What’s New in SAP Integrated Business Planning
1811 (Planned)
SAP Product & Solution Management
October 30, 2018
PUBLIC
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Sneak Preview

As of 1811, the what’s new webinar as well as the application help are planned to be available before the actual release data.


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.”
Agenda

• Solution Updates - SAP Integrated Business Planning 1811 (Planned)
• SAP Best Practices for SAP IBP – 1811 Update (Planned)
• Documentation Updates
• Customer Availability Center & Customer Influence Center
• Information on Upgrades
• Q&A*

* Q&A chat is open for questions throughout the session with experts online to answer
Plan and respond with SAP Integrated Business Planning


Alerts and Exception Management  Pre-packaged KPI  Business Network Collaboration with SAP Ariba

Risk & assumptions Planning*  Financial  VMI*

Integrated Sales, Marketing & Financial Planning  Integrated Business Planning

Sales & Operations  Inventory  Response & Supply

Statistical Forecasting  Product Lifecycle Planning  Forecast Error Calculation

Demand Sensing  Segmentation  Finite Supply Planning

Demand  Multi-stage Inventory Optimization

Forecast Automation*  Deployment

Supply Chain Control Tower

Integration | Extensibility | Cloud | Machine Learning

19 industries | 400+ customer | 60+ partners | 6 data center | Gartner MQ - Leader

This is the current state of planning and may be changed by SAP at any time. * Roadmap Topic (Planned)
Analytics and Exception Management

Kenton Harman
IBP Navigation to SAP On-premise Systems

Overview

It is now possible to navigate from the IBP Analytics to on-premise SAP systems.

The app *Manage Navigation to Other Systems* (Navigation Framework in the App Finder) is used to configure valid system and parameters for the navigation.

Examples:

- Navigation from a chart to the Stock Requirements List (MD04) in SAP ERP, passing the location and product from IBP.
- Navigation from a chart to the Material Master (MM03) in SAP, passing the product from IBP.
IBP Navigation to SAP On-premise Systems

Static and Dynamic Navigation

• Static navigation: this type of configuration will appear on the IBP Analytics Advanced app all the time for the authorized users and it doesn’t depend on the attributes. For example, navigate to SAP ERP and start MD04 without passing any parameters.

• Dynamic navigation: this type of configuration will appear on the IBP Analytics Advanced app and it will depend on the selected data point. For example it can be that for certain products you would like to navigate to System A and for other products you would navigate to System B. Since the master data can come from different SAP ERP systems, you would like to start the transaction on the system where the product originated.
Dynamic navigation from Analytics

Depending on the data points, the Navigate To button will display the appropriate system where to navigate to.
Navigation to different systems depends on selected data point

Depending on the data points, the appropriate system will open with the transaction and the screen fields will be pre-filled depending on the mapping that has been maintained.

Note: The system must be configured on the SAP Logon Pad for the navigation to occur.
Roadmap

- Navigation from IBP Analytics: IBP 1811
- Navigation from IBP Custom Alerts: IBP 1902 (planned)
- Navigation from other relevant IBP apps: future (planned)
Value-based Filter

Overview

In the „Edit Planning View“ screen under tab „Filter“ you will now find an additional section called „Value-based Filter“ which allows you to apply additional filters on key figure values.

You can apply one value-based filter per planning view (sheet).

Examples:

- Show only customers where the annual sales Volume of the last year was above 1,000,000 EUR
- Identify product IDs where the forecast quantity was below 1,000 pieces in the next 3 months
- Only show combinations where the key figure value is not NULL/empty or zero.
Demo Value-based Filter
Value-based Filter Results

The value-based filter is applied once your click on „OK“ on the „Edit Planning View“ window, when you open a template or favorite with a value-based filter included, or when you refresh the planning view.

In case an attribute combination / planning level does not meet the value-based filter criteria, the whole combination will be removed from the planning view.

Before value-based filter was applied:

After value-based filter was applied:
Value-based Filter

Saved Filters in Templates and Favorites

• Value-based filters cannot be shared with other users and will not be visible to other users.

• Value-based filters are saved within templates, favorites and also offline workbooks.

• For other users, the saved value-based filter will not appear with the name you had given it, but will be called „Ad-Hoc Filter“. 

• So when you save your planning view, that contains a value-based filter as a template or as a favorite and share it with other users, these will see the same filter criteria but named differently (Ad-Hoc Filter).

• For value-based filters, there are no Template Admin options, such as „Don’t copy“, „Copy as suggestion“ or „Copy as mandatory“ (which you have for the attribute-based filters).
Planning Notes

Display of cell values

The value of the cell for which a user created a new planning note is now tracked within the note.

Business background:

- Other users, who review the planning note on a more aggregated or disaggregated level can easily see for which value the note was created. It should be easier to get the context of the note.

- In case the value is updated later on, e.g. by other users through disaggregation, then the context for which the planning note was created is still kept.

The value and the respective Unit of Measure or Currency at the point when the planning note was initially saved is tracked. The value is not updated when editing the planning note.
Planning Notes
User Settings Overview

The User Settings and Admin Settings were enhanced to default certain behavior of the planning notes for the users.

The settings can improve both the usability and the performance.
Planning Notes
User Settings Details II

Apply Planning Note Limit (5000):

Displaying large amounts of planning notes in a planning view has a significant impact on performance due to additional data that need to be read, written and rendered as Microsoft Excel comments on the Microsoft Excel UI.

In case you check this checkbox, no planning notes are displayed in planning views that would contain more than 5000 planning notes.

Show Planning Note Limit Instruction:

In case the user hits the above mentioned limit of 5000, they would get an instruction why they don't see any planning notes. The additional instruction can be disabled.
Planning Notes
User Settings Details III

Threshold for Auto-Sizing of Planning Notes:

Set a threshold from which point onwards, the system should not automatically auto-size the planning notes on the planning view at cell mouse-over.

- In this example, planning views with 7 or less planning notes are automatically auto-sizing all planning notes on the planning view.
- Please keep the performance considerations in mind. Auto-sizing large amounts of planning notes on the Microsoft Excel front end can have a significant performance impact.
- In any case, the planning notes would auto-size when the user clicks into the cell. The threshold is only for the auto-sizing for the mouse-over case.
- Default is set to 0.
Planning Notes
User Settings Details IV

Perform Planning Note Validation:

You can decide if an additional validation step should run when saving planning notes and inform the user about invalid changes.

Invalid changes in planning notes can happen when the user changes an IBP planning note with native Microsoft Excel functions.

In both cases, the invalid changes to the planning note will not be saved. But with the additional validation check switched on, the system will provide the user with information in a warning message. So the user has a better chance to see that the changes he made to the note were invalid and will not be saved.

Please note: The additional validation check can have a negative impact on the performance and could be skipped for users who are well aware of the restriction to not use any Microsoft Excel native comments functionality with IBP Planning Notes.

As a default, the validation is switched on.
Planning Notes
Disabled Microsoft Excel native comment option in context-menu

It is not possible to create, edit or delete IBP Planning Notes with Microsoft Excel native functions. To prevent the user to use this option by accident, we have disabled the functions for all IBP Planning Views in the context menu (at right-click).

Disabled in context menu (right-click):

However, from SAP side, we cannot disable these functions in the „review“ ribbon of the Microsoft Excel installation and the user could still accidentally use these. That's why the validation check is still in place but can now be disabled in the user settings.

OK to use with IBP Planning Notes

Cannot be used with IBP Planning Views. Changes are not saved to the IBP backend and will be lost.

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Enhancement to the EPM formatting rules

Union Flag I

Possibility to consolidate multiple EPM formatting rules as an OR conjunction, which can have a positive impact on the performance when the formatting rules are applied.

In case you want to set the same formatting rule for different members, you can now use the “Union” flag in the “Union" flag in "Multiple Selection Overview" tab to group these.

1) Add multiple members to the „Multiple Selection“

2) On the „Multiple Selection Overview“ tab, set the „Union“ flag

3) New rule is created for all at once and you can set the formatting rule as usual:

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Enhancement to the EPM formatting rules

**Union Flag II**

Key figure attributes is one example, but of course the Union flag can also be used with any other attributes. You can also set a combination of multiple different attributes. That would then lead to an OR and AND conjunction.

Example:

In this example, the rule would apply if the key figure name is either “Actuals Price”, “Actuals Revenue”, OR “Sensed Demand Qty Adjusted”, AND if the month is either “DEC 2016”, “Jan 17”, OR “Feb 17”.

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Sales & Operations Planning
Raghav Jandhyala
Automated Recurring Processes

- **Manage Recurring Processes** app allows you to automate the creation of new processes that repeat regularly.
- Define Planning Calendar for recurring processes
- Schedule all recurrences of a process in one go. You can decide if the process should repeat Monthly or Weekly
- View Recurring Processes in Manage Processes App.
Demo Recurring Processes
Demand Planning
Gradient Boosting
Configure Gradient Boosting in IBP for Demand

ZB_GBDT_MAXTEMP_AND_DUMMIES
Planning Area IBP4DCUST

Overall Parameters
- Main Input for Forecasting Steps: Sales History
- Target Key Figure for Forecast: Statistical Forecast Editable
- Consider Product Lifecycle Information: 
- Target Key Figure for Ex-Post Forecast: Statistical Forecast Editable

Algorithms
- Gradient Boosting of Decision Trees
  - Maximum Number of Trees: 100
  - Learning Rate: 0.1
  - Maximum Tree Depth: 3

Key Figures (1)
- Independent Variable: Maximum Temperature

System-Generated Features
- Month of the Year: 
- Quarter of the Year: 
- Day of the Week: 

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Advantages

- importance of predictor variables is determined automatically
- no need for input transformations
- can model complex non-linear relationships
- they can automatically handle interactions and dependencies between predictors
- are insensitive to outliers
- can handle many predictor variables
Disadvantages

• not good for trending items
• quick to learn and overfit training data
• not able to make a good prediction for cases where the independent variables have totally different future values compared to the past.
• Runtime increases when the number of trees/tree depth is raised
Demand Planning

Data-Realignment
What’s new in IBP 1811

This presentation describes IBP Data Realignment as of release IBP 1811. Changes or added functionality introduced in 1811 are highlighted on the respective slides. Below you can find an overview on the most important changes:

(1) Copy of Realignment Steps
   On the Realignment Project UI you can now copy one or several steps of a realignment project.

(2) Deletion of Source Planning Objects
   When realigning key figure values you can now choose to delete obsolete source planning objects by selecting the 'Delete Source Planning Objects' option in the Processing Options on the Realignment Step UI.

(3) Selection Option 'not equal'
   You can now exclude data from realignment by adding 'not equal' selections.

(4) Enhanced Selections for Realignment of Compound Master Data Types.

(5) New Checks and Improved Error Handling
   Additional checks in the Realignment Steps UI prevent invalid entries. More specific error messages with explanatory long texts are available.

What’s new in IBP 1811
This is the current state of planning and may be changed by SAP at any time.
Manage Realignment Rules App – Project Overview Screen

On this UI you can:
- Define a Project Name
- Assign a Planning Area
- Create & Delete Steps
- Copy Steps (New in 1811)
- Move Steps Up/ Down
- Change the Project Status
- See Administrative Information about
  - Project Creation
  - Project Change
  - Project Approval
  - Project Execution

### Realignment Project

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Step Name</th>
<th>Status</th>
<th>Attribute Mappings</th>
<th>Changed By</th>
<th>Changed On</th>
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<td>UC1: REPLACE PRODUCT GROUP</td>
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<td>UC6: CLOSE DC (2/2)</td>
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### Log

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<td>09/25/2018, 12:30:22</td>
<td></td>
</tr>
</tbody>
</table>

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Via the 'Delete Source Planning Objects' option (New in 1811) you can control if source planning objects shall be deleted after adjusting key figure values.

This is the current state of planning and may be changed by SAP at any time.
Manage Realignment Rules App – Realignment Step
Selection Section

You can use the following Selection Options to define filters:
- equal to
- not equal (New in 1811)
- contains
- starts with
- ends with
- is empty

When adjusting key figure values, specified filters are considered only for planning levels in which they are contained.

Realigning of master data types
- In general only selection criteria for contained attributes are considered
- For compound master data types selection criteria referring to the simple master data type of the key fields are considered too. An example can be found on the next slide. (New in 1811)
Manage Realignment Rules App – Realignment Step
Enhanced Selections for Realignment of Compound Master Data Types (MDTs)

For compound MDTs selection criteria for the simple MDT of the key fields are considered too.

Example:

When realigning attribute PLANNER you can now also specify filters for attributes PRDFAMILY and LOCTYPE from the referenced simple MDTs.
Demand Planning
Manage Product Life Cycle
Manage Product Lifecycle Fiori app

Objectives - Mass upload

- Product assignments and forecast dates can be uploaded separately from a .csv file.
- Launch dimensions are uploaded with the forecast dates upload.
Manage Product Lifecycle Fiori app

Objectives - Mass upload

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Settings for Product Lifecycle
Fiori Application
Settings for Product Lifecycle Fiori app

Starting the app

From 1811 there is a new app to introduced to further improve usability of product life cycle mgmt app.

The idea is to create profiles where repeated steps are predefined and assigned to individual users/groups by e.g. a power user.
Demand Sensing
Innovation Overview

With SAP Integrated Business Planning 1811, the demand sensing algorithm can accept up to eight different downstream signals like point of sale, warehouse inventory etc. The algorithm then detects the correlation between each of this signal and actual weekly demand, and incorporate it in the weekly pattern adjustment calculation that subsequently improves the sensed demand accuracy.

- Downstream data has to be provided at customer, product, location level with periodicity at daily or weekly level.
- It is recommended to have a minimum of 52 weeks of downstream data to allow for sufficient pattern recognition.
Configuration
Support Multiple Downstream Signals

With 1811, up to eight downstream signals can be configured in the demand sensing forecast model.

Can add up to 8 downstream signals

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Introducing maximum storage capacity constraint in inventory optimization

- Inventory optimization to consume storage capacity constraints at the product location level with input key figures:
  - IOMAXINVENTORY
  - MAXINVENTORYVIOLATIONCOSTRATE

- Two global configuration settings and two input key figures required:
  - Parameter group: INVENTORY
  - Parameter name: STORAGE_CAPACITY_CONSTRAINTS
    - Parameter value: “ignore” (default value) or “consider”
  - Parameter group: INVENTORY
  - Parameter name: STORAGE_PENALTY_OPTION
    - Parameter value: “fixed” or “variable” (default value)

- STORAGE_PENALTY_OPTION:
  - “Fixed” option that minimizes the number of stocking points when a storage constraint is violated, assuming a large fix cost to resolve the storage problem
  - “Variable” option that minimizes the total cost of storage, assuming a variable cost for additional required storage
New flow through lead-time and lot-size key figures

• Generation of new output key figures by the multistage inventory optimization operator to aggregate lead times and lot sizes between an upstream stocking node sourcing a non-stocking node that, in turn, sources a downstream stocking node – via the non-stocking push global configuration introduced in the IBP 1808 release.

• At WKPRODLOCSRC:
  • CALCPLEADTIME
  • CALCPMINLOTSIZE
  • CALCPINCLOTSIZE
  • CALCPLEADTIMEVARIABILITY

• At WKPRODLOCLOCFR:
  • CALCTLEADTIME
  • CALCTMINLOTSIZE
  • CALCTINCLOTSIZE
  • CALCTLEADTIMEVARIABILITY

• Support for these key figures as inputs by the single stage inventory optimization operator.

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Save scenario results to your baseline plan in the SAP Fiori app to manage DDMRP scenarios

- User ability to save all key-figure outputs to baseline plans after creating, analyzing, and approving scenario results in the SAP Fiori app for managing DDMRP scenarios.

- Addition of a “Save to Baseline” button to the footer bar of the app.

- After the saving the key figure outputs, update of baseline results equal to scenario results in the user interface.

- Improved usability via replacement of the bar chart with a summary table.

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SAP3B sample model (DDMRP) – support for multiple buffer profiles

- User ability to establish more than one buffer profile defined by unique PROFILESETID values and set such unique PROFILESETID values by location.
- Resulting user ability to apply different buffer profile settings at each location, depending on definitions of item type, lead time, and variability categories.
- Attribute PROFILESETID – a key attribute in the BUFFERPROFILE master data type and a non-key attribute in the LOCATION master data type.
- No calculation of buffer values if no PROFILESETID value exists in the location master data.

This is the current state of planning and may be changed by SAP at any time.
SAP3B sample model (DDMRP) – supports override of buffer profile categories

- User ability to override ITEMTYPECATEGORY, LEADTIMECATEGORY, and VARIABILITYCATEGORY attributes using the attributes ITEMTYPECATEGOVERRIDE, LTCATEGOVERRIDE, and VARCATEGOVERRIDE, respectively

- Override attributes that support cases where users want to revise the attribute results for the demand-driven materials requirements planning operator category at the product-location level such as by a priori segmentation analysis

- Non-key attributes, ITEMTYPECATEGOVERRIDE, LTCATEGOVERRIDE, and VARCATEGOVERRIDE, in the LOCATIONPRODUCT master data type

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Location ID filter added to the SAP Fiori app “Supply Chain Network Visualization”

• User ability to render simpler network charts with the location ID filter, which is an optional filter located between the product ID and key figure filters in the app’s filter bar.

• Upon user selection of a product with a corresponding location, chart rendering of only nodes matching both the product ID and location ID; generation of product nodes if a transformation occurs.

• Upon rendering of a chart with location ID values not related to product ID values, chart rendering for selected product ID values and not the unrelated location ID that was selected.

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Navigating from the SAP Fiori app “Supply Chain Network Visualization” to the Analytics and Dashboards apps

- After creating and saving a network chart, navigate to either the Analytics app to create other charts or the Dashboards app to add the network chart to a dashboard.
- Click the "Go To" button, which has been added to the footer bar of the app to support such navigation, and use the pop-up window for navigation to the Analytics app or the Dashboards app.
- Navigate to Analytics to open the Analytics app list manager.
- Navigate to Dashboards to open the Dashboards app list manager.
## Inventory Optimization Algorithm: Smoothing for continuous binary sourcing

### Algorithm Enhancement

<table>
<thead>
<tr>
<th>Planning Operator: Global (Multi-Stage) Inventory Optimization</th>
<th>Driver</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Configuration</td>
<td>In a multi-sourcing scenario, whenever a node changes the sourcing ratio across suppliers that have different lead times, Recommended Safety Stock of that node can have either a spike or a dip.</td>
<td>Spikes and dips are detected based on the sum of the incoming supply ratios offset by their respective lead times.</td>
</tr>
<tr>
<td>Parameter Group: INVENTORY</td>
<td>Switching from a short lead time to a long lead time source of supply creates a spike on Recommended Safety Stock, whereas switching from a long lead time to short lead time source of supply creates a dip.</td>
<td>A spike on a period is removed using the maximum arc’s Recommended Safety Stock of that period.</td>
</tr>
<tr>
<td>Parameter Name: SMOOTH_SS_AROUND_SRC_CHANGE</td>
<td>If setting not configured, or any other value provided, the application will default to Parameter Value NO.</td>
<td>A dip is removed using the average of the Recommended Safety Stock before and after that period.</td>
</tr>
<tr>
<td>Parameter Value: YES, NO or any other value.</td>
<td>Binary sourcing input data must exist in each period of the planning area’s planning horizon configuration for the smoothing parameter to work.</td>
<td></td>
</tr>
</tbody>
</table>

### Diagram

![Diagram showing Recommended Safety Stock and Smoothed Recommended Safety Stock over time](image-url)

- Recommended Safety Stock
- Smoothed Recommended Safety Stock

This is the current state of planning and may be changed by SAP at any time.
# Inventory Optimization Algorithm: Fractional Exposure (PBR + LT) in Backlog Calculation

<table>
<thead>
<tr>
<th>Algorithm Enhancement</th>
<th>Driver</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning Operator: Global (Multi-Stage)</td>
<td>- Currently, the IO algorithm rounds the fractional exposure up to a multiple of weeks in the calculation of backlog.</td>
<td>- Adjust the algorithm to consider fractional exposure in the calculation of backlog (still in a weekly model).</td>
</tr>
<tr>
<td>Inventory Optimization</td>
<td>- For example, if PBR = 1 day and LT = 1 week, exposure of 1.14 will be rounded up to 2 weeks.</td>
<td>- For example, if PBR = 1 day and LT = 1 week, exposure of 1.14 will consider the full demand in the last week and 0.14 period of demand in week 2 to evaluate the unmet demand.</td>
</tr>
<tr>
<td>Global Configuration</td>
<td>- The backlog is calculated based on the demand over the past two weeks.</td>
<td></td>
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<tr>
<td>Parameter Group: INVENTORY</td>
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<td></td>
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<tr>
<td>Parameter Name: EXPOSURE_ROUNDING_FOR_BACKLOG</td>
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<td></td>
</tr>
<tr>
<td>Parameter Value: YES, NO or any other value.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If setting not configured, or any other value provided, the application will default to Parameter Value YES.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Inventory Optimization Algorithm: Change in handling cyclical sourcing (loops)

• IO algorithms can now handle cyclical sourcing. For such, a new parameter value has been added to the existing LOOP_HANDLING parameter name.

• Global Configuration setting:
  • Parameter Group: INVENTORY
  • Parameter Name: LOOP_HANDLING
  • Parameter Value: LOG or REMOVE or ENABLE

• Configuration Rules:
  • If the parameter value is set to LOG, then the loops are logged in business logs.
  • If the parameter value is set to REMOVE, then the loops are logged and removed.
  • If the parameter value is set to ENABLE, then the AFL will log and run IO operators successfully when time-varying sourcing ratios create cycles.
  • If any other Parameter Value different from LOG, REMOVE or ENABLE is provided, then the REMOVE parameter value functionality is invoked.
  • If the global configuration is not configured, then the application applies the REMOVE parameter value.
Order-based Planning
Andrew Boyle & Claus Bosch
Agenda

- Planning Start Date
- Safety Stock Reduction
- Order-based optimizer: Key Figures for cost maintenance
- Aggregation of Gating Factors
- Multiple Modes of Transport
Planning Start Settings

The Planning Start Date allows you to set the point in time that is considered in planning as “now” to a date in the past or the future. For one time jobs, the planning start date can be set to an specific date.

Options:

• Job Execution Time (current behavior)
• Calendar Day (exact date)
• Today, Tomorrow, Yesterday (relative to job execution time)
• Specific Weekday in the Current Week, Previous Week, Next Week (relative to job execution time)
Safety stock reduction

IBP Order-based planning priority heuristic behavior >= IBP1811:

Projected stock exceeding the defined safety stock can now be reduced during planning runs.

IBP OBP priority heuristic assigns supply for sales orders and forecasts first. After that, the heuristic tries to satisfy the safety stock for those location materials for which it has been defined.

• For days with projected stock below the safety stock, the heuristic searches for additional supply.
• For days where the projected stock is above the safety stock, the heuristic now evaluates options to reduce the projected stock by reducing or deleting supply.
• It follows the defined priorities, that is, it first reduces supply from a low-priority source of supply or a low-priority transportation lane.

This new behavior reduces the overall inventory, especially in scenarios with changing safety stock levels or lot sizes. It also improves the safety stock situation of other locations which could benefit from the reduced amounts.

This is the current state of planning and may be changed by SAP at any time.
Example of safety stock / projected stock

Old safety stock handling

New safety stock handling

This is the current state of planning and may be changed by SAP at any time.
Order-based Optimizer – Response heuristic

Opposite to the Constrained Forecast Run using response heuristic (priority/rules-based) the order-based optimizer is cost-based.

Using the optimizer, planning will generate plans using a holistic view on the supply chain and yield in global optimal plans considering the given cost setup and constraints to consider.

Optimizer will balance orders to maximize the profit and minimize the overall cost of the generated plan.

<table>
<thead>
<tr>
<th>Business Objective</th>
<th>Optimizer</th>
<th>Response Heuristic</th>
</tr>
</thead>
<tbody>
<tr>
<td>create a feasible plan with minimum costs or maximized profit</td>
<td>create a feasible plan by fulfilling the highest-priority demands first</td>
<td></td>
</tr>
</tbody>
</table>

This is the current state of planning and may be changed by SAP at any time.
Constrained Forecast Run (using Order-based Optimizer)

The order-based optimizer is offered as planning run type “Constrained Forecast Run”: no consideration of product allocation constraint

The constrained forecast run in IBP Order-based planning is the basic planning run to plan forecast demand (key figure demand) and derive the constraint forecast key figure(s). This planning run also considers fixed requirements and receipts (for example stock) from execution system.

The constrained forecast run creates, when necessary, multi-level receipts and considers the different valid sources of supply available. Constraints considered in the constraint forecast run are:

- Resource Capacity
- Supplier Constraint
- Material availability and lead time

Additionally, the constrained forecast run determines the constrained forecast key figure and stores this data in the corresponding key figure of the IBP planning area defined in the settings for order-based planning.
Order-based optimizer - Cost Key Figures

Cost key figures are an alternative to the cost settings in the application job control parameters. The key figures need to be maintained via the IBP Excel AddIn.

The advantage of using cost key figures is that you can set different transportation costs and production costs for different sources of supply, and you can set different inventory holding costs for different location materials.

You can also combine the cost rates from the job parameters with cost key figures. Note that as soon as a key figure is maintained for at least one period, it overrides the cost parameter.

When key figures have periods with missing values, a warning message will be displayed in the application job log.

Note:

The transportation cost key figures are meant to comprise both, plant-to-plant lanes and supplier-to-plant lanes. Therefore, include your procurement costs into the transportation cost key figures.
Sample Cost Key Figures for the Order-Based Planning

Six cost key figures are added to the SAP7 sample planning area. You can assign them in the Settings for Order-Based Planning app so that the Order-Based Planning: Constrained Forecast Run Using Optimizer considers the related cost time series.

New Cost Key Figures:

- Inventory Holding Cost Rate
- Safety Stock Violation Cost Rate
- Transportation Cost Rate
- Fixed Transportation Cost
- Production Cost Rate
- Fixed Production Cost

This is the current state of planning and may be changed by SAP at any time.
### Aggregation of Gating Factors

- In application “View Gating Factors”, the “Affected Quantity” is aggregated for gating factors for the same primary demand, same gating factor type, same constraint (“Gating Factor for”), same gating factor date and same “GF dates derived from fixed receipt”-indicator and show only one gating factor.

- Analyze Demand still shows the gating factors not aggregated, and allows navigation to the affected supply element.

#### Demands with Gating Factors (2022) : Standard *

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Gating Factor For</th>
<th>Affected Quantity</th>
<th>Gating Factor Date</th>
<th>GF Date Derived From Fixed Receipt</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>000000000000000091428</td>
<td>TK1_BOARD_A, FAT1</td>
<td>120 Ea.</td>
<td>24.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_BOARD_A, FAT2</td>
<td>37 Ex.</td>
<td>26.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_CASE_A, FAT1</td>
<td>139 Ex.</td>
<td>24.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_CASE_A, FAT2</td>
<td>37 Ex.</td>
<td>26.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_CPU_A, FAT1</td>
<td>95 Ex.</td>
<td>24.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_MEMORY, FAT1</td>
<td>244 Ex.</td>
<td>26.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_MEMORY, FAT2</td>
<td>74 Ex.</td>
<td>26.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_MEMORY, VAT3</td>
<td>213 Ex.</td>
<td>13.07.2018</td>
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<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_PACKAGING_A, FAT1</td>
<td>36 Ex.</td>
<td>25.07.2018</td>
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<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_PHONE_A, DC72</td>
<td>419 Ex.</td>
<td>13.08.2018</td>
<td>No</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_CPU_A, FAT2</td>
<td>37 Ex.</td>
<td>26.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_MEMORY, VAT1</td>
<td>39 Ex.</td>
<td>27.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_A1, FAT1</td>
<td>122 Unit</td>
<td>25.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_A1, FAT1</td>
<td>263 Unit</td>
<td>10.09.2018</td>
<td>No</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_A2, FAT2</td>
<td>27 Unit</td>
<td>27.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_M1, FAT1</td>
<td>122 Unit</td>
<td>25.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_M1, FAT1</td>
<td>263 Unit</td>
<td>10.09.2018</td>
<td>No</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_M2, FAT2</td>
<td>37 Unit</td>
<td>27.07.2018</td>
<td>Yes</td>
<td>1428</td>
</tr>
<tr>
<td>000000000000000091428</td>
<td>TK1_P1, FAT1</td>
<td>263 Unit</td>
<td>11.08.2018</td>
<td>No</td>
<td>1428</td>
</tr>
</tbody>
</table>

This is the current state of planning and may be changed by SAP at any time.
Using different Mode of Transport allows flexibility in case of Lateness!

Duration:
- Plant New York to Hamburg: 20 calendar days
- Plant Hamburg to New York: 2 calendar days

This is the current state of planning and may be changed by SAP at any time.
Use cases

Using different Mode of Transport allows flexibility in case of Lateness

- Automatic selection of Mode of Transport (in general or in specific planning versions)
- Planner expedite Transports

More exact modelling of Transportation in Supply Chain:

- **time-dependent Mode of Transport** (with MoT specific Lot Sizes): e.g. Ships only in Summer time, Rail in winter time.
- **Product specific**: certain products have to go with specific MoTs (e.g. frozen products can be shipped on cold MoT)
Planning with Transportation Lanes containing MoT in SAP IBP

Transportation Lanes with MoT are used as a Source of Supply in all existing Planning run types. Source of Supply determination or Late-Handling of Engine keeps as it is.

Example: Lateness of Demand

The fastest MoT has the lowest Procurement Priority (AIR 1 day but Priority 2)

<table>
<thead>
<tr>
<th>Natural</th>
<th>Location To</th>
<th>L</th>
<th>T</th>
<th>Location From</th>
<th>L</th>
<th>Proc. MoT</th>
<th>PRT</th>
<th>Procurement Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA2_PHONE_A</td>
<td>DC2</td>
<td>P</td>
<td>7</td>
<td>FAT</td>
<td>P</td>
<td>AIR</td>
<td></td>
<td>1,00</td>
</tr>
<tr>
<td>MA2_PHONE_A</td>
<td>DC2</td>
<td>P</td>
<td>7</td>
<td>FAT</td>
<td>P</td>
<td>SEA</td>
<td></td>
<td>1,00</td>
</tr>
</tbody>
</table>

e.g. Requested date of a Sales Order is tomorrow: Confirmation Run will use MoT AIR to keep lateness to a minimum.
Where can I see the Order’s MoT in SAP IBP?

IBP Excel Add-In:

SAP FIORI apps:
Make use of adjusted quantity key figures for seasonal Mode of Transport

Use case: *time-dependent Mode of Transport* (with MoT specific Lot Sizes): e.g. Ships only in Summer time, Rail in winter time.

Maintain “0” values in periods where the Source of Supply must not be used by the Planning Runs.

<table>
<thead>
<tr>
<th>adjusted Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material ID</td>
</tr>
<tr>
<td>Mode of Transport ID</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
<tr>
<td>Distribution Receipt (Lane: Planned)</td>
</tr>
</tbody>
</table>

It’s not yet possible to multiple validity periods per Transportation Lane Master Data.
Maintain Transportation Lane in SAP ERP or S/4
Generate Transportation Lanes based on Info Records or SobSL

Example: SobSL DC2 is supplied by FA2
TLane is created with MOT from Customizing table

1.) Process Sobsl/Info Record/MARC

e.g. Source FA2, Target DC2, Pl.Del.Time = 2 days

2.) run initial Transportation Lane Load
Transaction: /IBP/ECC_INT_TLANE

<table>
<thead>
<tr>
<th>source</th>
<th>target</th>
<th>MOT</th>
<th>Product</th>
<th>duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA71</td>
<td>L721</td>
<td>Truck</td>
<td>Phone A</td>
<td>21</td>
</tr>
<tr>
<td>FA71</td>
<td>L721</td>
<td>Air</td>
<td>Phone A</td>
<td>5</td>
</tr>
<tr>
<td>FA71</td>
<td>DC71</td>
<td>Truck</td>
<td>Phone A</td>
<td>21</td>
</tr>
<tr>
<td>FA2</td>
<td>DC2</td>
<td>Express</td>
<td>Phone B</td>
<td>8</td>
</tr>
<tr>
<td>FA2</td>
<td>DC2</td>
<td>Rail</td>
<td>Phone B</td>
<td>2</td>
</tr>
</tbody>
</table>

This is the current state of planning and may be changed by SAP at any time.
Maintain Transportation Lane in SAP ERP or S/4

Manual maintenance of Transportation Lanes between Plants

Transaction: /IBP/ECC_TLANE

Display Transportation Lanes

<table>
<thead>
<tr>
<th>Material</th>
<th>Location To</th>
<th>L.T. Location From</th>
<th>L Purc.</th>
<th>MoT</th>
<th>Avail. Fr.</th>
<th>Available To</th>
<th>Procurement Priority</th>
<th>Plnd Delv.</th>
<th>QUn. Info Recor</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA1_PHONE_A</td>
<td>DC1</td>
<td>P 7 FA1</td>
<td>P</td>
<td>AIR</td>
<td>01.01.1970</td>
<td>31.12.9999</td>
<td>0,00</td>
<td>99</td>
<td>EA</td>
</tr>
<tr>
<td>MA1_PHONE_A</td>
<td>DC1</td>
<td>P 7 FA1</td>
<td>P</td>
<td>INTERMODE</td>
<td>01.01.1970</td>
<td>31.12.9999</td>
<td>0,00</td>
<td>999</td>
<td>EA</td>
</tr>
<tr>
<td>MA1_PHONE_A</td>
<td>DC1</td>
<td>P 7 FA1</td>
<td>P</td>
<td>RAIL</td>
<td>01.01.1970</td>
<td>31.12.9999</td>
<td>1,00</td>
<td>2</td>
<td>EA</td>
</tr>
</tbody>
</table>
Orders Elements are exchanged with MoT between IBP and SAP ECC or S/4.

During order conversion in SAP ECC or S/4 the MoT of predecessor document is retained. However the order scheduling is done according to SAP ECC or S/4 Logic.

MoT is derived from Master data for order elements that are created in SAP ECC or S/4 (by users manually).
Supply Planning

Pramod Mane
New Algorithm Type for Shelf-Life Heuristic

- Generates supply plan considering minimum shelf life of customer demand and remaining shelf life of existing batches
- Performs Demand/Supply match of batches at each stocking node considering the transportation lead-times.
- Considers minimum shelf-life for each component specified at the production sources. The production receipts inherit the remaining shelf life from production source
- Provides tactical Visibility for the purpose of Business Planning/S&OP to understand how much inventory will expire that needs to be written off and re-planned
New Algorithm Type for Shelf-Life Heuristic

New SAP4S sample planning area

Contains the master data types, attributes, key figures, and planning levels for the shelf life planning heuristic.

The SAP4S sample planning area contains the master data type Shelf Life (SL4SHEFLIFE) for use exclusively with the shelf life planning heuristic.

Its root attribute SHEFLIFEID defines the shelf life of a product as a number of periods. Some key figures derive their shelf life from this attribute, so you must add it to key figures in your planning area as a root attribute.
New Algorithm Type for Shelf-Life Heuristic

The time-series-based shelf life planning heuristic doesn't support the following features:

- Receipts balancing
- Subnetworks
- Supply propagation
- Forecast consumption
- Carry over negative stock
- Lot size policies 1 and 2 (static and dynamic periods of supply)
- Lot size policy 3 (production cycle lot size)
- Supply on a batch ID level, including batch IDs and batch numbers. Quantities of batches with the same remaining shelf life are aggregated (per planning period). There is no pegging between batches and customer or net demands. If you want to use batch level shelf life and pegging, use the shelf life visibility feature
- Cannot run optimizer in the Shelf-life heuristic enabled planning area
New Algorithm Type for Shelf-Life Heuristic

Manufacturing Plant

- No On-Hand Stock

Distribution Center

- Batch 1 – 50 EA
  - Remaining Shelf Life: 12 months
- Batch 2 – 100 EA
  - Remaining Shelf Life: 4 months

Customer 1

- Required Shelf Life – 9 mths
- Demand – 100 EA
- Constrained Demand (11 mths) – 50 EA

Customer 2

- Required Shelf Life – 6 mths
- Demand – 100 EA

This is the current state of planning and may be changed by SAP at any time.
New Algorithm Type for Shelf-Life Heuristic

Manufacturing Plant

Production with Remaining Shelf-Life: 20 mths

- Dependent Demand (11 mths): 50
- Dependent Demand (8 mths): 100
- Net Demand (11 mths): 50
- Net Demand (8 mths): 100

Distribution Center

- Batch1 – 50 EA
  - Remaining Shelf Life: 12 months

- Batch2 – 100 EA
  - Remaining Shelf Life: 4 months
  - Wastage (not consumed by any demand in the planning horizon)

- Dependent Demand (10 mths): 50
- Dependent Demand (7 mths): 100
- Net Demand (10 mths): 50
- Net Demand (7 mths): 100

Customer 1

- Required Shelf Life – 9 mths
- Demand – 100 EA
- Constrained Demand (11 mths) – 50 EA

Customer 2

- Required Shelf Life – 6 mths
- Demand – 100 EA

This is the current state of planning and may be changed by SAP at any time.
**New Algorithm Type for Shelf-Life Heuristic**

**Manufacturing Plant**
- Production with Remaining Shelf-Life: 20 mths
  - Dependent Demand (11 mths): 50
  - Dependent Demand (8 mths): 100
  - Net Demand (11 mths): 50
  - Net Demand (8 mths): 100
  - Production Receipt (20): 150
  - Transport Supply (20): 150

**Distribution Center**
- Batch1 – 50 EA
  - Remaining Shelf Life: 12 months
  - Batch2 – 100 EA
  - Remaining Shelf Life: 4 months
  - **Wastage** (not consumed by any demand in the planning horizon)

**Customer 1**
- Required Shelf Life – 9 mths
- Demand – 100 EA
- Constrained Demand (11 mths) – 50 EA
- Constrained Demand (18) – 50 EA

**Customer 2**
- Required Shelf Life – 6 mths
- Demand – 100 EA
- Constrained Demand (18) – 100 EA

- Dependent Demand (10 mths): 50
- Dependent Demand (7 mths): 100
- Net Demand (10 mths): 50
- Net Demand (7 mths): 100
- Production Receipt (20): 150
- Transport Receipt (20): 150

---

**This is the current state of planning and may be changed by SAP at any time.**
Demo Shelf-Life Heuristic
Supply Chain Network for ACME Company

Product1

Customer 101

Lead Time=1

Plant 101

Supplier 101

Lead Time=1

Plant 102

Customer 102

Product1

DC 101

DC 102

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### Shelf-Life Heuristic Example

#### CUSTOMERPRODUCT

<table>
<thead>
<tr>
<th>Customer ID</th>
<th>Product ID</th>
<th>Minimum shelf life value for consensus demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>PRODUCT1</td>
<td>20</td>
</tr>
<tr>
<td>102</td>
<td>PRODUCT1</td>
<td>20</td>
</tr>
</tbody>
</table>

#### SOURCEPRODUCTION

<table>
<thead>
<tr>
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<th>Product ID</th>
<th>Source ID</th>
<th>Remaining Shelf Life</th>
<th>Source Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLANT101</td>
<td>PRODUCT1</td>
<td>PLANT101_PRODUCT1</td>
<td>100</td>
<td>P</td>
</tr>
<tr>
<td>PLANT102</td>
<td>PRODUCT1</td>
<td>PLANT102_PRODUCT1</td>
<td>100</td>
<td>P</td>
</tr>
<tr>
<td>PLANT101</td>
<td>SUBASSEMBLY</td>
<td>PLANT101_SUBASSEMBLY</td>
<td>0</td>
<td>P</td>
</tr>
<tr>
<td>PLANT102</td>
<td>SUBASSEMBLY</td>
<td>PLANT102_SUBASSEMBLY</td>
<td>0</td>
<td>P</td>
</tr>
</tbody>
</table>

#### PRODUCTIONSOURCEITM

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Source ID</th>
<th>Minimum shelf life value for component</th>
<th>Source Item ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPONENT1</td>
<td>PLANT101_PRODUCT1</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>COMPONENT1</td>
<td>PLANT102_PRODUCT1</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>SUBASSEMBLY</td>
<td>PLANT101_PRODUCT1</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>SUBASSEMBLY</td>
<td>PLANT102_PRODUCT1</td>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>

This is the current state of planning and may be changed by SAP at any time.
Non-Stocking Node for Optimizer

- Enables certain location-Products as non-inventory holding nodes in the network.
- INVHOLDINGPOLICY integer attribute on LOCATIONPRODUCT master data

- There is no inventory held at the PLANT101 and PLANT102. It is transported in the same period to downstream distribution centers.
Changed Definition of Handling Resources

• Until 1805, the RESOURCETYPE attribute in the RESOURCELOCATION master data table needed to be 0 or NULL for both handling resources and production resources.

• As of 1811, the RESOURCETYPE attribute needs to be set to 2 instead of 0 or NULL for handling resources.

• As of 1811, you will receive a warning if a handling resource still has the value 0 or NULL. As of 1902, the planning algorithm will return an error in this case.

• Be sure to change the RESOURCETYPE for handling resources from 0 or NULL to 2 in the 1811 release.
Configuration

Katalin Ocsai
Key Figure Calculations App

With this app, you can have an overview of and gain an understanding of the complete calculation graph of one or more key figures.

- Display the calculation graph of one or more key figures in a planning area (active or inactive).
- Display additional information for a node.
- From the node info, navigate to the corresponding object in the Planning Areas app.

This is the current state of planning and may be changed by SAP at any time.
Integration
Reinhard Sumeier
SAP IBP Integration Overview

System Landscape

IBP Applications

- Applications
  - SC Control Tower
  - S&D
  - Collaboration
  - Demand
  - Response & Supply

- Configuration

HANA Database

- Calculations and Algorithms
- Data Model

Cloud NW

- REST APIs

- OData Service

MS Excel

- IBP Add-In

Web User Interface

- IBP Fiori

SAP Cloud Platform

- SAP CoPilot
- SAP CP-IAS
- SAP JAM
- SAP Ariba
- S/4 Hana or ECC
- Other (BW, ...)

REST APIs

- SAP SDI DP Agent

Data Integration

- for SDI
- for CPI-DS

Job Scheduling

- IAM

Data Integration

- for CPI-DS

Data Integration

- for SDI

SAP CPI-DS

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Integration of SAP ECC, S/4HANA with IBP Using Add-On

SAP Integrated Business Planning

- Time Series Based Planning Area
- Order Based Planning Area

SDI

- Open API

SAP Cloud Platform Integration for data services

Inbound Staging Tables

New Templates

SAP S/4HANA on premise, SAP ECC 6.0 as off EHP 4

Application

IBP Integration AddOn

- SAP Data Provisioning Agent
- SAP Data Services Agent
- Extractors

Replication Tables

This is the current state of planning and may be changed by SAP at any time.
<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
<th>C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERP_IBP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBP_KF_Actuals</td>
<td></td>
<td>IBP_KF_Actuals - Extract actuals quantity and revenue from SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_KF_InitialInventory</td>
<td></td>
<td>IBP_KF_InitialInventory - Extract Initial Inventory from SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_KF_OpenOrders_ERP</td>
<td></td>
<td>IBP_KF_OpenOrders - Extract Open Orders key figure data from SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_KF_OpenOrders_S4</td>
<td></td>
<td>IBP_KF_OpenOrders - Extract Open Orders key figure data from SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_KF_PlanedPrice</td>
<td></td>
<td>IBP_KF_PlanedPrice - Extract the sales history from SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_KF_SafetyStock</td>
<td></td>
<td>IBP_KF_SafetyStock - Extract Safety Stock from SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_MD_ERP_AddOn_to_UPA_GR</td>
<td></td>
<td>IBP_MD_ERP_AddOn_to_UPA - Transfer master data from ERP to SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_MD_ID_Maps_to_Files</td>
<td></td>
<td>Read ID mappings between ERP IDs and IBP IDs from S/4 ERP to SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_MD_S4_ERP_AddOn</td>
<td></td>
<td>IBP_MD_S4_ERP_AddOn - Transfer master data from IBP to SAP IBP</td>
<td>Re</td>
</tr>
<tr>
<td>ERP_IBP_Custom_ABAP</td>
<td></td>
<td>ERP to IBP using Custom ABAP Transforms</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_MD_PLANNING_AREA_ABAP</td>
<td></td>
<td>Planning Area Data from ERP to IBP using Custom ABAP transforms</td>
<td>Re</td>
</tr>
<tr>
<td>IBP_MD_PLANNING_AREA_ABAP_copy</td>
<td></td>
<td>Planning Area Data from ERP to IBP using Custom ABAP transforms</td>
<td>Re</td>
</tr>
<tr>
<td>ERP_IBP_MASTER_DATA</td>
<td></td>
<td></td>
<td>Re</td>
</tr>
</tbody>
</table>
### Target Objects and Data Flows

To create a new data flow, select a target object from the list below or add a target object.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOPMD_STAG_IBLOCATION</td>
<td>Extract Location Master Data from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP Unif...</td>
</tr>
<tr>
<td>IBP_MD_Location_AddOn</td>
<td>Extract Location Master Data from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP Unif...</td>
</tr>
<tr>
<td>SOPMD_STAG_IBPRODUCT</td>
<td>Extract Product Master Data incl. Texts from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP...</td>
</tr>
<tr>
<td>IBP_MD_Product_w_Text_AddOn</td>
<td>Extract Product Master Data incl. Texts from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP...</td>
</tr>
<tr>
<td>SOPMD_STAG_IBRESOURCE</td>
<td>Extract Resource Master Data including Texts from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP...</td>
</tr>
<tr>
<td>IBP_MD_Resource_w_Text_AddOn</td>
<td>Extract Resource Master Data including Texts from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP...</td>
</tr>
<tr>
<td>SOPMD_STAG_IBLOCATIONPRODUCT</td>
<td>Extract Location Product Master Data from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP Unif...</td>
</tr>
<tr>
<td>IBP_MD_LocationProduct_AddOn</td>
<td>Extract Location Product Master Data from extractor in IBP Add-On for S/4HANA or ECC ans transfer to IBP Unif...</td>
</tr>
<tr>
<td>SOPMD_STAG_IBRESOURCENLOCATION</td>
<td>Extract Resource Location Master Data from extractor in IBP Add-On for S/4HANA or ECC ans and transfer to IBP Unif...</td>
</tr>
<tr>
<td>IBP_MD_ResourceLocation_AddOn</td>
<td>Extract Resource Location Master Data from extractor in IBP Add-On for S/4HANA or ECC ans and transfer to IBP Unif...</td>
</tr>
</tbody>
</table>

This is the current state of planning and may be changed by SAP at any time.
To adapt the dataflow to your IBP system, mark it on the Data Flows screen and choose action Copy to new target. Then choose or add the target staging table with name SOPMD_STAG__LOCATION. (... is the three letter prefix of the IBP master data type.) Pitfall: Do not choose table SOPMD__LOCATION!
**Transform Type:** Query  
**Transform Name:** Query_Extract

### Input

<table>
<thead>
<tr>
<th>Name</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/iba/IBP/LOCATION_ATTR</td>
<td></td>
<td>IBP Location Alter</td>
</tr>
<tr>
<td>LOCID</td>
<td>varchar (20)</td>
<td>Location ID</td>
</tr>
<tr>
<td>LOCTYPE</td>
<td>varchar (10)</td>
<td>Location Type</td>
</tr>
<tr>
<td>LOCDESCR</td>
<td>varchar (60)</td>
<td>Location Name</td>
</tr>
<tr>
<td>LOCREGION</td>
<td>varchar (20)</td>
<td>Region of IBP Location</td>
</tr>
<tr>
<td>LOCCOUNTRY</td>
<td>varchar (3)</td>
<td>Country Key of IBP Location</td>
</tr>
<tr>
<td>LOCVALID</td>
<td>varchar (1)</td>
<td>IBP Location is valid flag</td>
</tr>
<tr>
<td>GEOLOCATION</td>
<td></td>
<td>Map by dragging columns for IBP Location</td>
</tr>
</tbody>
</table>

### Output

<table>
<thead>
<tr>
<th>Name</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCID</td>
<td>varchar (20)</td>
<td>Location ID</td>
</tr>
<tr>
<td>GEOLOCATION</td>
<td>decimal (15)</td>
<td>Geo Location Latitude</td>
</tr>
<tr>
<td>GEOLONGITUDE</td>
<td>decimal (15)</td>
<td>Geolocation Longitude</td>
</tr>
<tr>
<td>LOCDESCR</td>
<td>varchar (60)</td>
<td>Location Description</td>
</tr>
<tr>
<td>LOCTYPE</td>
<td>varchar (10)</td>
<td>Location Type</td>
</tr>
<tr>
<td>LOCVALID</td>
<td>varchar (1)</td>
<td>Location is valid flag</td>
</tr>
</tbody>
</table>

This is the current state of planning and may be changed by SAP at any time.
METHOD /ibp/if_ets_selection-modify_data_package.

FIELD-SYMBOLS: <ls_loc> TYPE /ibp/s_ets_location_attr_all.

IF iv_selection_object_id = '/IBP/LOCATION_ATTR'.
  LOOP AT ct_itab ASSIGNING <ls_loc>.
    IF <ls_loc>-loctype = 'P'.
      <ls_loc>-loctype = 'PLANT'.
    ELSEIF <ls_loc>-loctype = 'C'.
      <ls_loc>-loctype = 'CUSTOMER'.
    ELSEIF <ls_loc>-loctype = 'V'.
      <ls_loc>-loctype = 'SUPPLIER'.
    ENDIF.
  ENDLOOP.
ELSEIF iv_selection_object_id = '/IBP/LOCATIONPRODUCT_ATTR'.
  DELETE ct_itab WHERE ('PLANNER ' '123').
ENDIF.

ENDMETHOD.
Further Enhancements in Foundation

Anna Linden
There are plans to **discontinue the group operator as of 1902**. As a replacement, you can use a job chain to run the operators that were formerly included in a group operator. We recommend that you start converting the group operators you’re using into jobs chains before the upgrade to 1902.

In this release, 1811, the planned discontinuation of the group operator in 1902 is introduced by the following changes:

- As of this release, it is no longer possible to create new group operators.
- Existing group operators cannot be assigned to a planning area other than the ones it is assigned to.

In 1811, you can still use the group operators that you have created up to this release. However, we recommend that you start converting the group operators you’re using into jobs chains before the upgrade to 1902.

The planned discontinuation of the group operator also includes the **Group Operator** application job template, which will be discontinued as of 1902.

**Follow up from last webinars question: Job Chains can, since IBP 1808, also be scheduled – also from external tools (e.g. Tidal)**
Since release 1808, the system checks the key figures to identify calculations where the output planning level of the calculation includes an attribute, which is not a calculated attribute, and cannot be sourced from any of the input planning levels either. As of 1905, such invalid calculation definitions will result in an error, instead of a warning.

This is a requirement for features planned for 1905.

Before the upgrade to 1905, perform a consistency check on your planning areas, and correct the invalid calculations if there are any.
Co Pilot – new features

Directly from the IBP WebUI, create new

- Create a support incident
- request (feature request) to https://influence.sap.com/ibp
System Monitoring – Time Series Statistics

This card allows you to use visual filters to track the growth of time series data in the IBP system.

This is the current state of planning and may be changed by SAP at any time.
Manage Navigation to Other Systems

You use the new **Manage Navigation to Other Systems** app to configure navigation from IBP to other SAP on-premise system transactions.

This is the current state of planning and may be changed by SAP at any time.
Simulation Run for Purge Key Figure Data job

To give administrators a better idea of how many records will be purged when they run the Purge Key Figure Data application job, they can now do a simulation run of the job. To take a closer look at which data will be purged, they can also choose to show a preview.
Mandatory Filter in COPY and the DISAGg Operator

To help prevent the copy or disaggregation operator from being run without a planning filter unintentionally, administrators can now make the use of a planning filter mandatory.

Also shown in IBP Excel Add-In:
Documentation Updates
Anna Linden
Documentation: http://help.sap.com/ibp

- What's New
- Sneak Preview new Release
- Application Help
- SAP Best Practices
- Model Configuration Guide
- Migration Guide
- Data Integration Scenarios
- SAP Cloud Platform Integration
- JAM Integration Guide
- Security Information
- Roadmap
- Support Portal
- SAP Community
- Customer Influence
- …
Roadmap

https://help.sap.com/ibp → Roadmap

Strategic Roadmap Webinar Recording (June 27, 2018): http://sapnaevent.adobeconnect.com/pziy47uccq8v/
SAP Best Practices for SAP IBP – 1811 Update
Ina Glaes
New scope and changes in V13.1811

- Technical upgrade to SAP Integrated Business Planning 1811
- Migration of the best practices content that was based on sample planning area SAP74 to planning area SAP7. Reason: In future releases, sample planning area SAP74 will not be updated with all the new functionality for order-based planning.
- In several scope items, you can view and track the alerts via the alert overview in the related dashboards.
- In the three response management processes, an additional prioritization rule (Customer Priority with Fair Share) provides the option to consider some customers equally important during planning.
- The demand planning process has been enhanced with an example of how to add planning notes to record additional business information from different participants in the planning process.

SAP IBP for demand – Statistical Forecast Error Measures Alerts

SAP IBP for demand – Planning Notes
Unified Planning
Sample planning areas used

- All time-series based planning processes run in sample planning area SAPIBP1 (unified planning area)
- Order-based planning processes run in sample planning area SAP7 (response and supply)
- All application content like planning views, dashboards, alerts, and sample data are tailored to the respective sample planning area
- Sample data for SAPIBP1 is loaded by the Data Integration app
- Sample data for SAP7 is loaded by the SDI agent via the ABAP Adapter and Data Integration app, please refer to the corresponding configuration guides
- Time series data is copied between the two planning areas by the disaggregation operator
SAP Best Practices for SAP Integrated Business Planning

Explanatory diagram

SAP Best Practices for SAP Integrated Business Planning

Planning Views | Alerts | Dashboards | Process Management | SAP Jam Integration | Sample Data | Test Scripts | Configuration Guides

SAPIBP1, SAP7 Sample planning areas

Attributes | Master Data Types | Time Profile | Planning Levels | Key Figures | Versions | Planning Operators | Forecast Model | Forecast Error Profile | Segmentation Profile delivered in SAP tables

IBP for sales and operations | IBP for response and supply | IBP for demand | IBP for inventory | Supply Chain Control Tower

available at http://rapid.sap.com/bp/rds_ibp

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SAP Best Practices for SAP Integrated Business Planning

Where to get it

http://help.sap.com/ibp
http://rapid.sap.com/bp/rds_ibp

Download the following assets:

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


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Customer Influence Program Update

John Lopus
Customer Influence - Our Tool for Product Enhancement Ideas Powered by SAP Innovation Management

Global co-operation of customers in the projects via the collaboration site

Customer Influence:

- **Search** and **Vote** for improvement requests
- **Submit** your own improvement request
- Comment on improvement requests
- Follow improvement requests (get notified)
- Choose your areas of interest to get notification on any projects that might interest you in the future.
- Collaboration language is English

Contribute and Influence

http://influence.sap.com/ibp
How it works for customers

Integrated Business Planning continuous influence session is now ALAYS open for your improvement request submission!

→ Logon to https://influence.sap.com/IBP

Follow the continuous session you want to influence
Submit your improvement request
Vote on other good ideas

Votes(s)
Once idea reaches voting threshold, it is ready for review

Product development reviews ideas
Product team informs about results of review

Suitable improvement requests are built into an upcoming release

Specific for IBP:

minimum of 5 company votes is decided
review cycle will be twice per year

▪ Next review in November 2018
2018 Fall Review

• About **400** Improvement Requests submitted to date

• Next review phase is in progress
  • Feedback on qualified improvement requests planned by early December
  • Check the portal for further updates: [https://influence.sap.com/sap/ino/#/campaign/21](https://influence.sap.com/sap/ino/#/campaign/21)

• Future voting threshold likely to increase due to increased number of customers

• System is continuously open for your ideas and to vote to support ideas from other customers
Thank you.

Central Contact information:
IBP Customer Group Contact: david.kahn@sap.com
IBP Customer Office: john.lopus@sap.com

Today’s Presenters from Product Management:
• alexis.lozada@sap.com
• andrew.boyle@sap.com
• anna.linden@sap.com
• claus.bosch@sap.com
• ina.glaes@sap.com
• katalin.ocsai@sap.com
• kenton.harman@sap.com
• poorya.farahani@sap.com
• pramod.mane@sap.com
• raghav.jandhyala@sap.com
• reinhard.sudmeier@sap.com