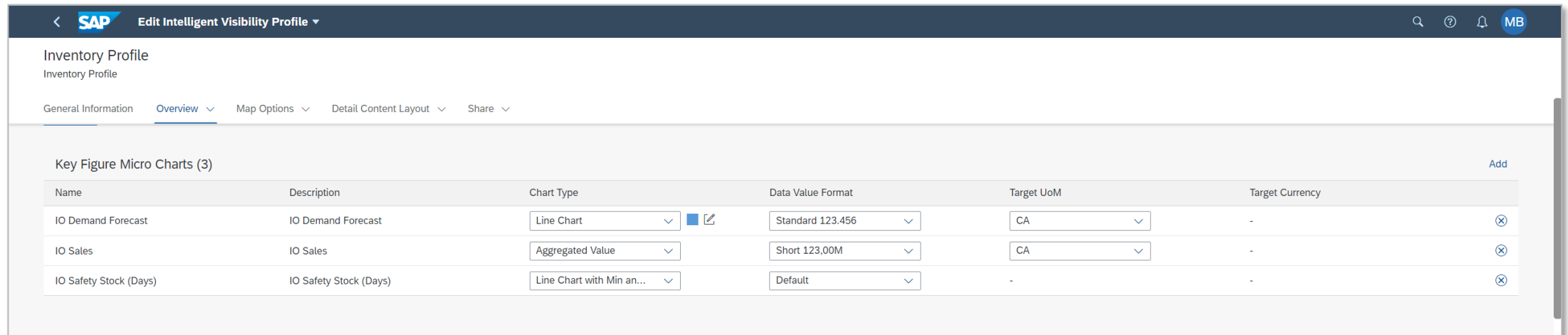
# Enhanced Intelligent Visibility overview with micro charts

The Intelligent Visibility overview can be enriched with micro charts to view a summary of important KPIs. The charts are optimized to use a small space and give users about the supply chain situation.



# Enhanced Intelligent Visibility overview with micro charts

Micro Charts are added in an *Intelligent Visibility Profile* app



The screenshot displays the SAP Intelligent Visibility Profile app interface. The top navigation bar includes the SAP logo, the title "Edit Intelligent Visibility Profile", and icons for search, help, notifications, and a user profile (MB). The main content area is titled "Inventory Profile" and "Inventory Profile". Below this, there are tabs for "General Information", "Overview" (selected), "Map Options", "Detail Content Layout", and "Share". The "Overview" tab shows a section titled "Key Figure Micro Charts (3)" with an "Add" button. Below this is a table with the following columns: Name, Description, Chart Type, Data Value Format, Target UoM, and Target Currency. The table contains three rows of data.

Name	Description	Chart Type	Data Value Format	Target UoM	Target Currency
IO Demand Forecast	IO Demand Forecast	Line Chart	Standard 123.456	CA	-
IO Sales	IO Sales	Aggregated Value	Short 123,00M	CA	-
IO Safety Stock (Days)	IO Safety Stock (Days)	Line Chart with Min an...	Default	-	-

# Define Key figure thresholds

You can now define key figure thresholds ranges and assign a specific colors to each range

Map Options

Key Figures (2) Add

Name	Description	Color	Data Value Format	
On Hand Stock (Average)	On Hand Stock (Average)	<div><div></div><div></div><div></div><div></div></div> <div></div>	Default	<div></div>
On Hand Stock (Target)	On Hand Stock (Target)		Default	<div></div>

Add Ranges for On Hand Stock (Average)

Ranges (3) Add

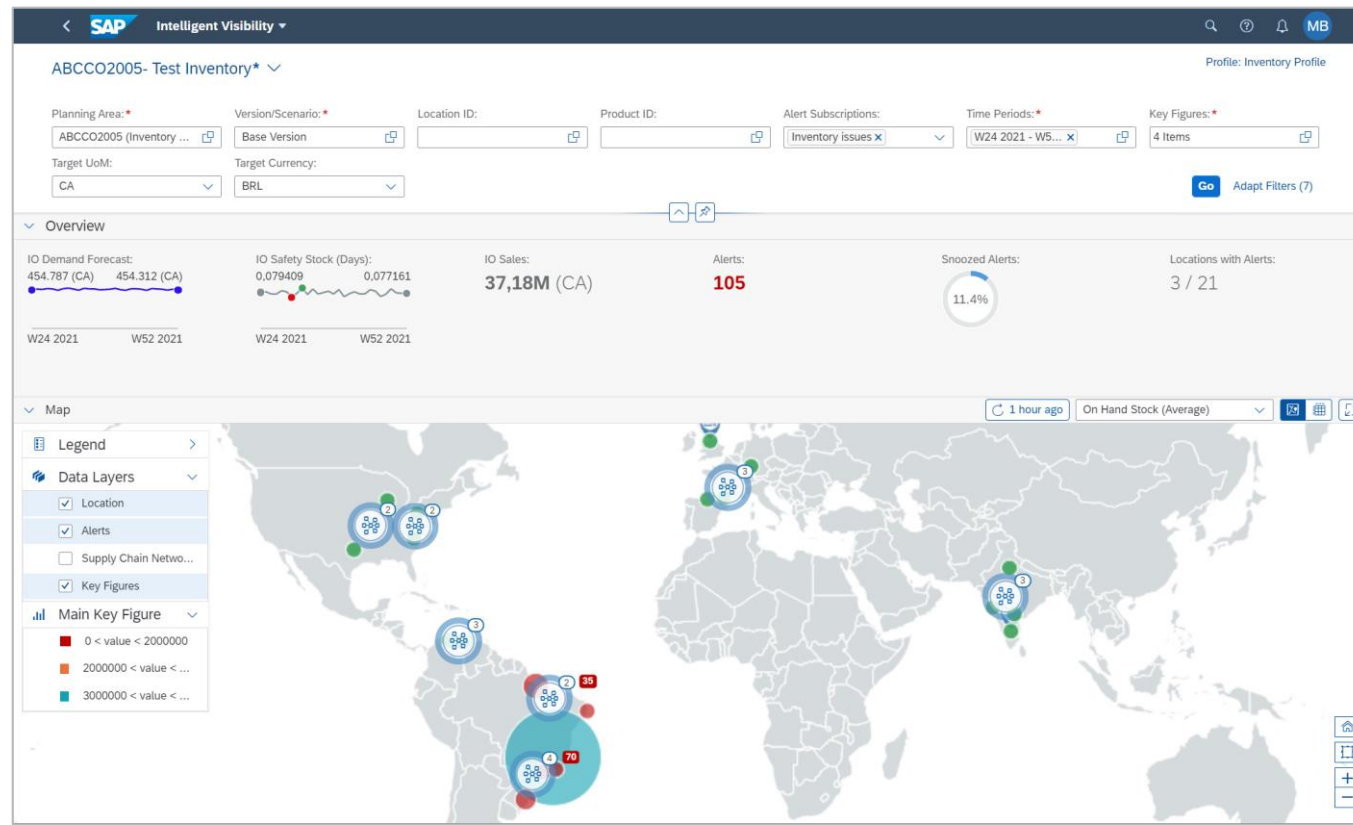
Range	Color	Action
<div>&lt;2000000</div> <div>0 &lt; value &lt; 2000000</div>	<div></div>	<div></div> <div></div>
<div>&lt;3000000</div> <div>2000000 &lt; value &lt; 3000000</div>	<div></div>	<div></div> <div></div>
<div>&lt;5000000</div> <div>3000000 &lt; value &lt; 5000000</div>	<div></div>	<div></div> <div></div>

OK

Cancel

## Define Key figure thresholds (2)

By applying the profile with the ranges and including the key figure, the key figure on the chart will change according to the values defined



# Custom Alerts

# Notification Relevant Indicator

When you create, copy, or edit custom alert subscriptions, you can now set certain subscriptions as notification relevant. You will receive notifications in the launchpad shell bar only for custom alerts that have been calculated for notification relevant subscriptions. Only notification relevant alerts will be included in notification emails.

Note :

- To have custom alert subscriptions that were created before 2108 as notification relevant, the value of the SUBSCRIPTION\_NOTIFICATION\_DFLT global parameter is set to YES in the **Global Configuration** app. The IBP administrator can set the value according as required.

The screenshot shows the 'Edit Custom Alert Subscription' interface in SAP. The title bar indicates 'SAP Edit Custom Alert Subscription'. The breadcrumb trail shows 'GF Confirmed Late / GF Confirmed Late'. The main content area has tabs for 'Information', 'Attribute Filters', 'Display Options', and 'Sharing'. The 'Information' tab is active, showing a form with the following fields:

- Name:** GF Confirmed Late
- Description:** (empty text area)
- Notification Relevant:** Yes (highlighted with a yellow box)
- Status:** Active

Below the form, there are sections for 'Attribute Filters' and 'Planning Filter'. The 'Attribute Filters' section has a table for 'Ad Hoc Attribute Filters' with columns 'Attribute', 'Operator', and 'Value'. The table is currently empty, with a message 'No ad hoc attribute filters have been added'. The 'Planning Filter' section has a dropdown menu for 'Planning Filter:' and a table for 'Planning Filter Attributes' with columns 'Attribute', 'Operator', and 'Value'. This table is also empty, with a message 'No planning filter attributes have been added'. At the bottom right, there are 'Save' and 'Cancel' buttons.

# Notification Email Enhancement

You can now use the **Maintain Email Templates** app to create a custom email template based on the **Email Template for Custom Alerts** template that is delivered by default (/IBP/ALERT\_SUMMARY\_EMAIL)

Note :

- If a custom email template has been created based on the delivered template, the administrator/configuration expert must enter the technical name of the custom email template as the value of the CUSTOM\_ALERTS\_SUMMARY\_TEMPLATE global parameter so that the custom template is used instead of the default template.

The screenshot shows the SAP 'Email Template Content' editor. The 'Email Subject' field contains: 'You have {{NumberOfHighAlerts}} High, {{NumberOfMediumAlerts}} Medium and {{NumberOfLowAlerts}} Low alerts t...'. The 'Body HTML' field contains the following HTML code:

```
<!DOCTYPE html>
<html>
<head>
<meta name="generator" content="HTML Tidy for HTML5 for ABAP version 5.6.0">
<title></title>
</head>
<body>
Dear user:<br>
<br>
Your attention is required. The following IBP custom alerts were calculated on {{AlertSummaryDateTime}}.<br>
<br>
<b>Alerts by Priority</b>
<ul>
<li><i>High: {{NumberOfHighAlerts}}</i></li>
<li><i>Medium: {{NumberOfMediumAlerts}}</i></li>
<li><i>Low: {{NumberOfLowAlerts}}</i></li>
</ul>
<b>Alerts by Subscription</b>
<ul>
{{AlertSubscriptionList}}
</ul>
<br>
To view your alerts, open the <a href="{{MonitorCustomAlertsURL}}">Monitor Custom Alerts</a> app.<br>
Make sure that your alert monitor is refreshed to show the latest alerts.<br>
Note that you need to be an IBP user to access the Monitor Custom Alerts app.
</body>
</html>
```

The bottom of the editor has buttons for 'Save', 'Discard Changes', 'Show Data Fields', 'HTML Tidy', 'Preview', and a share icon.



# Procedure Playbook

# Rating, Comments, Feedback and Usage

## Procedure Playbook - General

You can view the average rating as well as the individual ratings and comments that users provided for a procedure playbook while using it to resolve supply chain planning issues.

You can view the number of times a procedure playbook has been used while trying to resolve issues.

The screenshot displays the SAP Procedure Playbook interface for a playbook titled "Confirmed Late Alert Resolution". The interface includes a header with the SAP logo and a navigation bar. The main content area shows the playbook details, including a revision note, category, and planning area. A yellow box highlights the "Average Rating" (4.5 stars, 2 reviews) and "Usage" (20). Below this, a tabbed interface shows the "Ratings (2)" section, which is also highlighted with a yellow box. This section contains a table of individual ratings and comments.

Rating	Comment	Created By	Created On
★★★★★ (5 of 5)	I like how this playbook is presented. The steps are perfectly explained and gives enough background and actions to solve the alert. <a href="#">Less</a>		Jun 25, 2021, 4:05:42 pm
★★★★☆ (3 of 5)	This is a nice playbook version	Example Inventory...	May 31, 2021, 9:09:07 am

# Rating, Comments, Feedback and Usage

## Procedure Playbook - Activities

You can view the number of times an activity has been liked, disliked, or has been given a neutral rating.

You can view the number of times an activity with an action has been used while trying to resolve issues.

SAP

Procedure Playbook

Confirmed Late Alert Resolution

Resolution steps for customer demands that cannot be fulfilled

Edit

Copy

Delete

Detailed Description

Activities (5)

Ratings (2)

Where-Used List (3)

Sharing

Administrative Information

Activities (5)

Name	Description	Action	Feedback	Usage
Verify the status in Transportation Management	Take a look at the transportation management status. You should see a link in the gating factor if the STO or PO is managed via transportation management.		<div><div>1</div><div>1</div><div>0</div></div>	0
Review the Gating Factors	Gating factors are usually a good indicator where the problem occurs in the supply chain.	<a href="#">View Gating Factor</a>	<div><div>1</div><div>0</div><div>0</div></div>	1
Look at the supply at other DC	See if there are other DC's that has inventory. Take a look at the complementary chart in the alert to get an overview of the situation.	<a href="#">Inventory Overview Chart</a>	<div><div>0</div><div>1</div><div>0</div></div>	1
Review in Planner Workspace	Take a look at the data in more detail in planning workspace	<a href="#">Open Planner Workspace</a>	<div><div>0</div><div>0</div><div>1</div></div>	1
Accept delay and contact customer service team	Look at the number of days that the sales order is confirmed late. If it's less than 2 days contact sales to see if the customer can accept it.	<a href="#">Email Customer Service</a>	<div><div>1</div><div>0</div><div>0</div></div>	1

Sequential Activities: Off

# Sequential Activities

In a procedure playbook with multiple activities, where the the sequence of the activities is important, you can arrange them accordingly and define them as sequential activities.

SAP

Edit Procedure Playbook

Confirmed Late Alert Resolution (seq)

Resolution steps for customer demands that cannot be fulfilled

General Information

Detailed Description

Activities (5)

Ratings (1)

Where-Used List (2)

Sharing

Administrative Information

Activities (5)

Name	Description	Action	Feedback	Usage
Verify the status in Transportation Management	Take a look at the transportation management status. You should see a link in the gating factor if the STO or PO is managed via transportation management.		<div><div></div><div>0</div></div> <div><div></div><div>0</div></div> <div><div></div><div>0</div></div>	0
Review the Gating Factors	Gating factors are usually a good indicator where the problem occurs in the supply chain.	<a href="#">View Gating Factor</a>	<div><div></div><div>0</div></div> <div><div></div><div>0</div></div> <div><div></div><div>0</div></div>	0
Look at the supply at other DC	See if there are other DC's that has inventory. Take a look at the complementary chart in the alert to get an overview of the situation.	<a href="#">Inventory Overview Chart</a>	<div><div></div><div>0</div></div> <div><div></div><div>0</div></div> <div><div></div><div>0</div></div>	0
Review in Planner Workspace	Take a look at the data in more detail in planning workspace	<a href="#">Open Planner Workspace</a>	<div><div></div><div>0</div></div> <div><div></div><div>0</div></div> <div><div></div><div>0</div></div>	0
Accept delay and contact customer service team	Look at the number of days that the sales order is confirmed late. If it's less than 2 days contact sales to see if the customer can accept it.	<a href="#">Email Customer Service</a>	<div><div></div><div>0</div></div> <div><div></div><div>0</div></div> <div><div></div><div>0</div></div>	0

Sequential Activities

Save

Cancel



SAP

Monitor Custom Alerts

Active (1)

Snoozed (0)

All (1)

Key Figure 1

Value 1

Refresh Time

Sales Order Confirmed Late

51

now

Severity:

Low

Planning Area:

SAP72102C

Subscription:

GF Confirmed Late

Subscription Description:

Calculation Level:

Location ID: DC71

Location Type: P

Material Number: POC01\_PHONE\_A

Day: 06/04/2021

Snoozed:

Case:

Version / Scenario:

Base Version

Sales Order Confirmed Late

51

Snooze

Go To

Add to Case

Navigate To

Alert Charts (1)

Key Figures (4)

Procedure Playbooks (2)

Information

Sequential Activities

1. Verify the status in Transportation Management

Take a look at the transportation management status. You should see a link in the gating factor if the STO or PO is managed via transportation management.

0

0

0

2. Review the Gating Factors

Gating factors are usually a good indicator where the problem occurs in the supply chain.

0

0

0

View Gating Factor

3. Look at the supply at other DC

See if there are other DC's that has inventory. Take a look at the complementary chart in the alert to get an overview of the situation.

0

0

0

Inventory Overview Chart

4. Review in Planner Workspace

Take a look at the data in more detail in planning workspace

0

0

0

Open Planner Workspace

5. Accept delay and contact customer service team

Look at the number of days that the sales order is confirmed late. If it's less than 2 days contact sales to see if the customer can accept it.

0

0

0

Email Customer Service

# User Sharing – Write Access

When you share a procedure playbook with other users or user groups, you can give specific users and user groups write access so that they can edit the procedure playbook.

**Confirmed Late Alert Resolution**  
Resolution steps for customer demands that cannot be fulfilled

General Information Detailed Description Activities (5) Ratings (2) Where-Used List (3) **Sharing** Administrative Information

**Sharing**

**Users**

Name	Write Access	Email	Phone
Example Account Planner (IBP)	<input checked="" type="checkbox"/>	account_planner_ibp@example.com	X
Example Inventory Planner (IBP)	<input checked="" type="checkbox"/>	inventory_planner_ibp@example.com	X
Example Supply Planner (IBP)	<input checked="" type="checkbox"/>	supply_planner_ibp@example.com	X
Ken	<input type="checkbox"/>		X

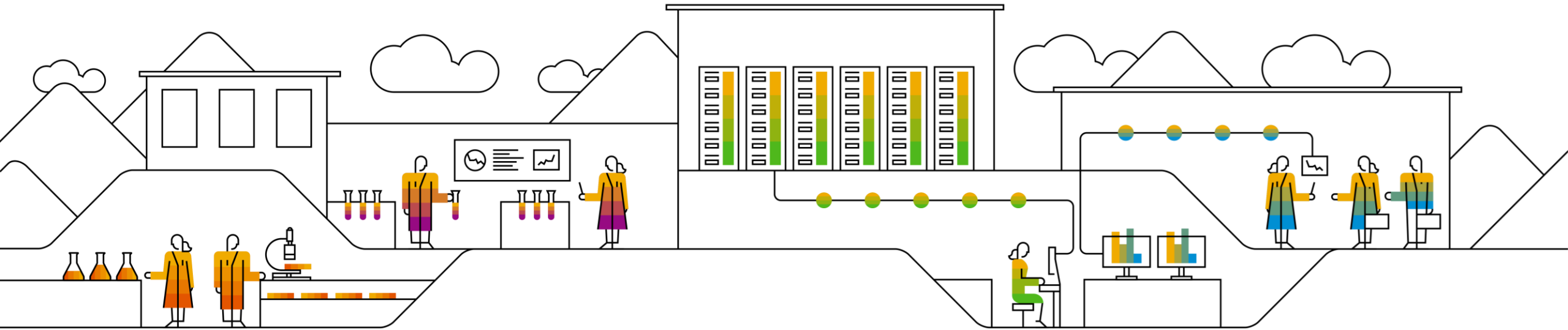
**User Groups**

Name	Write Access	Description	Users
MTL3_GROUP	<input type="checkbox"/>	MTL3 team	12 X

**Save** **Cancel**

# S&OP Enhancements

## Raghav Jandhyala



# Driver Based Planning

## Automatic Generation of Driver ID

- You can choose to enable Driver ID generation automatically when planners create or copy a driver
- ID is generated as Technical Key with YEAR\_TIMESTAMP format
- Automatically generated IDs are non-editable
- Enabled for Single Driver Creation View or Multi Driver creation in Summary View

Global Revenue Risks and Opps

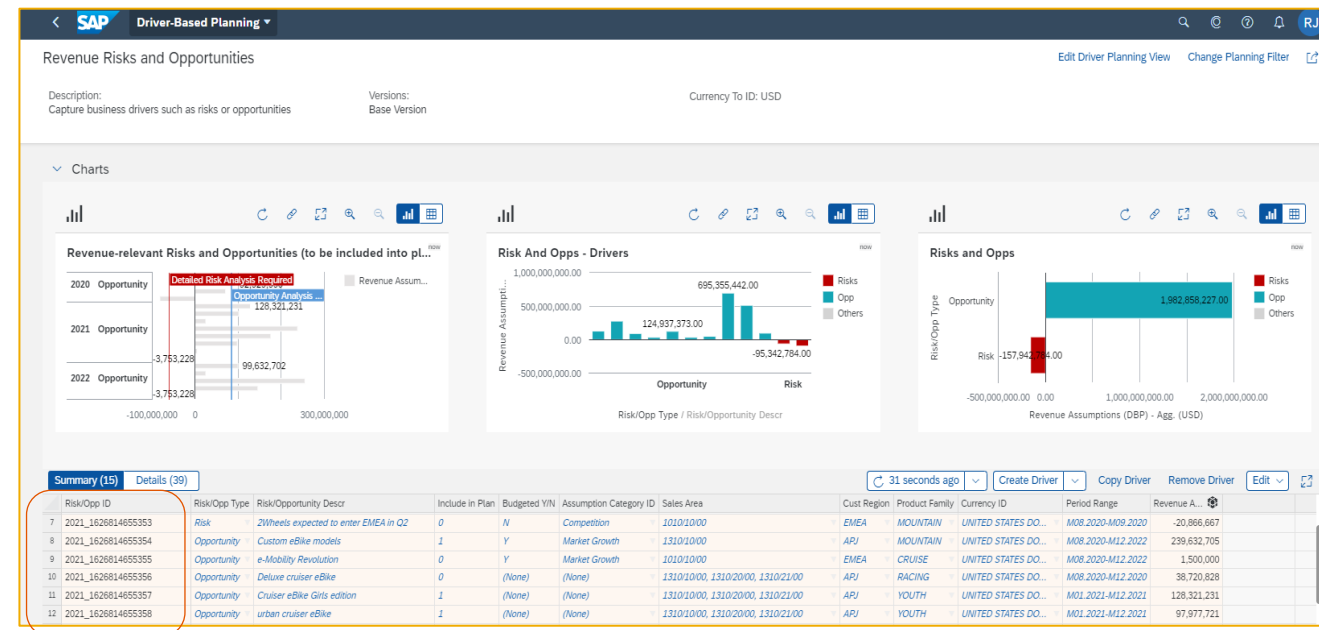
General Information Time Settings **Attributes** Planning Level Attributes (4) Key Figures (1) Charts Filter Sharing

Driver Type: \*  
CP1RISKOPP (Risks and Opportunities)

Driver Type Attributes (6)

ID	Description
ROPID *	Risk/Opp ID
ROPTYPEID *	Risk/Opp Type
ROPDESCR *	Risk/Opportunity Descr
INCLUDEINPLAN	Include in Plan
SUBSECTOR	Subsector

☐ Generate Automatically



# Driver Based Planning

## Improved cell color contrast of non-editable cells

Summary (15)

Details (39)

9 minutes ago

▼

Copy Driver

🔗

	Risk/Opp ID	Risk/Opp Type	Risk/Opportunity Descr	Include in Plan	Budgeted Y/N	Assumption Category ID	Sales Area	Cust Region	Product Family	Currency ID	Key Figures	M08.2020	M09.2020	M10.2020	M11.2
27	Superfast eBike	Opportunity	Superfast eBike initiative	1	(None)	(None)	1310/10...	APJ	RACING	UNITED STATES DOLLAR	Revenue Assumptions (DBP) - Agg.	1,971,056	1,971,057	1,971,056	
28	Superfast eBike	Opportunity	Superfast eBike initiative	1	(None)	(None)	1310/20...	APJ	RACING	UNITED STATES DOLLAR	Revenue Assumptions (DBP) - Agg.	1,971,057	1,971,057	1,971,057	
29	Superfast eBike	Opportunity	Superfast eBike initiative	1	(None)	(None)	1310/21...	APJ	RACING	UNITED STATES DOLLAR	Revenue Assumptions (DBP) - Agg.	1,971,056	1,971,056	1,971,056	

## New Restriction Type: Planning Object Operation Type

- Flexibly define whether users can create, delete or edit planning objects for drivers
- For example, define restrictions that users can create planning objects for drivers but not delete.
- Setting this new restriction type is optional



# Process Management

## APIs to externally trigger IBP Process Management

Using OData v4 service /IBP/API\_PROCMGMT\_MANAGE, you can now manage planning processes from SAP IBP with an external tool

Communication scenario **Planning - Process Management** (SAP\_COM\_0749) can be used for extracting Process Management data and managing processes

Example:

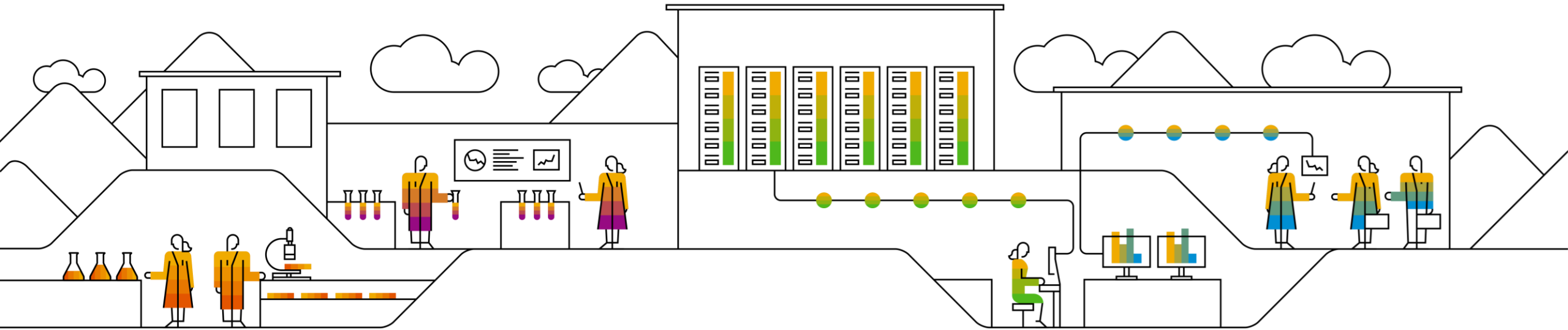
- Create processes for a Process Template
- Delete process
- Start / complete Process Steps

Note that with IBP 2108, you can only change status of step if it does not have tasks.

For more information about how to use the service, see SAP Note [3033483](#).

# Time Series Supply Planning

## Pramod Mane



# Agenda

Finite Heuristic Supports Fair-Share Distribution

Finite Heuristic Supports Maximum Aggregated Constraints

Configuration of Lead Time Unit in Days

Enhanced Time Level Options for Aggregated Constraints

Non Shelf Life Algorithms Available in Shelf Life Planning Areas

Product Decomposition for Time-Series Optimizer

Increased Time Accuracy for Unconstrained Heuristic

Miscellaneous

# Finite Heuristic Supports Fair-Share Distribution

- The time-series-based supply planning finite heuristic now supports fair-share distribution.
- When there isn't enough supply to completely meet all the demands, the finite heuristic leaves some demands unfulfilled. Now you can give each equally important demand its fair share. *(Already supported in Optimizer)*
- Fair-share distribution for the finite heuristic is only relevant for demands for customer and location products. Fair-share distribution for inventory target is **not** supported.
- The finite heuristic considers non-delivery cost rates and maximum delay key figures. Late delivery cost rates do not have any impact on its calculation.
- Depending on how many segments you define in your S&OP operator profile, each demand in a group is satisfied for the first segment then each demand in the group is satisfied for the second segment, and so on. For example, if you have a group of demands with the same non-delivery costs and you've defined four segments, demands in the group are satisfied for the first quarter, then for the second quarter, and so on up to the fourth quarter.

Fair-Share Distribution

ON ☒

Segments for Non-Delivery

10

# Finite Heuristic Supports Maximum Aggregated Constraints

- The time-series-based supply planning finite heuristic now supports maximum aggregated constraints, except for the MAXAGGINVENTORY key figure.
- Minimum aggregated constraints are **not** supported by the finite heuristic.
- Using maximum aggregated constraint key figures, you can now model constraints for the finite heuristic at an aggregate level for product, customer, location, and resource attributes.
- The finite heuristic ignores soft constraints.

# Configuration of Lead Time Unit in Days

- In normalized systems only, you can now change the lead time used in your system to days. Previously the only possible option was planning periods.
- To do this, the configuration expert must change the new LEADTIME\_UNIT global configuration parameter in the SOP group to DAYS. A lead time of days then applies throughout your SAP Integrated Business Planning for Supply Chain system. The default is blank, meaning planning periods.
- This parameter is available for all algorithms except time-series-based forecast consumption (not enabled for S&OP operator).
- If you specify days for lead times and offsets, and the planner chooses a run level (for any planning algorithm) of weeks or months, the S&OP operator rounds the daily lead times and offsets up or down to integer multiples of planning periods.
- For example, a lead time of four to seven days is rounded up to one week and one to three days are rounded down to a weekly lead time of zero. Similarly, 15 or more days are rounded up to one month.

# Enhanced Time Level Options for Aggregated Constraints

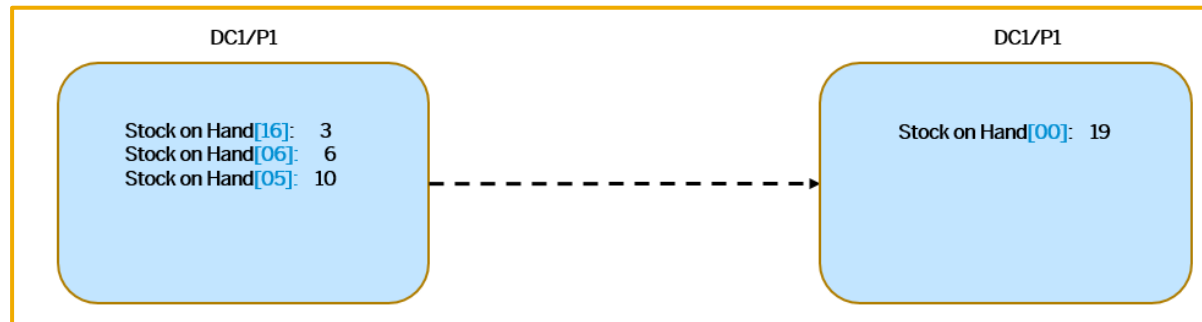
- In normalized systems only, you can now specify aggregated constraint key figures not only at the time level at which the optimizer is run, but at any time level that is an aggregate of the latter.
- The enhanced time level options are available as well for maximum aggregated constraints used in finite heuristic planning runs in normalized systems.
- The only prerequisite is that the planning run time level should roll up to the time level of aggregated constraints, and they should be in the same linear hierarchy
  - If the algorithm is run on a monthly level, the time root of the aggregated constraint can be at a monthly, quarterly, or yearly level.
  - If the algorithm is run on the level of technical weeks, the time root of the aggregated constraint can be at technical week level, calendar week level, monthly, quarterly, or yearly.
  - Since calendar weeks do not roll up into months, the time root of the aggregated constraint must be on calendar week level if the algorithm is run on calendar week level.

## Business Scenarios:

- Generate rough-cut distribution plans respecting minimum shipping volume contracts established with carriers. For e.g., Product Group/Ship-From Location/Ship-To Location and Quarterly period
- Specify minimum and maximum production capacity usage over a month/quarter for a product family
- Yearly product allocation on product family level while time-series optimizer is run at weekly time granularity.

# Non Shelf Life Algorithms Available in Shelf Life Planning Areas

- You can now run non-shelf life planning algorithms in planning areas configured for shelf life planning.
- Non-shelf life planning algorithms aren't designed to take shelf life information into account and so don't even consider the SHELFLIFEID attribute contained in the planning levels of input key figures in a shelf life planning area.
- To mitigate this, all key figures with the same key value combinations are aggregated into one key figure with an unlimited shelf life (that is, the SHELFLIFEID attribute is set to zero). The non-shelf life planning algorithms receive only the aggregated key figure with an unlimited shelf life.
- If the planning level of an output key figure contains the SHELFLIFEID attribute, this attribute is set to zero, indicating an unlimited shelf life. Output key figures without this attribute are populated in the normal way.



This screenshot shows the 'Primary Parameters' configuration for a TS Optimizer. Under the 'Heuristic Type' section, the 'Shelf Life Planning' option is selected with a radio button. The other two options, 'Infinite Without Shortages' and 'Finite Heuristic', are unselected.

This screenshot shows the configuration for a 'TS Optimizer in Shelf-Enabled Planning Area' with ID 122121. The 'Planning Area' is set to 'SAP4S'. The configuration includes fields for ID, Name, Description, and Planning Area, with the latter being a dropdown menu. The 'General Information' tab is active, showing details about the optimizer's description and creation.



# Product Decomposition for Time-Series Optimizer

- You can now use product decomposition to split large and complex optimization scenarios into smaller, less complex subproblems. This setting in the optimizer profile helps to reduce runtime and memory consumption.
- The following parameters are available for product decomposition:
  - **The Window Size of Subproblems (%)** defines the estimated complexity of a subproblem compared to the estimated complexity of the entire scenario. If you select a small window size, the optimizer plans less products per subproblem. If you select a larger window size, the optimizer combines more products in one subproblem.
  - **Preliminary Assignments at Subproblem Level** are made, commonly used objects like resources are distributed with a global view towards all subproblems. A preliminary assignment can be, for example, a capacity reservation. Without preliminary assignments at subproblem level, during the solution of one subproblem after the other, commonly used objects are used up in a first-come-first-serve manner.

The screenshot shows the 'Expert Settings' section of the optimizer profile. It is divided into three main areas: Numerical Focus, Numerical Pre-Optimization, and Product Decomposition. The 'Product Decomposition' section is highlighted with an orange border. It contains three settings: 'Enable Product Decomposition' (a toggle switch set to 'ON'), 'Window Size of Subproblems (%)' (a text input field with the value '20.00'), and 'Preliminary Assignments at Subproblem Level' (a dropdown menu set to 'Off').

Expert Settings

Numerical Focus  
Automatic ▾

Numerical Scaling  
Automatic ▾

Numerical Pre-Optimization  
Enable Pre-Optimization  
☐ OFF

Overall Runtime Limit (%)  
10

Cost Threshold

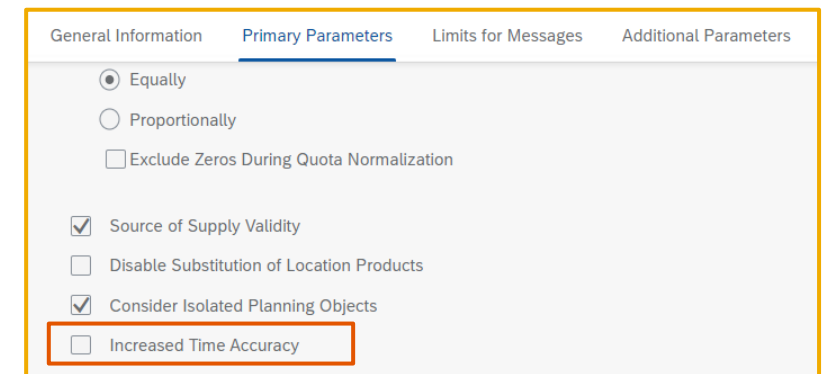
Product Decomposition  
Enable Product Decomposition  
☒ ON

Window Size of Subproblems (%)  
20.00

Preliminary Assignments at Subproblem Level  
Off ▾

# Increased Time Accuracy for Unconstrained Heuristic

- If the storage level is technical weeks, and you want to run planning algorithms on calendar weeks, but demand is entered in months, and the display level is monthly, you can check the new *Increased Time Accuracy* parameter. Only available with the time-series-based supply planning heuristic (**type Infinite without Shortages**).
- This is a more accurate way of aggregating or disaggregating key figure values when there's a discrepancy between the time granularity at which the planning algorithm is run and the storage level of the relevant key figures, particularly when dealing with split weeks (calendar weeks that overlap two successive months).
- When you check this new parameter, the heuristic converts all relevant input data into days before it runs, even though the storage level of the relevant key figures is technical week. After this pre-processing step, the heuristic runs on a daily granularity and the resulting supply plan (all the output key figures) also relates to that time level.
- After the run, values in all output key figures are aggregated from days to the display level, which is calendar weeks/months.
- This feature may increase runtime and memory consumption, as the heuristic is carrying out more calculations (converting to days and back to calendar weeks/months).



The screenshot shows the configuration interface for a planning heuristic, specifically the 'Primary Parameters' tab. The interface includes a header with four tabs: 'General Information', 'Primary Parameters' (selected), 'Limits for Messages', and 'Additional Parameters'. Under the 'Primary Parameters' tab, there are several options: 'Equally' (selected with a radio button), 'Proportionally' (unselected with a radio button), 'Exclude Zeros During Quota Normalization' (unselected with a checkbox), 'Source of Supply Validity' (checked with a checkbox), 'Disable Substitution of Location Products' (unselected with a checkbox), 'Consider Isolated Planning Objects' (checked with a checkbox), and 'Increased Time Accuracy' (unselected with a checkbox). The 'Increased Time Accuracy' checkbox is highlighted with a red rectangular border.

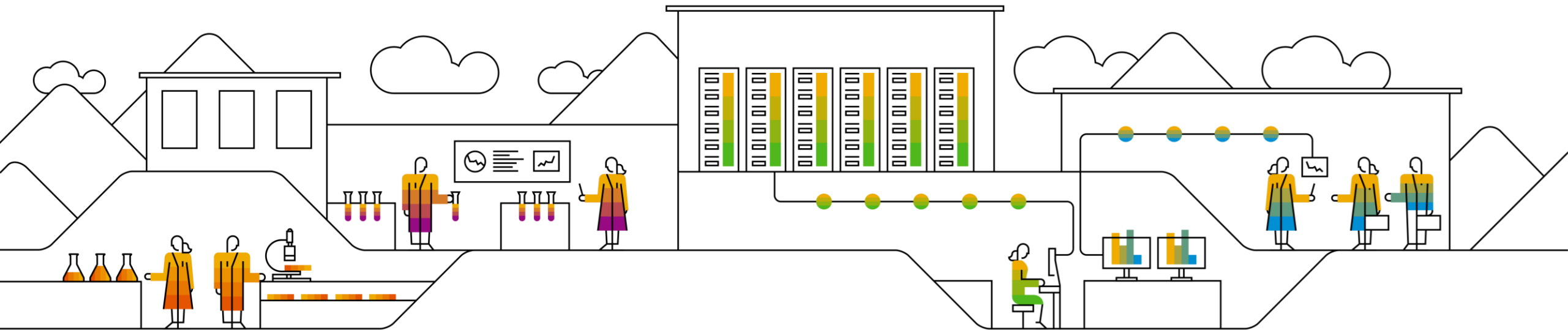
# Miscellaneous

- **New Validation Check:** Lead Times Must Not Be Negative in Optimization
- **New Validation Check:** Key Figures Must Have Same Time Period Level
  - All supply planning key figures (except aggregated constraint key figures).
  - All forecast consumption key figures used in forecast consumption profiles enabled for the S&OP operator.
  - If they don't, in 2108 you'll see a warning message and the supply planning run finishes with warnings. These warnings are also reported in the cloud.
  - In 2111, this check results in an error message and the supply planning run fails.
- **Isolated Planning Objects:**
  - Include isolated planning objects such as customer products, location products, and production/transportation/handling/storage resources.
  - Isolated planning objects, such as customer or location products, typically arise after their related sources of supply have been deleted.
  - The default is not to consider them (unchecked).
  - Only available in normalized systems

☐ Consider Isolated Planning Objects

# **SAP Integrated Business planning for response & supply – Order-based planning**

**Claus Bosch, Ralf Heimburger, Bülent Akin**



# Agenda

Transportation Resource: Capacity Consumption at Start

Location Product Substitution for Finite Heuristic

Goods receipt processing time, shipping and receiving calendars on the transportation lane

Forecast Fulfillment in Confirmation and Deployment Runs

Miscellaneous

Synchronized Planning - Production Planning Integration

Interactive Planning

# Order-Based Planning: Capacity Consumption At Start for Transportation Resources

## Define Capacity Limits For Creating A Feasible Distribution Plan

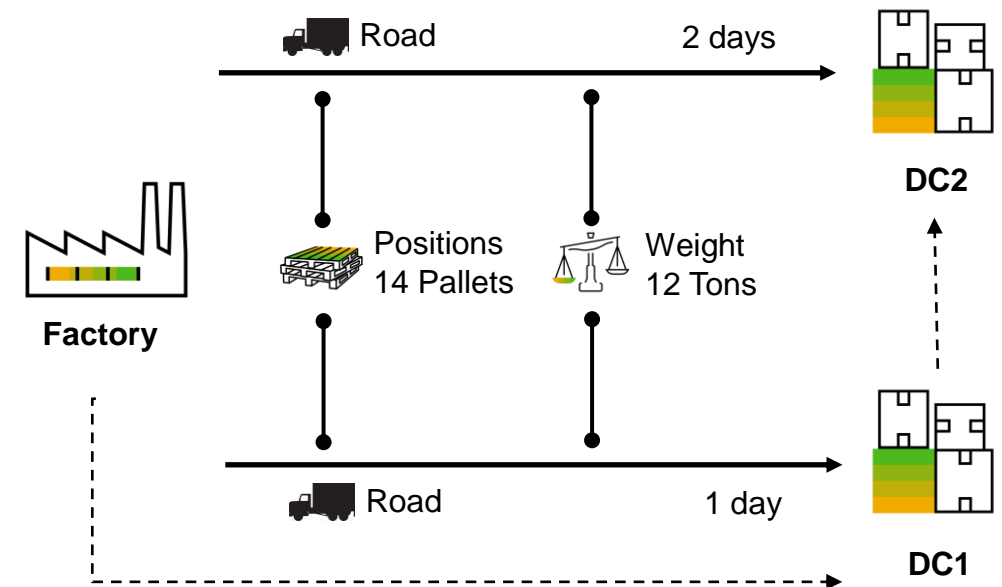
Transportation Resource has been introduced as a new constraint in Operational Supply Planning in IBP 2102. It allows defining capacity limits for internal stock transfers and external procurement with capacity consumption at the end of the transport activity. With 2108, it is possible to set capacity consumption at start for internal stock transfers.

### Value Proposition

- Restrict the total transportation capacity of one mode of transport in a route with multiple legs with one source and multiple target locations with different lead times.

### Capabilities

- Determine the consumption policy for transportation resources
- Capacity consumption is calculated at the start of the transportation activity
- Visibility of the consumption date in Excel Add-in and Fiori Apps
- Gating factors of type “Resource” shows the gating factor date based on the consumption policy

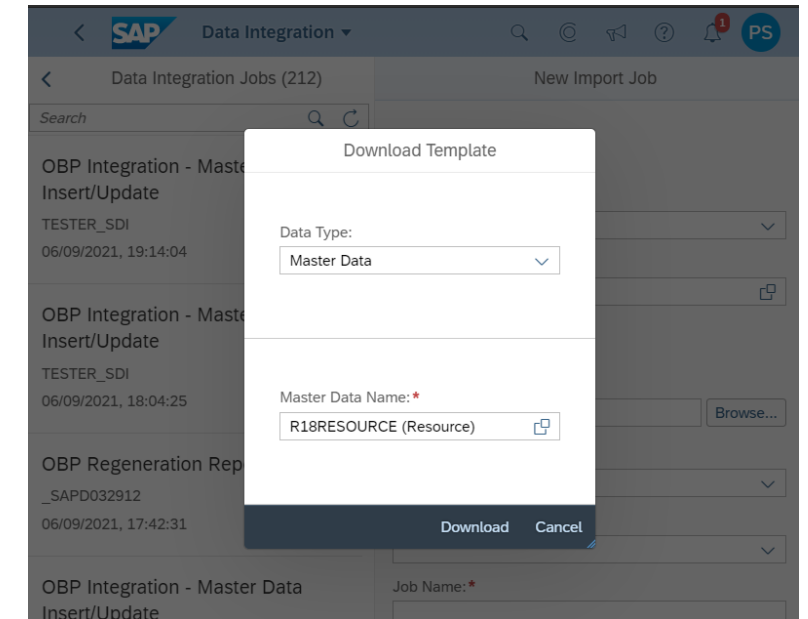


# Consumption Policy

- A new Consumption Policy attribute can be maintained on the resource with values:
  - E – consumption at end
  - S – consumption at start
- As resources are uploaded via CPI-DS or the Fiori app Data Integration, the attribute can only be set with these tools
- Capacity consumption at start is not allowed for external procurement
  - An error is thrown when a resource is being assigned to a lane marked for external procurement
  - An error is thrown when a resource is being updated to start policy in case it's already assigned to external procurement lanes
- All resources uploaded before release 2108 have capacity consumption at end
- The attribute cannot be changed for production resources, they always have consumption at end, which means the consumption always happens at the end of the last production activity
- Capacity consumption policy has been included in the SAP7 sample planning area to the S7RESOURCE sample master data type and to planning levels PERRES and PERPRODLANERES

	A	B	C	D	E	F	G	H	I	J	K	L
1	RESID	CAPACITYCATEGORY	CAPACITYUNIT	CAPACONSUMPTIONPOLICY	DEFCAPA	HRESOURCECOUNTER	HRESVALID	RESDESCRIPTION	RESOURCEDEL	RESOURCETYPE	TIMEZONE	WORKCENTER
2	PS30_TR_DC72_L7_KG		KG	S	500			DC72_LocalDCs_Weight			3 GMTUK	

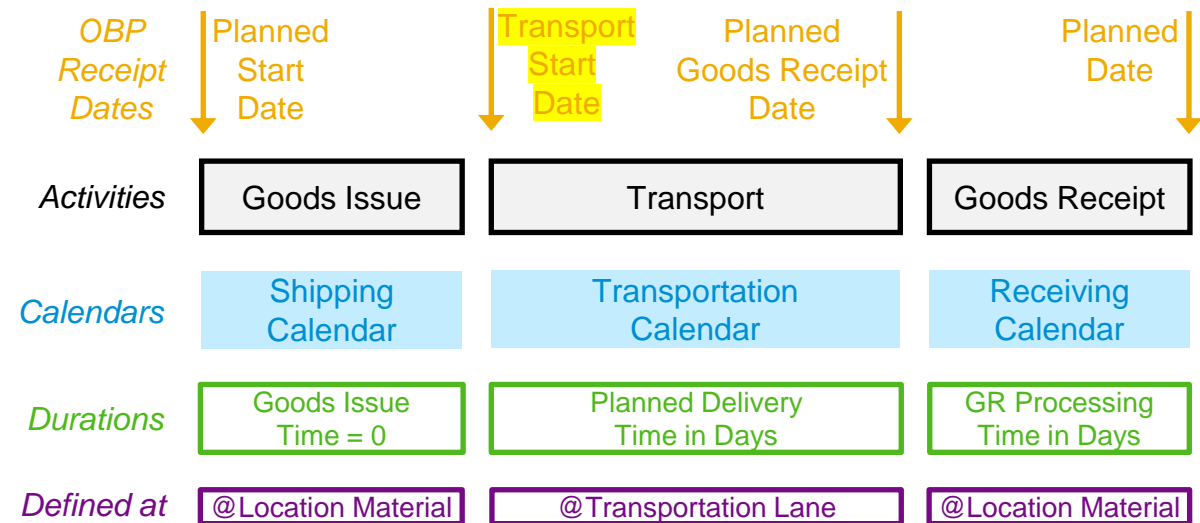
## Data Integration Jobs: Download Template



## Resource CSV File Template

# Capacity Consumption Of Distribution Orders During Inbound Integration

- Capacity consumption with start policy happens at the start of the transportation activity. The planning engine schedules the stock transfer requisitions created in IBP accordingly.
- Additionally, the transport start date must be determined for orders that are integrated to IBP. This is done by taking the planned goods receipt date of the order and applying the delivery time backwards. The transportation calendar is then checked. If the calculated date doesn't fit, the next available date is taken backwards. In case the delivery date falls before the planned start date, the delivery time is shortened.
  - The transport start date is determined for fixed and unfixed orders
  - Fixed orders include STOs, fixed STRs, POs, fixed PRs (consumption at start is not supported for external procurement)
  - The dates that are coming from ERP are not changed
- The transport start date is not displayed in Fiori apps and in Excel yet, but planned for a future release. In case there are no shipping and transportation calendars or if they are the same, the transport start date matches the planned start date.



**Stock Transfer Activities**



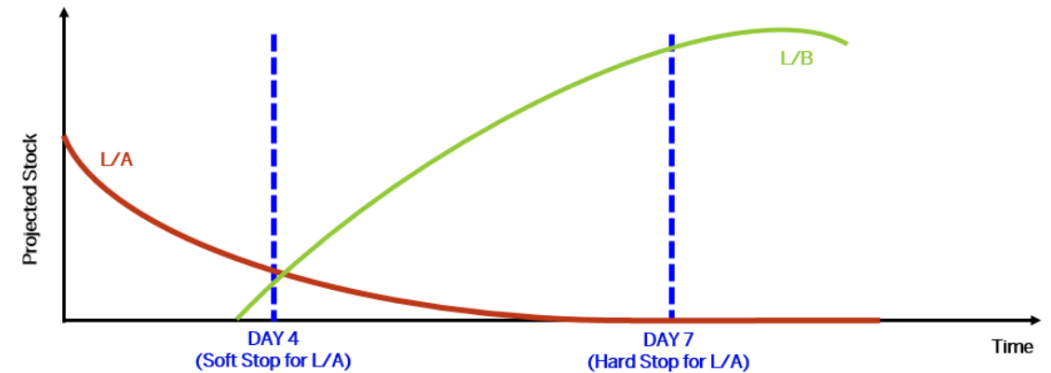
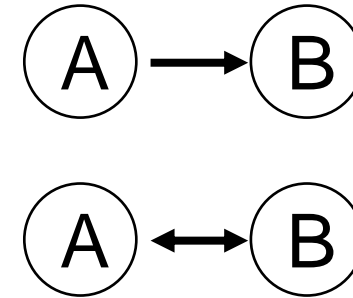
# Location Product Substitution for algorithm type Finite heuristic

## Value Proposition

- Substitution master data available to support discontinuation and substitution scenarios
- Reduced material stocks and scrap through consideration of stock/supply use up in discontinuation
- Optimized product availability by substitution of demands for discontinued products

## Capabilities

- Main substitution scenarios supported (e.g. Discontinuation, Substitution,...)
- **New: Finite Heuristic algorithm supported (All OBP planning runs)**
- Substitution key figures and planning level available to provide visibility in Excel planning view
- Substitution order introduced and visible in relevant Fiori transactional apps like View Projected Stock
- Substitution Priority Limits available to flexibly turn on/off substitution scenarios
- Demand Substitution Type available to enable substitution on independent and component demand



# Location Product Substitution

Please consider:

IBP2102: the algorithm type “**Optimizer**” supports location product substitution:

- Order-based planning: Constrained Forecast Run
- Order-based planning: Deployment Run

IBP2108: the algorithm type “**Finite Heuristic**” supports location product substitution:

- Order-based planning: Confirmation Run
- Order-based planning: Constrained Forecast Run
- Order-based planning: Deployment Run

# Location Product Substitution – Use Cases and algorithm support

You can model scenarios to fit the following use cases:

Optimizer	Finite Heuristic
Discontinuation without use-up  Material A in location L (the leading location material) is substituted by material B in location L (the substitute location material), but material A in location L is not used up	Discontinuation without use-up  Material A in location L (the leading location material) is substituted by material B in location L (the substitute location material), but material A in location L is not used up
Discontinuation with use-up  Material A in location L is substituted by material B in location L and material A in location L can be used up	Discontinuation with use-up  Material A in location L is substituted by material B in location L and material A in location L can be used up
Mutual substitution  Material A in location L can be substituted by material B in location L and material B in location L can be used up by material A in location L	Mutual substitution  Material A in location L can be substituted by material B in location L and material B in location L can be used up by material A in location L
Promotion  Material A in location L is substituted by material B in location L for a certain period of time, then material A in location L is used again	

# Master data type S7PRODLOCSUBST

Consider: while most external master data is integrated in IBP using the SAP HANA SDI (Inbound) application job, the master data for location product substitution needs to be integrated via file upload from the *Data Integration Jobs* app or via Cloud Integration for Data Services (CI-DS).

Location Product Substitution			
S7PRODLOCSUBST			
Description	Type	Master Data Types	Planning Areas
Location Product Substitution	External	0	1
SMD_LMSUBST			

Assigned Attributes			
ID	Name	Key	Referenced Column
LOCID	Location ID	<input checked="" type="checkbox"/>	LOCATION_NUMBER
LOCTYPE	Location Type	<input checked="" type="checkbox"/>	LOCATION_TYPE_CODE
PRDID	Product ID	<input checked="" type="checkbox"/>	MATERIAL_NUMBER
SPRDID	Substitute Product ID	<input checked="" type="checkbox"/>	SUBSTITUTION_MATERIAL_NUMBER
SUBSTVERSION	Substitution Version	<input checked="" type="checkbox"/>	SUBSTITUTION_VERSION
BLOCKEDFORPLANNING	Blocked for Planning	<input type="checkbox"/>	BLOCKED_FOR_PLANNING
HLOCPRODSUBSTCOUNTER	Helper Attribute for Loc Prod Su	<input type="checkbox"/>	LMSUBST_COUNTER
HLOCPRODSUBSTVALID	Helper for Planning Object Del	<input type="checkbox"/>	CVC_IS_VALID
PRIORITY	Priority	<input type="checkbox"/>	PRIORITY
SUBSTDEL	Loc Prod Subst Marked for Del	<input type="checkbox"/>	MARKED_FOR_DELETION
SUBSTINVALID	Invalid for Planning	<input type="checkbox"/>	INVALID_FOR_PLANNING
SUBSTREASON	Substitution Reason	<input type="checkbox"/>	REASON_CODE
SUBSTVALIDFR	Valid From Date	<input type="checkbox"/>	VALID_FROM_DATE
SUBSTVALIDTO	Valid To Date	<input type="checkbox"/>	VALID_TO_DATE

# App Projected Stock

In the **Stock Projection** table, you can recognize any product substitution that took place by looking at the values in the **Type of Receipt or Requirement** column. If a location material was substituted, the column shows **Substitution Order** or **Substitution Order Requirement**. More details are then provided in the **Leading or Substitute Material Number**, **Leading or Substitute Material Description**, and **Substitution Version** columns.

Substitution orders are also visible:

- App *Analyze Supply Usage*
- Order Network

Substitution orders can be extracted via

- Application job template – Data Integration:  
Extraction of Order-Based Planning Results

Version: SAP72102C / Base Version

CB\_SUBST\* ▾

Material: CB77\_PHONE\_C (Phone C), Location: L721 (L721 DC Edinburgh)

Stock Projection Information

Items (17) **Element View** Daily View Create Change Start Planning Run Period Settings

Requested or Planned Dat...	Receipt or Requirement ID	Type of Receipt or Requirement	Source or Destination Locat...	Receipt or Requirement ...	Projected Stock	Leading or Substitute Materia...	Substitution Version
	Stock	Stock		150.000 EA	150.000 EA		
12/12/2020, 00:00:00 GMT...	973 / 10 / 1	Sales Order	Customer 1	-100.000 EA	150.000 EA		
01/01/2021, 23:59:59 GMT...	S108708245 / 10	Substitution Order Requirement	L721 DC Edinburgh	-20.000 EA	130.000 EA	CB77_PHONE_D	SUBST_MUTSUB
01/02/2021, 23:59:59 GMT...	S108708243 / 10	Substitution Order Requirement	L721 DC Edinburgh	-20.000 EA	110.000 EA	CB77_PHONE_D	SUBST_MUTSUB
01/05/2021, 23:59:59 GMT...	S108688796 / 10	Substitution Order		10.000 EA	120.000 EA	CB77_PHONE_D	SS_MUTSUB
01/06/2021, 23:59:59 GMT...	S108688795 / 10	Substitution Order		10.000 EA	130.000 EA	CB77_PHONE_D	SS_MUTSUB
01/07/2021, 23:59:59 GMT...	S108688794 / 10	Substitution Order		10.000 EA	140.000 EA	CB77_PHONE_D	SS_MUTSUB
01/08/2021, 23:59:59 GMT...	S108682549 / 10	Substitution Order		10.000 EA	150.000 EA	CB77_PHONE_D	HS_MUTSUB
01/09/2021, 23:59:59 GMT...	S108682548 / 10	Substitution Order		10.000 EA	160.000 EA	CB77_PHONE_D	HS_MUTSUB
01/10/2021, 23:59:59 GMT...	S108682547 / 10	Substitution Order		10.000 EA	170.000 EA	CB77_PHONE_D	HS_MUTSUB

# SAP IBP, Add-in for Microsoft Excel

The following key figures show results if product substitution has taken place during planning:

- **Substitution Demand (SUBSTDEMAND)**
- **Substitution Demand for Substitution Scenario (SUBSTDEMANDSUBST)**
- **Substitution Receipt (SUBSTRECEIPT)**
- **Substitution Receipt Used by Demand (SUBSTRECEIPTASU)**
- **Substitution Receipt for Substitution Scenario (SUBSTRECEIPTSUBST)**

SAP

Integrated Business Planning

Filter:

CB77\_PHONE\_C,PHONE\_D in L721 (2 criteria):

Material Number = CB77\_PHONE\_C,CB77\_PHONE\_D

Chart:

Series:

Filter:

Location ID	Material Number	Key Figure	12/17/2020	12/18/2020	12/19/2020	12/20/2020	12/21/2020	12/22/2020	12/23/2020	12/24/2020	12/25/2020	12/26/2020	12/27/2020	12/28/2020	12/29/2020	12/30/2020	12/31/2020
L721	CB77_PHONE_C	Forecast Constrained	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Forecast Unconstrained	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Sales Order (Requested)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Sales Order Confirmed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Substitution Demand	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0
		Total Demand	10	10	20	10	10	10	10	10	10	10	10	10	10	10	10
		Distribution Receipt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Substitution Receipt	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10
		Total Receipt	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10
		Stock Projected	80	70	50	40	30	20	10	0	0	0	0	0	0	0	0
	CB77_PHONE_D	Substitution Cost Rate		10	10	10	10	10	10	10							
		Forecast Constrained			100	10	20										
		Forecast Unconstrained			100	10	20										
		Sales Order (Requested)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Sales Order Confirmed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Substitution Demand	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10
		Total Demand	0	0	100	10	20	0	0	0	10	10	10	10	10	10	10
		Distribution Receipt	0	0	40	10	20	0	0	0	10	10	10	10	10	10	10
		Substitution Receipt	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0
		Total Receipt	0	0	50	10	20	0	0	0	10	10	10	10	10	10	10
		Stock Projected	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0
		Substitution Cost Rate															

SAP

Integrated Business Planning

Filter:

CB77\_PHONE\_C,PHONE\_D in L721 (2 criteria):

Material Number = CB77\_PHONE\_C;CB77\_PHONE\_D

Chart:

Series:

Filter:

Location ID	Material Number	Substitute Product ID	Substitution Version	Key Figure	12/17/2020	12/18/2020	12/19/2020	12/20/2020	12/21/2020	12/22/2020	12/23/2020	12/24/2020	12/25/2020	12/26/2020	12/27/2020	12/28/2020		
L721	CB77_PHONE_C	CB77_PHONE_D	HS_MUTSUB	Substitution Receipt for Substitution Scenario	0	0	0	0	0	0	0	0	0	10	10	10	10	
				Substitution Demand for Substitution Scenario	0	0	0	0	0	0	0	0	0	10	10	10	10	
				Substitution Cost Rate														
				Substitution Receipt for Substitution Scenario	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CB77_PHONE_D	CB77_PHONE_C	SUBST_MUTSUB	Substitution Demand for Substitution Scenario	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Substitution Cost Rate		10	10	10	10	10	10	10						
				Substitution Receipt for Substitution Scenario	0	0	10	0	0	0	0	0	0	0	0	0	0	0
				Substitution Demand for Substitution Scenario	0	0	10	0	0	0	0	0	0	0	0	0	0	0

# Discontinuation Without Use-Up

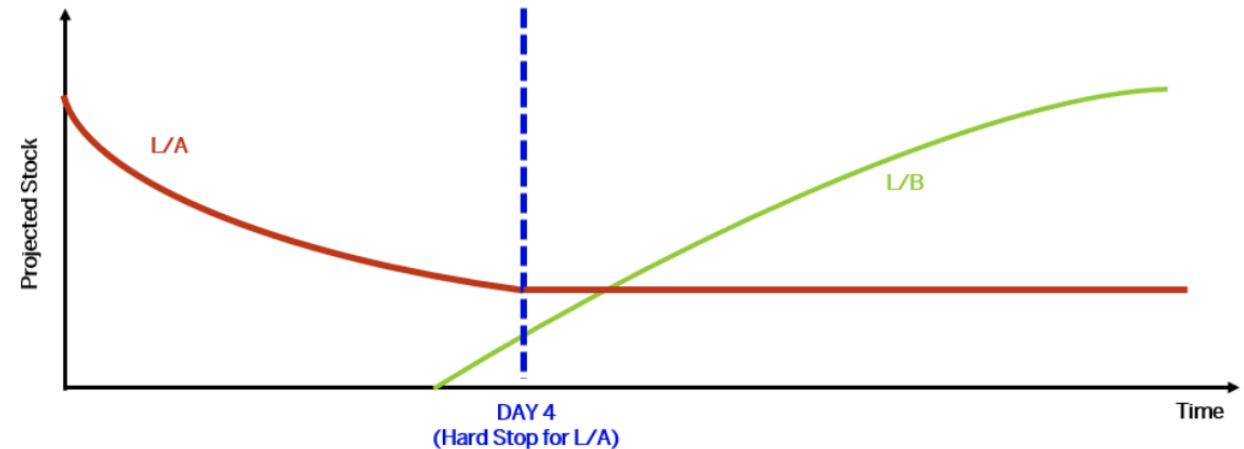
## ❖ Example

Let's say you want to discontinue material A in location L1 (L1/A) and only use material B in location 1 (L1/B) in the future. You don't want to use up what is left of material A. To model such a substitution scenario, you have to create the following substitution procedure and import it:

LOCID	PRDID	SPRDID	SUBSTVERSION	SUBSTREASON	SUBSTVALIDFR	SUBSTVALIDTO
L1	A	B	HARD_NOUSEUP	HARDSTOP	20210101	

## HARDSTOP

- The leading material is no longer valid and must no longer be shipped.
- Demands for the leading material are satisfied by the substitute material from the valid from date.
- Remaining stocks of the leading material are not used to satisfy demands for it.
- The leading material must no longer be produced, procured, or transported.
- Safety stock levels for the leading material will be ignored.
- If substitute material has insufficient stock or no new supply can be created, then demands of the leading material in the hardstop phase stay unfulfilled.



# Discontinuation With Use-Up

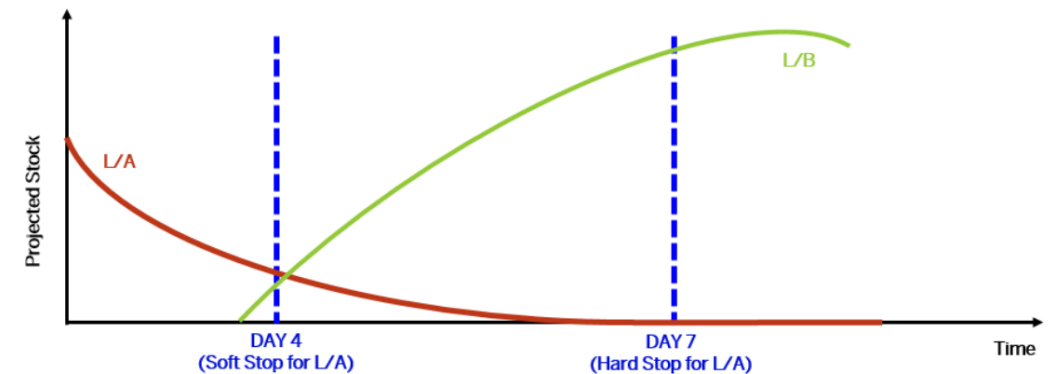
## ❖ Example

Let's say you want to discontinue material A in location L1 (L1/A) and only use material B in location 1 (L1/B) in the future. However, for a certain period, you're fine with both materials being used because you want to use up what is left of material A. To model such a substitution scenario, you have to create the following substitution procedures and import them:

LOCID	PRDID	SPRDID	SUBSTVERSION	SUBSTREASON	SUBSTVALIDFR	SUBSTVALIDTO
L1	A	B	SOFT_USEUP	SOFTSTOP	20210101	20210331
L1	A	B	HARD_USEUP	HARDSTOP	20210401	

## SOFTSTOP

- The leading material will no longer be valid at the end of the soft stop phase.
- Demands for the leading material are satisfied by the substitute material from a certain date.
- Remaining stocks of the leading material should until the valid to date be used to satisfy demands for it.
- The leading material must no longer be produced, procured, or transported.
- Safety stock levels for the leading material will be ignored.
- If the substitute material is constrained in the softstop phase late, fulfillment via substitute material in the hardstop phase is allowed. If substitute material is constrained all over softstop and hardstop phase, demands of leading material cannot be fulfilled by new supply for leading material created before softstop phase





# Mutual Substitution

## MUTUAL SUBSTITUTION

- Demands for the leading material can be satisfied by the substitute material – as long as the substitute material comes from stock.
- Demands for the substitute material can be satisfied by the leading material.
- Production, transportation, and purchasing of the leading material are possible.

### Finite Heuristic:

#### In the **Substitution phase:**

- L1/A demands are first satisfied by L1/A stock
- If no L1/A stock/fixed supply is available then substitution receipts of L1/B are created as long as L1/B comes out of stock.
- Then new supply for L1/A will be created
- If no supply creation for L1/A feasible, then new supply for L1/B will be created

### ❖ Example

Let's say you have stock of L1/A, the location material you want to discontinue, and of L1/B. In the use case of mutual substitution, material A in location L can be substituted by material B in location L, and material B in location L can be used up by material A in location L – under certain conditions. To model such a substitution scenario, you have to create the following substitution procedures and import them:

LOCID	PRDID	SPRID	SUBSTVERSION	SUBSTREASON	SUBSTVALIDFR	SUBSTVALIDTO
L1	A	B	SOFT_MUTUAL	SOFTSTOP	20210101	20210228
L1	B	A	SUBST_MUTUAL	SUBSTITUTION	20210101	20210228
L1	A	B	HARD_MUTUAL	HARDSTOP	20210301	

# Order-based Planning: Goods receipt processing time, shipping and receiving calendars on the transportation lane

## Define mode of transport dependent goods receipt processing time, shipping and receiving calendars

It is now possible to define different goods receipt processing time, shipping and receiving calendars dependent on the mode of transport.

### Value Proposition

- Supporting use cases where different mode of transports can transfer or receive goods on different days and have different unloading and storing times.

### Capabilities

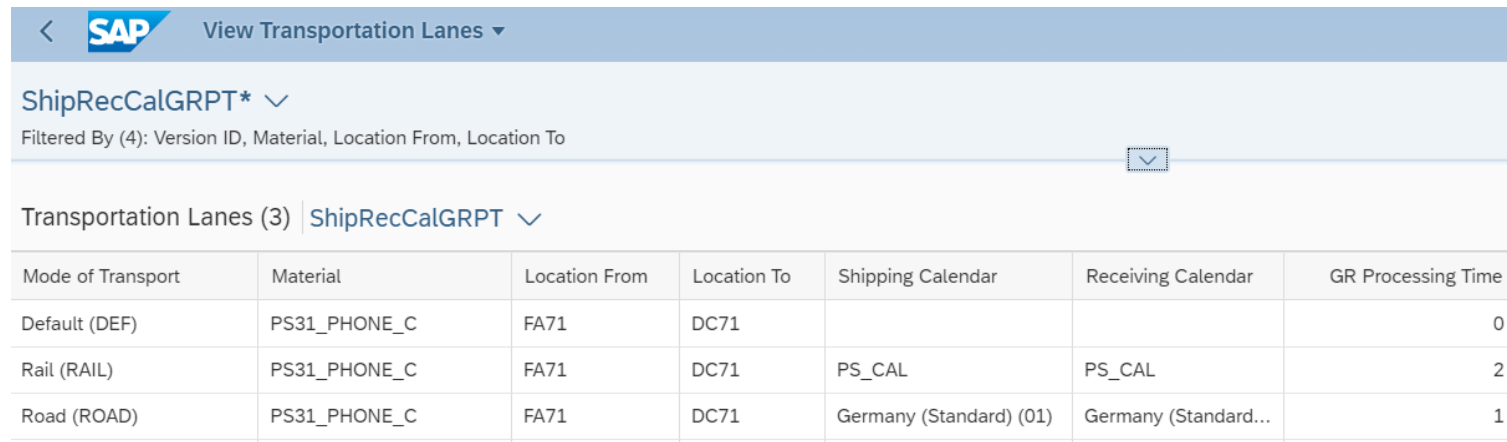
- Define the attributes on the transportation lane
- Scheduling and planning results according to the defined data

Defined at	@Transportation Lane	@Transportation Lane	@Transportation Lane
	@Location Material		@Location Material
Activities	Goods Issue	Transport	Goods Receipt
Calendars	Shipping Calendar	Transportation Calendar	Receiving Calendar
Durations	GI Processing Time in Days	Planned Delivery Time in Days	GR Processing Time in Days

### Stock Transfer Activities

# Define and review master data

- New fields are available in transaction /ibp/ecc\_tlane: Shipping Calendar, Receiving Calendar, Goods Receipt Processing Time. Shipping calendars cannot be filled for lanes with external procurement
- Mass maintenance (transaction MASSD) is enabled
- The fields can be overwritten via BADI /IBP/ECC\_SAVE\_TLANE
- The attributes are available in data source SMD\_MALAMOT in the master data type configuration, but the sample content is not extended
- The fields can be displayed in the View Transportation Lanes Fiori app
- When no calendars are maintained, all days are considered as working days. By default, the goods receipt processing time is 0.



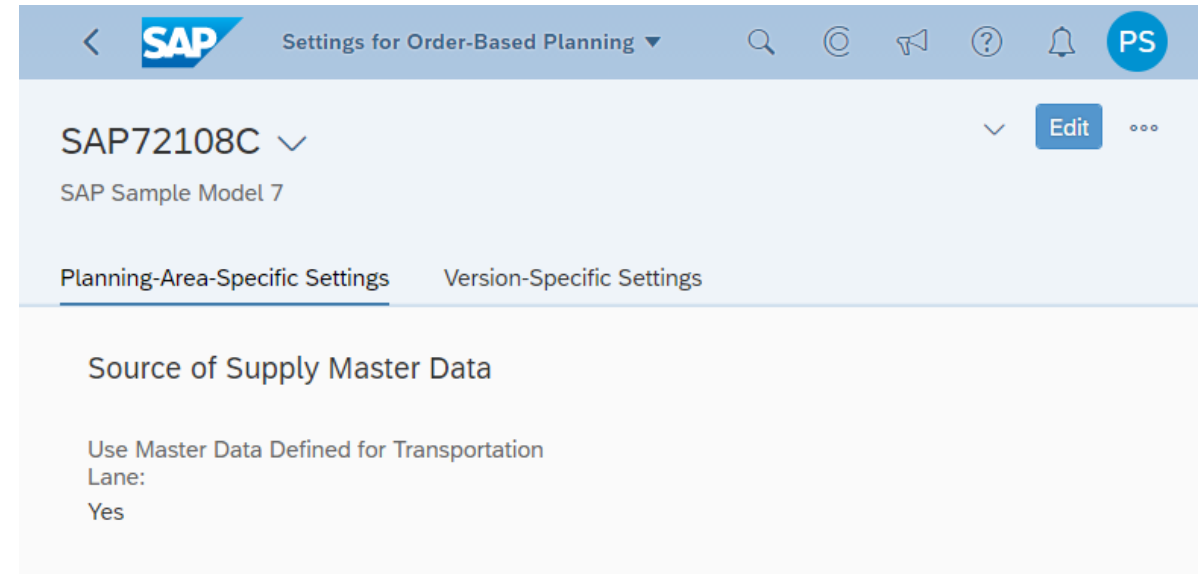
The screenshot shows the 'View Transportation Lanes' Fiori app interface. At the top, there is a header bar with the SAP logo and the title 'View Transportation Lanes'. Below the header, there is a filter section with 'ShipRecCalGRPT\*' and a dropdown arrow. Below the filter, there is a table with the title 'Transportation Lanes (3) | ShipRecCalGRPT'. The table has seven columns: 'Mode of Transport', 'Material', 'Location From', 'Location To', 'Shipping Calendar', 'Receiving Calendar', and 'GR Processing Time'. The table contains three rows of data.

Mode of Transport	Material	Location From	Location To	Shipping Calendar	Receiving Calendar	GR Processing Time
Default (DEF)	PS31_PHONE_C	FA71	DC71			0
Rail (RAIL)	PS31_PHONE_C	FA71	DC71	PS_CAL	PS_CAL	2
Road (ROAD)	PS31_PHONE_C	FA71	DC71	Germany (Standard) (01)	Germany (Standard...	1

**View Transportation Lanes Fiori app**

# Order-based Planning Settings

- A new setting is available in the Order-based Settings Fiori app, Source of Supply Master Data: Use Master Data Defined for Transportation
- When it is set to Yes, the Shipping Calendar, Receiving Calendar and Goods Receipt Processing Time are considered from the transportation lane for distribution and data from the location material will be ignored
- When set to No, the attributes are considered from the location material
- The default of the setting is No to ensure compatibility with existing planning areas
- Regardless of the OBP setting, the attributes can be maintained on both levels on the ERP side and invalid attributes will be rejected by the integration on both levels



**Settings for Order-based Planning Fiori app**

# Forecast Fulfillment in Confirmation Runs and Deployment Runs

## Value Proposition

- Offer fulfillment key figures for both independent demand types in confirmation and deployment run
- Use fulfillment key figures (e.g. sales order/forecast in time/late) for a custom key figure calculation for Total Demand used in key figure “Stock Projected” to consider dropped demand

## Capabilities

- Order-Based Planning - Confirmation Run and the Order-Based Planning - Deployment Run can now show how much of your constrained forecast can be fulfilled in time, late, or stays unfulfilled.
- View the forecast fulfillment key figures also within a simulation or scenario.
- Use the settings in the planning run profile to update, keep or delete forecast fulfillment key figure information.

### Forecast Fulfillment Key Figures

Update Forecast Fulfillment Key Figures:

Yes	▼
No	
Yes	
No and delete existing	

# Forecast Fulfillment in Confirmation Runs and Deployment Runs

The **Order-Based Planning: Confirmation Run** and the **Order-Based Planning: Deployment Run** can now show you how much of your constrained forecast can be fulfilled in time, late, or stays unfulfilled.

You can decide in the planning run profile whether the forecast fulfillment key figures should be updated during each of these runs.

You can also see the forecast fulfillment key figures when you perform these runs in a simulation or scenario.

Consider: Only external forecast fulfillment key figures are updated in scenario/simulation

The screenshot displays the SAP Planning Run Profiles configuration for profile **CB\_PRP\_DEMFULKF\_1**. The left sidebar lists 21 profiles, with **CB\_PRP\_DEMFULKF\_1** (Fctst Full Key Figures 1) selected. The main area shows the profile details, including a description, creation/modification dates, and a tabbed interface for various cost and parameter settings. The **General Parameters** tab is active, showing the **Forecast Fulfillment Key Figures** section. A dropdown menu is open for the **Update Forecast Fulfillment Key Figures** setting, with options: **Yes** (selected), **No**, **Yes**, and **No and delete existing**.

Profile Name	Description
CB_OPT_PROFILE1	CB_OPT_PROFILE1
CB_OPT_PROFILE2	CB_OPT_PROFILE2
CB_PROF2	CB_PROF2
<b>CB_PRP_DEMFULKF_1</b>	<b>Fctst Full Key Figures 1</b>
CB_PRP_SUBST_1	Subst Test 1
CB_PRP_SUBST_2	CB_PRP_SUBST_2
CB_PRP_SUBST_COSTR	CB_PRP_SUBST_COSTR

**CB\_PRP\_DEMFULKF\_1**  
Description: Fctst Full Key Figures 1  
Created By: [Redacted] | Changed On: 06/07/2021  
Created On: 06/07/2021

**Forecast Fulfillment Key Figures**  
Update Forecast Fulfillment Key Figures:  
Yes (selected)  
No  
Yes  
No and delete existing

# Miscellaneous

Flexible subnetwork definition by planning filters

Consideration of Period Types in Optimizer Planning Algorithm

Maximum Lateness for pre-allocation segment

# Synchronized Planning - Production Planning Integration

## Using the combined the planning capabilities of SAP IBP and embedded PPDS on SAP S/4 HANA 2021

### SAP IBP Order-based Planning

Operational Supply Planning for procurement, production and distribution across the supply chain



### SAP S/4HANA embedded PPDS

Detailed Planning and Scheduling for refined and feasible production plans in the plant

**Production Planning Integration** in Synchronized Planning provides approved scenarios for integration between Order-based Planning (OBP) and PPDS on SAP S/4HANA.

With IBP release 2108 *two new Production Planning Integration Modes (PPIM)* are introduced for integration with SAP S/4 HANA 2021. With the new PPIMs more options for multi-level planning in PPDS are available:

#### Displayed in Detailed Planning and Scheduling:

- By integrating location materials from OBP to PPDS in *display* mode consider their dependent component demand or stock transfer requirements in plant-centric upstream PPDS planning without changing or re-scheduling OBP plans.
- Increase supply chain visibility for production planners and schedulers using PPDS only.

#### Short-term Production Planning and Detailed Scheduling delegated:

- In addition to detailed *scheduling* features also use the *production planning* features of PPDS for these location materials.
- Replan OBP inhouse production plans by using PPDS planning algorithms *within the Detailed Planning and Scheduling Horizon* of OBP.
- Planned orders created in PPDS are protected in OBP without the need of fixing them or protecting them with OBP freeze horizons.

Existing and new scenarios in Production Planning Integration will be coupled with the **Flexible Integration** feature of PPDS.

#### Flexible Integration in S/4 HANA 2021:

- This SAP S/4 HANA 2021 innovation will allow to restrict planning and scheduling features for location materials integrated with PPDS.
- OBP owned plans will be protected against changes or rescheduling in PPDS by coupling OBP's PPIMs:
  - Detailed scheduling delegated (available since IBP 2008)
  - Short-term Production Planning and Detailed Scheduling delegated (new in 2108)
  - Displayed in Detailed Planning and Scheduling (new in 2108)with the Flexible Integration scope options of SAP S/4 HANA 2021.

Most notably, also OBP-owned procurement and distribution plans will be protected in PPDS.

#### Important Note:

The new PPIMs are not available with S/4 HANA 2020.

While the two new PPIMs are visible in the drop down values of field *Production Planning Integration Mode* in IBP release 2108, they cannot be used until SAP S/4 HANA 2021 availability. OBP documentation for the new PPIMs will not be available until SAP S/4 HANA 2021 shipment. Documentation via IBP Online Help and Restriction Note 2971444 will be updated with an IBP 2108 Hotfix Collection in October, 2021.



# **Interactive Planning:** Create stock transfer requisitions as demand from a ship-from location with key figures

## **Use Case:**

A distribution planner wants to interactively plan stock transfer requirements starting from a ship-from location with respect to a planned start date.

## **Details:**

- You can now create stock transfer requisitions as demand from a ship-from location.
- Previously, stock transfer requisitions were always created as a receipt for a ship-to location.
- This new feature enables you to push existing stock from one location to another.
- The demand is created based on the requested date for the shipping from the ship-from location.
- **These planned receipts are fixed automatically.**
- **Planned receipts are created infinitely (without considering any constraints).**

# Interactive Planning: Create planned receipts as demand for a ship-from location

## 1. Maintain key figure **Distribution Demand for Interactive Planning**.

ing

E\_A

IAP\_LANE

Last Refresh: 2021-Jul-12 23:50:41

User: Ralf Heimbürger | Planning Area: SAP72108C

Material Number	Ship-From Loc. ID	Ship-To Location ID	Mode of Transport ID	Key Figure	07/12/2021	07/13/2021	07/14/2021	07/15/2021	07/16/2021	07/17/2021	07/18/2021	07/19/2021	07/20/2021	07/21/2021	07/22/2021	07/23/2021	07/24/2021	
RH30_PHONE_A	FA1	DC1	DEF	Distribution Demand (Lane)	0	0	0	0	0	10	11	12	0	0	0	0	0	
				Distribution Demand Confirmed (Lane)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Distribution Demand Planned (Lane)	0	0	0	0	0	10	11	12	0	0	0	0	0	0
				Distribution Demand Planned Fixed (Lane)	0	0	0	0	0	10	11	12	0	0	0	0	0	0
				Distribution Demand Planned Unfixed (Lane)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Distribution Demand for Interactive Planning	10 11 12													
				Distribution Receipt (Lane)	0	0	0	0	0	0	0	10	11	12	0	0	0	0
				Distribution Receipt Planned (Lane)	0	0	0	0	0	0	0	10	11	12	0	0	0	0
				Distribution Receipt Planned Fixed (Lane)	0	0	0	0	0	0	0	10	11	12	0	0	0	0
				Distribution Receipt Planned Unfixed (Lane)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## 2. Run the application job **Order-Based Planning: Create Planned Receipts from Interactive Key Figures**.

## 3. Check result in the *Projected Stock* app, Excel Add-In, or *Web-Based Planning* app.

# Interactive Planning: Planned Start Date in job templates Delete Planned Receipts and Fix or Unfix Planned Receipts

## Basis for Time Selection

You can choose how your time selection should be applied for your chosen operation.

**Planned Start Date** is when the production or transportation of a material starts

**Planned End Date** is the date on which a material becomes available at its target location.

The screenshot shows the SAP 'New Job: Order-Based Planning: Delete Planned Receipts' interface. The top navigation bar includes the SAP logo and the title 'New Job: Order-Based Planning: Delete Planned Receipts'. Below the navigation bar, there are three steps: 1. Template Selection, 2. Scheduling Options, and 3. Parameters (Optional). The 'Parameters (Optional)' step is currently active.

The main content area is titled 'Parameter Section' and contains several sections:

- General:** Includes 'Version or Scenario' (SAP72108C / Base Version) and 'Run from Excel Add-In' (No).
- Source of Supply:** Includes 'Planning Filter' (empty).
- Time Selection:** Includes 'First Day' (Today), 'Number of Days' (1), 'Time Zone' (UTC+0 (UTC) x), and 'Basis for Time Selection' (Planned Start Date). The 'Basis for Time Selection' dropdown is highlighted with a red box.
- Receipt Types:** Includes checkboxes for 'Purchase Requisitions', 'Stock Transfer Requisitions', 'Deployment Requisitions', and 'Planned Orders'.
- Receipt Scope:** Includes 'Fixing Status' (Fixed and Unfixed), 'Receipts in Freeze Horizon' (checkbox), 'Fixed in Release Process' (checkbox), and 'PP Stage' (Operational Supply Planning).

At the bottom right, there are buttons for 'Schedule', 'Check', 'Template', and 'Cancel'.

# Interactive Planning: Fixed in Release Process

- In ERP a release (approval) procedure can be set up for purchase requisitions.
- If for example, a purchase requisition exceeds a certain value, you can define that manager approval is required for this expenditure before the purchase requisition can be released.
- Approved purchase requisitions have the status **Fixed in Release Process**.
- Purchase requisitions that are **Fixed in Release Process** are protected by default in the Delete Planned Receipts application job and in the Fix or Unfix Planned Receipts application job.
- The planner can uncheck the **Fixed in Release Process** checkbox in the Delete Planned Receipts application job and in the Fix or Unfix Planned Receipts application job.
- Now these purchase requisitions are deleted or fix/unfixed by the above mentioned application jobs.

The screenshot displays the SAP S/4HANA configuration interface for the 'New Job: Order-Based Planning: Delete Planned Receipts'. The interface is divided into three main sections: 1. Template Selection, 2. Scheduling Options, and 3. Parameters. The 'Parameters' section is currently active, showing various settings for the application job. The 'Fixed in Release Process' checkbox is highlighted with a yellow box, indicating its importance in the configuration. The 'Receipt Types' section includes checkboxes for Purchase Requisitions, Stock Transfer Requisitions, Deployment Requisitions, and Planned Orders. The 'Receipt Scope' section includes a dropdown for Fixing Status (set to 'Fixed and Unfixed'), a checkbox for Receipts in Freeze Horizon, and a dropdown for PP Stage (set to 'Operational Supply Planning'). The 'Time Selection' section includes fields for First Day (Today), Number of Days (1), Time Zone (UTC+0 (UTC)), and Basis for Time Selection (Planned End Date).

Order-Based Planning: Delete Planned Receipts

1 Template Selection 2 Scheduling Options 3 Paramet... (Optional)

3. Parameters

Parameter Section

General

Version or Scenario: SAP72105CP / Base Version

Run from Excel Add-In: No

Source of Supply

Planning Filter:

Receipt Types

Purchase Requisitions: ☐

Stock Transfer Requisitions: ☐

Deployment Requisitions: ☐

Planned Orders: ☐

Receipt Scope

Fixing Status: Fixed and Unfixed

Receipts in Freeze Horizon: ☐

Fixed in Release Process: ☐

PP Stage: Operational Supply Planning

Time Selection

First Day: Today

Number of Days: 1

Time Zone: UTC+0 (UTC)

Basis for Time Selection: Planned End Date

Schedule Check Template Cancel

## Interactive Planning: Projected Stock app

- Status **Fixed in Release Process** added to element view.
- Purchase requisitions and stock transfer requisitions with status **Fixed in Release Process** can be deleted or unfixed.

SAP

Projected Stock ▾

Version SAP72108C / Base Version

Open In...

Standard ▾

Search

🔍

Version/Scenario:\*

SAP72108C / Base Version ▾

Material Number:

ZLT\_MEMORY ▾

Location Number:

🔍

Date Horizon for Status:

28 Days ▾

Type of First Deviation:

All ▾

Go

Adapt Filters (4)

Location Materials (6)

🔍

🔍

Material Number	Material Description	Location Number	Location Name	Date of First Deviation	Type of First Deviation	First Deviation	Projected Stock	Last Planning Run Type
ZLT_MEMORY	Memory	FA1	FA1 Glasgow		No Issues	0.000 EA	██	Confirmation Run
ZLT_MEMORY	Memory	FA2	FA2 Liverpool		No Issues	0.000 EA	██	Confirmation Run
ZLT_MEMORY	Memory	FA71	FA71 Glasgow		No Issues	0.000 EA	██	Confirmation Run
ZLT_MEMORY	Memory	FA72	FA72 Liverpool		No Issues	0.000 EA	██	Confirmation Run
ZLT_MEMORY	Memory	VH1	VH1 Bristol Vendor Hub		No Issues	0.000 EA	██	Confirmation Run

Material: ZLT\_MEMORY (Memory); Location: FA1 (FA1 Glasgow)

Stock Projection

Information

Items (13)

Element View

Daily View

Create ▾

Change

Start Planning Run

Period Settings ▾

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Requested or Pla...	Goods Receipt Date	Receipt or Require...	Type of Receipt or Requirement	Source or Destin...	Mode of Transport	Receipt or Requ...	Projected Stock	Production Version	Fixed in Release Process	Fix	Fixed for Planning
		Stock	Stock			0.000 EA	0.000 EA				Yes (based on order type)
06/09/2021	06/09/2021	10190517 / 10	Stock Transfer Requisition	VH1 Bristol Vendor ...	Default	20.000 EA	20.000 EA		Yes	☑	Yes (order fixed)
06/10/2021	06/10/2021	10188963 / 10	Purchase Requisition			11.000 EA	31.000 EA		Yes	☑	Yes (order fixed)
06/10/2021	06/10/2021	10188996 / 10	Purchase Requisition			20.000 EA	51.000 EA		Yes	☑	Yes (order fixed)
06/12/2021	06/12/2021	10190518 / 10	Stock Transfer Requisition	VH1 Bristol Vendor ...	Default	20.000 EA	71.000 EA		Yes	☑	Yes (order fixed)
06/17/2021	06/17/2021	10187591 / 3	Purchase Requisition			2.000 EA	73.000 EA			☑	Yes (order fixed)
06/18/2021	06/18/2021	10187590 / 3	Purchase Requisition			2.000 EA	75.000 EA			☑	Yes (order fixed)
06/22/2021	06/22/2021	10187593 / 3	Purchase Requisition			2.000.000 EA	2.075.000 EA			☑	Yes (order fixed)
06/22/2021	06/22/2021	10195660 / 10	Stock Transfer Requisition	VH1 Bristol Vendor ...	Default	7.925.000 EA	10.000.000 EA		Yes	☑	Yes (order fixed)
06/22/2021		30889 / 40	Planned Order Component	FA1 Glasgow		-10.000.000 EA	0.000 EA	Product Version 0001			No

## Today's Presenters from Product Management:

- [ina.glaes@sap.com](mailto:ina.glaes@sap.com) – Best Practices
- [rainer.moritz@sap.com](mailto:rainer.moritz@sap.com) – Demand & Demand Sensing
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# Thank you.

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