What’s New in SAP Integrated Business Planning
1902 (Planned)

SAP Product & Solution Management
January 31, 2019
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Sneak Preview

Since Q4/2018, the what’s new webinar as well as the application help are planned to be available before the actual release data.

**Release of SAP Integrated Business Planning 1902 currently planned for February 5, 2019.**

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.”

[help.sap.com/ibp](http://help.sap.com/ibp)

What’s New

**What’s New in SAP Integrated Business Planning 1811?**

Detailed overview of new and changed features, including links to more information in the application help and guides.

**Webinar**

Find the recording and the slides for the What’s New Webinar for 1811 on October 30, 2018, plus more IBP events

**What’s New for Previous Releases?**

Get an overview of new features provided with earlier releases.

**Sneak Preview**

Explore what is planned for release 1902 that is scheduled for February 5, 2019.

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

• Solution Updates - SAP Integrated Business Planning 1902 (Planned)
• SAP Best Practices for SAP IBP – 1902 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  Business Network Collaboration with SAP Ariba  Network Visualisation  Root cause analysis

Integrated Sales, Marketing & Financial Planning  Demand-driven MRP

Segmentation

Sales & Operations  Inventory  Response & Supply

Statistical Forecasting  Multi-stage Inventory Optimization  Forecast Error Calculation

Product Lifecycle Planning  Finite Supply Planning  Deployment

Demand Sensing  Response Planning

Demand

Supply Chain Control Tower

Integration | Extensibility | Cloud | Machine Learning

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

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This is the current state of planning and may be changed by SAP at any time.
IBP Excel Add-In 1902.2.0
Anna Linden
Most used list for attributes and key figures

With the IBP Excel Add-In 1902.2.0, the user will see a list of his most used attributes and key figures in multiple areas, for example on the “Edit Planning View” window in multiple tabs or as part of the “Quick Edit Planning View”, e.g. when adding a planning level.

This “short list” helps to quickly see the relevant attributes and key figures from a user perspective and select those easily from a long list of key figures and attributes.
The user as well as the administrator can define in the settings view how many attributes or key figures they want to display in the “most used lists”.

The most used attributes and key figures are tracked per connection (combination of system and planning area).

The default value is 5.

Setting the value to zero turns this feature off.

The “most used” lists are resetted when resetting the whole user settings menu when clicking on the “Reset to Default” button.
Copy Planning Notes between Versions

The following selections for the planning notes are possible on the key figure tab:

- **Do not copy planning notes (default):** No planning notes will be copied to the target version.

- **Merge with existing planning notes:** New planning notes will be copied and merged with existing ones in the target version.

- **Replace existing planning notes:** New planning notes will be copied and existing ones will be removed from the target version.

- **Delete existing planning notes:** Existing planning notes will be deleted in target version.

The drop-down is greyed out in case only key figures are selected that are not planning note enabled in configuration.
Scenario definition for the Copy & Disaggregate Key Figure Operator

• When running the Copy and Disaggregate Key Figure operator within a single planning area, you can now select a combination of a scenario and version.

• The operator then considers the selected scenario and version when reading source key figure values and writing target key figure values.

• The baseline scenario is used as the default.
Time period selection for the Copy Operator and the Copy & Disaggregate Key Figure Operator

- When scheduling the **Copy Operator** or the **Copy and Disaggregate Key Figure Operator** job in the IBP Excel add-in, you can now change the period selection.

- Changing the period selection for the **Copy Operator** in the IBP Excel add-in is only possible if the target key figures have the same time period levels. The user is being informed in case the period selection is not possible:
**SAP Notes**

**Best Practices and Performance Considerations**
SAP Note 2686746: [https://launchpad.support.sap.com/#/notes/2686746](https://launchpad.support.sap.com/#/notes/2686746)
New 90 page slide deck with key information and recommendations around performance and a how-to guide to analyze performance traces - for consultants and IT.

**IBP Excel Add-In: Feature Deep Dive and End User Guide** (to be released soon):
SAP Note 2740969: [https://launchpad.support.sap.com/#/notes/2740969](https://launchpad.support.sap.com/#/notes/2740969)
New 280 page slide deck with detailed overview and explanation of the capabilities of the IBP Excel Add-In – for end users, consultants, and IT. Can be used also for training purposes.

**IBP Planning View Templates for the Excel Add-In**
SAP Note 1790530: [https://launchpad.support.sap.com/#/notes/1790530](https://launchpad.support.sap.com/#/notes/1790530)
Recent update of the VBA code containing performance and stability improvements.
Stepwise update and subsequent phase-out of older versions of the underlying protocols and authenticating standards for SAP Integrated Business Planning. → This also affects the IBP Excel add-in.

- End of May 2019 (IBP release independent!), the 1711.2.0 version of the IBP Excel add-in will be the lowest possible version that users can use to log on to IBP.

- With IBP 1911, we will raise this lowest version allowed once again - to the 1808.2.0 version of the IBP Excel add-in.

It is always recommended to upgrade to the latest version of the IBP Excel add-in.

All IBP customers will receive detailed information and action items in a separate email in February 2019.
Stepwise raise of the minimum IBP Excel Add-In Version: Where to check if you need to take action

1. Please use the **System Monitoring app** to check the IBP Excel add-in versions your users are using to log on to the IBP system, and whether you need to take action.
   
   Documentation:
   

2. You can also inform your users upon logon that their version is too old. You decide with the Global Configuration Parameter PLAN_VIEW → MINIMUM_ADDIN_VERSION which version is set as minimum required. They will then receive a warning when logging on to IBP in case their add-in version does not meet the requirements:

   **System Monitoring app on WebUI:**

   Click on the header of:

   On the bottom - check the logins over the course of the past weeks and the used Excel Add-In versions:

   Documentation:
   
Web-based Planning
Ralf Heimburger
Web-Based Planning
Fiori app to analyze and change planning data in IBP

Adjust Data via IBP Excel Add-In

Adjust Data via Web-based Planning App

Sales Representative at customer location using a tablet

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# Demo Web-Based Planning

## My Demand View

### Description: My Demand View

**Version:** Base Version 1

**Shared with:** [Your LinkedIn link]

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## IBP Planning UIs

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<thead>
<tr>
<th>IBP Excel Add-In</th>
<th>Web-Based Planning UI</th>
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<tbody>
<tr>
<td><strong>Key users</strong></td>
<td><strong>In current release, supporting occasional users e.g. Key Account Managers / Sales Reps at customer sites with basic planning tasks.</strong></td>
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<tr>
<td>- Planner, Key-Account Manager, Marketing &amp; Sales, Management</td>
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<tr>
<td>- Supporting occasional, advanced, and power planners with complex business processes being covered</td>
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<tr>
<th><strong>Business processes</strong></th>
<th><strong>Complex planning processes supported by Microsoft Excel native features, such as:</strong></th>
<th><strong>Basic planning process in scope:</strong></th>
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<tbody>
<tr>
<td></td>
<td>- Very flexible extensions with VBA, macros, and custom formatting</td>
<td>- Today: Create planning view, analyze data, change data, save</td>
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<td>- Excel formulas / local key figures</td>
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<td>- Offline Usage of Planning View Workbooks (share with external users)</td>
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<th><strong>Prerequisites</strong></th>
<th><strong>Browser-based app started from the IBP Web-UI</strong></th>
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<tr>
<td>- Add-in for Microsoft Excel requires Windows and Office installed on user’s computer</td>
<td>- Tablets and MacBooks supported.</td>
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<td>- Tablets (except for MSFT Surface) not supported.</td>
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<tr>
<td>- MacBooks only with Virtual Machine (Windows and Office) installed.</td>
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Analytics and Exception Management
Kenton Harman
Monitor Custom Alerts app - Redesign

- The Monitor Custom Alerts app has been redesigned to improve usability and enable more features.

- When you start the app, the alerts are displayed in a worklist.

- It’s now easy to filter on alerts and save the filter as variants.

- You can download the list of alerts to Excel sheet or to a CSV file.

- You can also personalize the table columns.
Alert Details

- The layout of the alert monitor is flexible. It can be split into 1/3-2/3 or 2/3-1/3 or make the list occupy the full screen or the details in full screen.
- The detail screen shows the selected alert from the list.

Flexible layout with 1/3-2/3
Flexible layout with 2/3-1/3
Alert Details

- You can adapt the columns you want to display in the table. We recommend to always display the first key figure, its value and the refresh time.
Support Scenarios in Custom Alerts

Alerts can be defined based on a version or a version/scenario
Support “is not null” operator

- The rules can now specify whether a certain key figure is **not null** and consider only those values
- Not null is useful when used in combination with the Machine Learning rules
Machine learning – manual adjustment of algorithm parameters

- There is an option whether you want to expose the parameters to the user or you want the system to set them up with default values.

- If you choose the manual option, the DBSCAN algorithm parameters are exposed and the user can overwrite the default values such as Attribute Clustering Method, Scan Radius, Distance method.
ML parameters – Mandatory parameters

Clustering method

- **Hard clustering**
  When this option is selected, the data is pre-clustered based on the attributes field and the algorithm is called several times for each cluster. The result is the aggregation of the results of all calls. This is the default behavior when Automatic option is selected. Since this option required to call a distinct DBSCAN algorithm for each cluster defined in the attribute field, this mean it could be a lot slower to execute compare to the soft clustering.

- **Soft clustering**
  The DBSCAN algorithm determines automatically the clustering of the data based on the attributes provided in the Attributes field. When you select this option, the weighting of the clustering is determined by the field Category Weight. With soft clustering, all the data is sent to the DBSCAN algorithm in a single batch and the clustering is performed while the algorithm is running, this results in a lot faster execution than the hard clustering.
ML parameters – Mandatory parameters

DBSCAN requires two parameters: scan radius (eps) and the minimum number of points (minPts) required to form a cluster. The algorithm starts with an arbitrary starting point that has not been visited. This point's eps-neighborhood is retrieved, and if the number of points it contains is equal to or greater than minPts, a cluster is started. Otherwise, the point is labeled as noise.

• Minimum points
  If the data provided to the DBSCAN is 4,4,4,10. If the minimum number of points for a cluster is set to 5, the outliers will be 4,4,4,10. If the minimum number of points for a cluster is set to 2, the outlier will be 10 because there are 3 values with value 4 so this is considered as a cluster.

• Scan radius
  This is the distance between each point to consider they are part of the same cluster. For instance, if we have the value 3 and 5. If the Scan Radius is set to 1, both values 3 and 5 will be determined as outliers as the distance between the values is 2. If the Scan Radius is set to 3, the values 3 and 5 will be considered close enough to be part of the same cluster and no outliers will be detected.
ML parameters – Optional parameters

- **Thread number**
  Running multiple threads at the same time can improve performance but add load to the server during the execution

- **Category weight**
  This option is used when soft clustering is selected. This determines the importance of the clustering determined in the field attributes. The DBSCAN clustering is performed at all level and outliers is determined and aggregated at each level.

- **Distance method**
  - Specifies the method to compute the distance between two points
  - Options are: Manhattan, Euclidean, Minkowski, Chebyskv, Standardized Euclidean, and Cosine

- **Minkowski Power**
  Used with distance method Minkowski
Alert Overview enhancements

- When you click on an alert overview object from the Analytics list, the alert overview is shown in a display mode.
Alert Overview enhancements

- From the alert overview graph you can select a portion or multiple portions on the graph and visualize only the selected alerts in the Monitor Custom Alerts app.
- Note: This is planned to be available from the dashboard with the IBP1905 release.
Process Management Enhancements

Mass Deletion of Processes - New Application Job Template to Purge Processes
Purges all processes that are older than the given number of days for all or specified processes templates.

Create Process Steps without Tasks
- E.g. Process steps that represent a milestone within the process, like the process step for the management review that concludes a process.
- E.g. Process steps that have application jobs assigned and that are configured to run automatically.
Process Management Enhancements

Gantt Chart for Viewing Multiple Recurring Processes at a Glance

- Gives a better overview of when the occurrences are about to start and end.
- Shows overlapping steps so you can adapt the process steps accordingly.
- Allows editing of future processes dates and descriptions
Demand Planning Enhancements with IBP 1902

• Enhancements of Time Series Analysis
• Enhancements of Statistical Forecasting
• Enhancements of Product Lifecycle Management
• Enhancements of Realignment
• Enhancements of Forecast Error Calculation
Short recap of Time Series Analysis (available since IBP 1811):

• Time Series Analysis identifies patterns like trend, seasonal, intermittently in each individual time series and stores this information for later reuse

New with 1902: In the Manage Forecast Automation Profiles app select a profile that was already executed and click the Show Analysis Results button to navigate to the results’ screen.
Time Series Analysis: Result Screen

In the result screen you can look at the outcome of the various statistical tests executed during time series analysis. You can filter the planning objects using the various filtering options.
Time Series Analysis: Result in the Assign Forecast Models app

### Assign Forecast Models - 103 - SANTIAGO - IC100 - LAGNUMO CLASSICO

**Assigned Forecast Model:** ZB_avg_36M

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<th>Assignment History</th>
<th>Results of Time Series Analysis</th>
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**Forecast Automation Profile:**
- **1542014822228**

- **Last Run:** 2018.11.12 - 10.28
- **Input Key Figure:** Sales History
- **Time Series Properties:** Intermittent with seasonality and trend

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<th>Seasonality:</th>
<th>White Noise:</th>
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- **Length of Seasonal Cycle:** 12 Weeks
- **Trend:** Downward
- **Trend Slope:** -0.0164

- **Intermittency:** Yes
- **Average Demand Interval:** 1.9688
- **Lumpiness:** -
- **Squared Coefficient of Variation:** -
Demand Planning Enhancements with IBP 1902

- Enhancements of Time Series Analysis
- **Enhancements of Statistical Forecasting**
- Enhancements of Product Lifecycle Management
- Enhancements of Realignment
- Enhancements of Forecast Error Calculation
**New Forecasting Algorithm: Copy Past Periods**

Naïve forecasting algorithm: copy the historical sales data to the future periods.

Useful when future sales are expected to be similar to the past.
Statistical Forecasting Job within user defined Scenario

Sample use cases:

- Different causal factors: simulating if the marketing budget would be increased/decreased what would be the impact on forecasted sales.

- Different sales history: checking how removing or not certain outliers changes the forecast that is generated.

- Different forecasting approaches (different forecast models / algorithms / parameter values) are tried out on the same input data.
Demand Planning Enhancements with IBP 1902

- Enhancements of Time Series Analysis
- Enhancements of Statistical Forecasting
- Enhancements of Product Lifecycle Management
- Enhancements of Realignment
- Enhancements of Forecast Error Calculation
Create own flexible phase-in/out curves:

- Before IBP 1902: Generated curves based on functions like linear, square root, quadratic, etc.
- New with IBP 1902:
  - Customer specific curves by defining “single values” for each period
  - Values can be entered manually or via CSV upload in the app
Manage Product Lifecycle Fiori app: Reference Product Hierarchy

Enhanced usability when maintaining reference products when having short product lifecycles:

• Systems looks for reference products of the current reference product (succession chain)

Example: New product = HT_NEW_1

• Planner assigned product “HT_001” as reference product for the new product HT_NEW_1

After clicking on the hierarchy icon…
Manage Product Lifecycle Fiori app: Reference Product Hierarchy

• ... the systems shows existing reference product(s) of HT_001 as well as reference products of such reference products:

  ![Reference Product Hierarchy Diagram]

  Planner can simply mark the checkbox to add the products HT_002 and HT_003 to the reference product hierarchy of the new product HT_NEW_1
Demand Planning Enhancements with IBP 1902

- Enhancements of Time Series Analysis
- Enhancements of Statistical Forecasting
- Enhancements of Product Lifecycle Management
- **Enhancements of Realignment**
- Enhancements of Forecast Error Calculation
Realignment

In modern business, change is the only constant thing:
• New & discontinued customers
• Change of organizational structures
• Change of Product or Sales Hierarchy
• Products are manufactured in new plants
• Opening/closing of distribution centers
• …

With that, changes and “realignment” of existing data is required over time.

Realignment in SAP IBP is supporting this process by adjusting master data, planning objects and key figure values

Most important enhancements of Realignment with SAP IBP 1902:

1. You can now execute realignment runs for specific versions.
2. You can now transport realignment projects between systems by using the *Transport Model Entities* app.
3. You can now use the selection criterion *Any* to easily map multiple source values to one target value in one step.

Additional enhancements were done.
Demand Planning Enhancements with IBP 1902

- Enhancements of Time Series Analysis
- Enhancements of Statistical Forecasting
- Enhancements of Product Lifecycle Management
- Enhancements of Realignment
- **Enhancements of Forecast Error Calculation**
Forecast Error Calculation

With IBP 1902 the Forecast Error Calculation app can use snapshot data which is stored on “LAG” level. With that only one key figure is required to store the snapshots for e.g. Lag 1 and Lag 3. The overall process could look like this:

Step 1: Run statistical forecast job: New Statistical forecast is created

Step 2: Create 1M and 3M Lag snapshot by running Lag-Based Snapshot operator. Snapshots for all required lags are stored in one lag-based key figure

Step 3: Calculate new Statistical Forecast Error + Bias. Result is stored in one lag-based key figure for the error and another key figure for the Bias

=> Number of required key figures is independent of number of relevant lags
Inventory Optimization
Alexis Lozada
Using inventory optimization planning operators with different planning horizons*

- User ability to define planning-horizon parameters (equal to calendar weeks) for inventory-optimization planning operators:
  - Ability to establish planning horizons different than the standard planning area planning horizons.
  - Ability to apply different planning horizons at the planning unit level.

- Supported Planning Operators:
  - Global (multi-stage) inventory optimization.
  - Calculate Target Inventory Components.

- Scalability supported for complex inventory planning processes with different planning horizons.

- Ability to define the periods for which the inventory optimization outputs will be displayed (on the specified planning horizon of the planning operator).

- Feature supported in the Web UI through the SAP Fiori app “Application Jobs” and the Microsoft Excel UI.

- No change to key figure values beyond the defined planning horizons, if user is running planning operators with defined planning horizons after having run planning operators with no horizons.

* Released in 1811 HFC02 and 1808 HFC08.
How to set up planning horizons in inventory optimization operators - 1

**Planning Operator** | **Parameter Name** | **Parameter Value**
--- | --- | ---
Global (multi-stage) inventory optimization | ALGORITHM_TYPE | MULTI STAGE IO
Calculate Target Inventory Components | ALGORITHM_TYPE | IO_DETERMINISTIC
How to set up planning horizons in inventory optimization operators – 2

Assign horizon defined IO planning operator to planning area
Running IO operators with defined planning horizons supported in Web UI via Application Jobs app and Excel UI
Render Fiori Supply Chain Network charts in table format

- View data from a rendered supply chain network chart in a table format.
- Download data from a rendered supply chain network chart into the Microsoft Excel (CSV) file table format.
- Validate master data and key figure data created by a network chart in a table format.
- Select attributes and key figures for the table columns, which include a column indicating whether it's an arc or a node and a column for node type (stocking, nonstocking, vendor, processing, or manufacturing).
- Access “Chart” and “Table” toggle buttons on the chart toolbar, which enable you to switch between charts and tables, as well as an “Export to Excel” button.
Introducing a new time-period filter in the SAP Fiori app “Supply Chain Network Visualization - Time Period Filter”

- New time period filter, called “time periods,” in the app toolbar which replaces the old filters “period type” and “to/from”.
- Selections available through the “time periods” filter:
  - Calendar versus period list.
  - Time period as defined in the "time-profile" planning area configuration, such as day, calendar week, technical week, month, quarter, or year.
  - "From and to" options for selecting time periods.
  - Rolling time periods.
- Ease of use in selecting time periods.
- Simplified user experience through the removal of controls in the app filter bar.
Demand-Driven MRP (DDMRP)
Alexis Lozada
Deleting Scenarios in Fiori DDMRP Buffer Analysis App

• Use the app to delete both existing and created scenarios, which will also be deleted in the Microsoft Excel user interface.

• Manage the volume of created scenarios, using the “Delete Scenario” button.

• Users can only delete her/his own created scenarios. Shared scenarios can only be deleted by scenario creator.
You can now run forecast consumption without supply planning.

This is achieved by creating a new type of forecast consumption profile which is not enabled for supply planning that runs in a planning area not enabled for supply planning.

New Forecast consumption profile type - Not Enabled for S&OP Operator - is available in addition to the previous on ‘Enabled for S&OP Operator’.

Each forecast consumption profile now displays the text Enabled for S&OP Operator: Yes or Enabled for S&OP Operator: No.
Forecast Consumption – Enabled Without Supply Planning

Config Required for Planning Areas Not Enabled for Supply Planning

• Create the FORECASTCONSUMPTIONMODE master data type and include it in the planning area (as previously), and add the FCSTCONSMODE attribute as the key attribute of this master data type.
• Assign the FCSTCONSMODE attribute as a non-key attribute for the master data in Forecast Consumption Mode Assignment.

New Application Job Template: TS-Based Forecast Consumption (Not Enabled for S&OP Operator)
Forecast Consumption – Additional Changes

• New dropdown in Key Figure Configuration for Forecast Consumption with values: Input/Output for TS Forecast Consumption.

• You must now select either Input for TS Forecast Consumption or Output for TS Forecast Consumption (as appropriate) for each key figure used in forecast consumption.

• New activation check to ensure that only a stored key figure can be configured as an input to or an output of time-series-based forecast consumption. If a key figure, which is not a stored key figure, has a value in the Input/Output for TS Forecast Consumption field, the check will return an error.
Lot-Sizing Policy Enhancements: Dynamic Periods of Supply with Safety Stock

- Enables you to define a second coverage time span in which to build up safety stock.
- It combines the advantages of both the static and the dynamic periods of supply lot-sizing procedures in that it minimizes the number of production or transportation events (by planning production and transport receipts only in periods where there's a demand), and it also builds up safety stock in each period.
- Requires new input key figure: Subperiods of Supply with Safety Stock (SUBPERIODSOFSUPPYLESAFETYSTOCK), with a planning level: of product - location.
- The planning algorithms first calculate an increased inventory target for each period, which is the maximum of the inventory target of the period and the sum of the dependent demand within the coverage time span. As a result, net demand is increased so the resulting projected inventories cover the dependent demands within the coverage time span, and also cover the increased inventory target in each period of the coverage time span. The algorithms perform their calculations based on this increased inventory target, not on the Inventory Target input key figure.
- Only supported for time-series-based supply planning heuristics and the supply propagation heuristics.
Lot-Sizing Policy Enhancements: Target Periods of Customer Demand

- This feature enables you to use lot sizing on all supply chain levels considering only direct customer demands i.e. dependent customer demands or independent demands, to build-up safety stocks. Dependent demand caused by another location, via key figure Dependent Location Demand and Dependent Production Demand, is ignored.

- Requires new input key figure: Target Periods of Customer Demand (TARGETPERIODCUSTDEMAND), with a planning level: of product - location. We recommend to use this key figure with the lot-sizing procedure 0 (lot for lot) only.

- The results are comparable to the static periods of supply lot-sizing procedure, with the advantage that no excessive safety stock is created.

- Only supported for time-series-based supply planning and the supply propagation heuristics, but not with the optimizer or the shelf life planning heuristic.
New Check for Supply Planning Key Figures

• New check for supply planning key figures. All key figures marked as input/output for supply planning during key figure configuration of a planning area must comply with the following conditions:
  – They must be supported by the Time-Series Supply Planning/S&OP operator.
  – Their planning level root attributes must be correct and consistent.

• If the supply planning key figures don't conform to the above conditions, when running the S&OP operator, you'll get a warning message in the application log and you'll have to correct your configuration. The S&OP operator will continue to execute and you'll get the same results, except that maintained values of the key figures are ignored and, for output key figures, you won't have access to the values that the S&OP operator has calculated.

• In the 1908 release, this will result in an error instead of a warning message.
Order-based Planning
Claus Bosch, Andrew Boyle, Michael Mack
Planning with Buffer Stock

As of this release, order-based planning offers more options for planning with buffers: In addition to the safety stock, which you could already define in previous releases, you can now define the following stock levels

Supported in OBP Priority based planning heuristic
- Target Stock
  - If safety stock is violated do not only fill up to the safety stock level, but to the max. stock level
- Safety Days of Supply
  - At the end of the bucket the projected stock should cover the demands of the next n days
- Target Days of Supply
  - If safety days of supply is violated do not only fill up to safety days of supply, but to max. days of supply

Supported in OBP Optimizer
- Safety Days of Supply
  - At the end of the bucket the projected stock should cover the demands of the next n days
- Max. Stock & max. Days of Supply
  - Violation cost in case max. level is violated
  - The new application job control parameter Max. Stock Violation Cost Rate serves as a default
Planning with Buffer Stock – When to use what Key Figure?

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Safety Stock</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Target Days'</td>
<td>x</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Target Stock</td>
<td>x</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Max. Days'</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Max. Stock</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>
### Key figures for forecast and sales order fulfillment

The new key figures for forecast and sales order fulfillment allow the user to check which quantity of primary demands in a certain period can be fulfilled in time, only late or not at all.

#### Forecast

<table>
<thead>
<tr>
<th>Key Figure</th>
<th>Period 1</th>
<th>Period 2</th>
<th>Period 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forecast Unconstrained</td>
<td>100</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>Forecast Constrained</td>
<td>50</td>
<td>70</td>
<td>50</td>
</tr>
<tr>
<td>Forecast Constrained (In Time)</td>
<td>50</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Forecast Constrained (Late)</td>
<td>50</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td>Forecast Constrained (Unfulfilled)</td>
<td>0</td>
<td>30</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Sales Orders

<table>
<thead>
<tr>
<th>Key Figure</th>
<th>Period 1</th>
<th>Period 2</th>
<th>Period 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales Order Requested</td>
<td>50</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td>Sales Order Confirmed</td>
<td>40</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Sales Order (Confirmed In Time)</td>
<td>40</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>Sales Order (Confirmed Late)</td>
<td>0</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Sales Order (Unfulfilled)</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Fulfillment information provided by Planning Runs

The new key figures for forecast and sales orders fulfillment are offered as external key figures in the data sources STD_MALO, STD_SFC.

Data source STD_SFC_EXT is not supported with IBP 1902.

Fulfillment information for sales orders confirmation are provided by the Confirmation Run (Confirmation Run as Operator) and Deployment Run (Deployment Run as Operator) as a basis for the new sales order fulfillment key figures.

Fulfillment information for forecast fulfillment are provided by the Constrained Forecast Run (Constrained Forecast Run as Operator, Constrained Forecast Run using Optimizer) as a basis for the new forecast fulfillment key figures.

Confirmation Run (Confirmation Run as Operator) and Deployment Run (Deployment Run as Operator) do not write or delete forecast fulfillment information and do not provide corresponding data for the new forecast fulfillment key figures, same as for constraint forecast today.
L-Code improvements for SAP sample model 7

The L-Code for key figure Stock Projected has been changed to consider also Past (e.g. sales order quantity).

<table>
<thead>
<tr>
<th>SAP7 (SAP Sample Model 7)</th>
<th>Stock Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Projected</td>
<td>STOCKPROJECTED</td>
</tr>
</tbody>
</table>

The L-Code for key figure Days of Supply has been changed to improve faster display of calculation results.

<table>
<thead>
<tr>
<th>SAP7 (SAP Sample Model 7)</th>
<th>Days of Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Days of Supply</td>
<td>DAYSOFSUPPLY</td>
</tr>
</tbody>
</table>

If you want to make use of this improvements please consider to use SAP sample model 7 (IBP1902) as basis.
Multisource Integration Support for Order-based Planning

Supported Use Case

With 1902, multiple integration profiles can be defined within order-based planning. Each integration profile allows for an individual data integration into an own operative order-based planning version. The integration profile itself can be assigned to an individual planning area and to individual external master data types and by this relates the order-based planning version to these entities.

With this, certain integration scenarios can be defined and implemented, for example:

- Integration from a productive ERP system to a productive planning area and, in parallel, a second integration from a test ERP system to a test planning area
- Integration of a ERP system A to a productive planning area PA_A and, in parallel, a second integration of a second ERP system B to a different productive planning area PA_B

Not in scope is in 1902 the integration of multiple sources into the same operative order-based planning version. This is planned for future releases.
Multisource Integration Support for Order-based Planning

Relevant Setup Enhancements

- New Fiori App “Integration Profiles” defines the relation between the external logical system (source) and the IBP internal model entities.

- Remote Source is enhanced with the logical system to define the original source of data.

- External master data types and planning areas using external data sources must be linked to the integration profile from 1902 on. See SAP7 Planning Area as template.

- To make use of a planning area for order-based planning, the planning area must be included in the Settings for Order-based Planning App.
Multisource Integration Support for Order-based Planning

Relevant Visibility Enhancements

- Since multiple integration profiles can be defined, master data integrated is stored in different order-based planning versions. To allow for selection, a version selector is introduced in the master data Fiori applications.

- The version toolbar is now introduced as default in the Fiori apps for transactional order-based planning data.

- With this, also 'Open In' navigation is enabled for all order-based planning versions from 1902 on.

- A user can set up a personal default planning area in which to work. This will then switch the default order-based planning version used in the Fiori applications.
OBP Demo
Integration

Reinhard Sudmeier & Malika Boubguel
Integration of SAP ECC, S/4HANA with IBP Using Add-On
More Extractors for Time Series Based Planning, Improved Field Extensibility

SAP Integrated Business Planning
- Time Series Based Planning Area
- Order Based Planning Area

SDI
- Open API
- SAP Cloud Platform Integration for data services

More Dataflows

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

Application

IBP Integration Add-On
- More Extractors
- Replication Tables
- Field Extensions

SAP Data Provisioning Agent
- SAP Data Services Agent
- Extractors
- Field Extensions

Inbound Staging Tables

Order Based Planning Area

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## Pre-Packaged Content for Periodic Data Transfer of Master Data from Add-On for S/4 HANA On Premise and ERP in 1902

<table>
<thead>
<tr>
<th>Object</th>
<th>Template</th>
<th>Data Flow</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>IBP_MD_ERP_AddOn_to_UPA</td>
<td>MD_PRODUCT_W_TEXT</td>
<td>Extractor /IBP/PRODUCT_TEXT</td>
</tr>
<tr>
<td>Location</td>
<td></td>
<td>MD_LOCATION</td>
<td>Extractor /IBP/LOCATION_ATTR</td>
</tr>
<tr>
<td>Resource</td>
<td></td>
<td>MDRESOURCE_W_TEXT</td>
<td>Extractor /IBP/RESOURCE_TEXT</td>
</tr>
<tr>
<td>Resource Location</td>
<td></td>
<td>MD_RESOURCELOCATION</td>
<td>Extractor /IBP/RESOURCELOCATION_ATTR</td>
</tr>
<tr>
<td>Location Product</td>
<td></td>
<td>MD_LOCATIONPRODUCT</td>
<td>Extractor /IBP/LOCATIONPRODUCT_ATTR</td>
</tr>
<tr>
<td>Planning Unit</td>
<td>IBP_MD_PlanningUnit_AddOn</td>
<td></td>
<td>Hard-Coded Best Practices Content</td>
</tr>
<tr>
<td>Customer</td>
<td>IBP_MD_Customer_AddOn</td>
<td></td>
<td>Extractor /IBP/LOCATION_ATTR</td>
</tr>
<tr>
<td>Production Data Structure Header</td>
<td>IBP_MD_SourceProduction_Addon</td>
<td></td>
<td>Extractor /IBP/SOURCEPRODUCTION_ATTR</td>
</tr>
<tr>
<td>Production Data Structure Item</td>
<td>IBP_MD_ProductionSourceItm_Addon</td>
<td></td>
<td>Extractor /IBP/PRODUCTIONSOURCEITEM_ATTR</td>
</tr>
</tbody>
</table>

**Added in 1902**

**Enhanced in 1902**

**Unchanged in 1902**
Improved Field Extension Concept in the Add-On

Overview

• In 1811 it was possible to define appends for private and public customer fields for extractor structures

• With 1902 we provide customizing includes for private and public customer fields of extractor structures

Advantages:
– Easier to implement
– Clear separation to standard fields by added suffixes (no ZZ* namespace needed for fields)
– Can be reused in other structures if needed in future

• In 1902 we also provide customizing includes for additional customer fields for time series based integration in the source staging tables

Advantages:
– Additional data for time series based integration can be stored
  ▫ within one staging table and
  ▫ within the same logical unit of work as the rest of the staged data
– Automatic move-corrresponding mapping between staging tables and extractor fields
Improved Field Extension Concept in the Add-On
Example: Add field MARA-VPSTA to Extractor /IBP/PRODUCT_TEXT (1/4)

Use case: We want to make the fields MARA-PSTAT (Maintenance status) available in the extractor

We need to do the following steps

• Display structure /IBP/S_ETS_PRODUCT_TEXT_ALL via transaction SE11
• Double-click on include name CI_IBP_ETS_PRODUCT_TEXT_PUB
• Confirm that you want to create the structure
• Fill the field Short Description and a component with name PSTAT and type PSTAT_D
• Save and activate
Improved Field Extension Concept in the Add-On
Example: Add field MARA-VPSTA to Extractor /IBP/PRODUCT_TEXT (2/4)

Now the extractor structure contains a new field called PSTAT_PU. We need to make the field visible to the outside world using transaction RSA6:

- Call transaction RSA6 and expand node SCM-IBP-INT->SCM-IBP-INT-ECC-TS-IO
- Mark entry /IBP/PRODUCT_TEXT and click the Change Data Source button
- Unmark the flag Hide Field and click enter
- Mark flag Selection if you want to allow filtering using field PSTAT_PU
- Save the changes
Improved Field Extension Concept in the Add-On
Example: Add field MARA-VPSTA to Extractor /IBP/PRODUCT_TEXT (3/4)

• Repeat the steps in slide 1/4 with table /IBP/MARA_EXT and customizing include CI_IBP_ETS_MARA_EXT

• If the include is only partly active afterwards please display table /IBP/MARA_EXT via SE11 and go to Utilities->Database Object->Database Utility and click on Activate and adjust database

Afterwards table /IBP/MARA_EXT has an additional field with name PSTAT_TC
Improved Field Extension Concept in the Add-On
Example: Add field MARA-VPSTA to Extractor /IBP/PRODUCT_TEXT (4/4)

• Implement BAdI /IBP/ECC_SAVE_MATERIAL to map field MARA-PSTAT to field /IBP/MARA_EXT-PSTAT_PU

Now the field MARA-PSTAT is available and visible with name PSTAT_PU in the extractor.

In order to use it in SAP Cloud Platform Integration for data services as a source field or for filtering you need to reload the extractor in the corresponding datastore.
Improved Field Extension Concept in the Add-On
Additional Feature: Private Fields

- You can add field PSTAT in customizing include CI_IBP_ETS_PRODUCT_TEXT_PRI instead of or in addition to CI_IBP_ETS_PRODUCT_TEXT_PUB. The field is added with suffix _PR in the private section of the extractor structure and is not visible to the outside world.

- This field will also be filled by move-corresponding from field /IBP/MARA_EXT-PSTAT_TC.

- You can use that field in BAdI /IBP/BADI_ES_ETS_SELECTION to calculate fields that are visible in the extractor.
Release of native oData API

In the prior versions of IBP, the results communicated in the oData call were returned in the JSON format. This required the use of JSON transformation into a columnar format in the external reporting application. With the release of IBP1902, we will have a new native oData API that eliminates the need for the transformation. Additionally, the new API provides following benefits:

- Native integration with SAP Analytics Cloud
- Improved performance
- Eliminates the data volume restrictions of the previous service

To use the new oData based API, change the Communication Arrangement from the service “…/IBP/EXTRACT_SRV” or “…/IBP/EXTRACT_ODATA_SRV”. Please note that both services will be shown in the communication arrangement until the JSON based service is removed in IBP1908.

Note: The existing JSON based API will continue to be supported in the IBP1902 version, but will be removed with the IBP1908 release. SAP recommends that you switch to the new API as soon as possible to take advantage to the improved capabilities.
Example: Integration with SAP Analytics Cloud

SAP Analytics Cloud (SAC) can read and display IBP data using the new oData API.

The write of data from SAC to IBP is planned for a future IBP release.
SAP Analytics Cloud Integration Demo
Changes to Communication Arrangement security

The updated capability allows you to maintain a 1:1 relationship between the communication user and the business user. Previously the communication user could access the data of any user in the user group EXTERNAL_DATA_ACCESS. It is now possible to restrict the communication user access to data in IBP based on the assignment of the business user to the communication arrangement. Individual communication arrangements with separate communication users and business users should be configured in this case.

Steps to configure the communication in IBP1902

Maintain the IBP Global Parameter for the planning areas you would like to expose
- Parameter Group = FLEXQUERY
- Parameter Name = PLANNINGAREA
- Parameter Value = PlanningArea1,PlanningArea2

Maintain the Communication Arrangement with the Corresponding Business User
- In the Additional Properties area, assign the Business User that will be used to read the data in IBP
New Global Configuration app

Edit the settings of the global configuration parameters available in the system.
In key figure configuration, only some combinations of aggregation and disaggregation modes make sense from a business perspective. If you use other combinations and you change data in the IBP Excel add-in on an aggregated level, the results after disaggregation and aggregation may not be identical.

**As of 1905, you will no longer be able to activate a planning area that contains key figures with incorrect combinations of aggregation and disaggregation modes.**

The following combinations of aggregation and disaggregation modes are valid:

<table>
<thead>
<tr>
<th>Aggregation Mode</th>
<th>Disaggregation Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum</td>
<td>Equal / Proportional, Equal if zero</td>
</tr>
<tr>
<td>Min, Max, Average</td>
<td>Copy / Proportional, Copy if zero</td>
</tr>
<tr>
<td>Custom</td>
<td>Equal Distribution / Proportional, Equal if zero / Copy / Proportional, Copy if zero</td>
</tr>
</tbody>
</table>

We ran checks on all customer systems and have already informed the affected customers in case we found invalid modes in their key figure definitions.
Prepare for 1905 Release: New Validation check in Model Configuration leading to Errors

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.
Further Enhancements in Foundation
Raghav Jandhyala & Anna Linden
To help administrators manage the volume of records that the change history captures, we have limited the sources of change for which changes are tracked by default.

- As of this release, only changes that were made interactively by users are captured by default.
- All other sources where non-interactive changes can originate from need to be manually enabled for tracking in the new Settings for Change History app.
- If you are already using IBP (upgrade customer), all available sources where changes can originate from are still automatically tracked. If required, sources of change can be deselected in the Settings for Change History app.
- Improves performance by reducing the number of change history records being tracked
- Synchronize with Planning Area Changes
Change History Settings Demo
System Monitoring app – Resource Consumption

- Improved visibility of the performance indicators for memory and CPU usage
- Usage calculation now done in **minutes**
- Ability to view data for last 90 days
Application Jobs: Outlier Job Detection

You can use the Outlier Jobs Detection application job template to:

- Find batch jobs that run over an unexpected length of time.
- Have an insight into jobs which run in parallel with the outlier

This job template uses machine learning algorithm.
Default Planning Area Settings

The User Preferences app is no longer available. Instead, you can now set the default planning area in the Me area on the WebUI.

Where to find the default Planning Area settings in the WebUI Me area:
DSX – Built-in support in IBP

Katalin Ocsai
Direct in-solution access to support through an intelligent digital assistant

From SAP CoPilot in IBP, you can now:

- Search IBP documentation
- Create a customer incident with contextual data automatically added*
- Submit an improvement/feature request on the SAP Customer Influence Portal*
- Manage S-users*

*authorization needed
Digital Support Experience (DSX) in IBP using SAP CoPilot

Creating an incident from SAP CoPilot: with the bot or using the form

Adding a screenshot is highly recommended. Technical context info is automatically attached to screenshots.
Creating a feature request from SAP CoPilot
DSX Demo
Documentation Updates
Anna Linden

- 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

SAP Integrated Business Planning Road Map

Strategic Roadmap Webinar Recording (June 27, 2018): http://sapnaevent.adobeconnect.com/pziy47uccq8v/
IBP Webinar Series

100+ recorded SAP, partner and customer webinars since 2015 available for prospects, beginners, and experts.

Extensive webinar schedule for 2019 with over 30+ planned sessions.

New scope and changes in V14.1902

- Technical upgrade to SAP Integrated Business Planning 1902

- The new IBP for sales and operations – time-series-based forecast consumption scope item ensures that sales orders, even if not in the current period, reduce or consume the forecast by the sales order quantity

- The new IBP – time-series-based inbound integration with SAP S/4HANA scope item makes use of the extractors and templates available up to now to transfer the following master data types into the unified planning area for time-series-based planning:
  - Location: Plant, DC
  - Product
  - Location Product
  - Resource
  - Location Resource
  - Subnetwork
  - Customer
  - Production Source Header
  - Production Source Item

- Enhancement of the IBP for demand – supply review heuristic scope item: new combination chart with stacking to show the capacity usage per product family.
Scope in detail

IBP – time-series-based inbound integration with SAP S/4HANA
Integration methods and tools used for SAP Best Practices

**Integrate with SAP S/4HANA**
- **SAP CPI-DS and SAP S/4HANA Add-On for IBP**
- **CSV file upload in Data Integration Jobs app**

**Integration Type**
- **Manual**
- **Automatic**

**What to integrate?**
- Main master and transactional data (must have)
- Additional processes, additional data

**Object type?**
- Time-series

**Orders, etc.**
- For loading sample data

**Integrate with SAP S/4HANA**
- Open API using SAP Smart Data Integration (SDI)

**Communication scenario?**
- Supplier Forecast Commit

**Collaboration**
- SAP Ariba
- SAP Jam

**Supported Master Data Types:**
- Location / Product / Location Product
- Resource / Location Resource
- Subnetwork
- Customer
- Production Source Header
- Production Source Item

**Integrate with SAP S/4HANA**
- SAP S/4HANA Add-On for IBP

**3OF – Time-series-based inbound integration with SAP S/4HANA**

**Integration methods and tools used for SAP Best Practices**

- 2I0 – supply and allocations planning
- 2P0 – response planning
- 2P2 – supplier commit with SAP Ariba
- 2S4 – inbound integration with SAP S/4HANA
- 2S6 – outbound integration with SAP S/4HANA
- 34X – deployment planning
- 2P2 – supplier commit with SAP Ariba
- 11V – demand planning
- 11Z – inventory
- 2BQ – demand review
- 3RT – forecast consumption
- 2BS – supply review – heuristic
- 18N – supply review – optimizer
- 2BU – reconciliation review
- 2BW – management business review

**Used in all scope items**

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Integration methods and tools used for SAP Best Practices

**Integrate with SAP S/4HANA**

SAP CPI-DS and SAP S/4HANA Add-On for IBP

**3OF** – Time-series-based inbound integration with SAP S/4HANA

Supported Master Data Types:
- Location / Product / Location Product
- Resource / Location Resource
- Subnetwork
- Customer
- Production Source Header
- Production Source Item

For selected Master Data Types only!

Integrate with SAP S/4HANA

CSV file upload in Data Integration Jobs app

- Main master and transactional data (must have)
- Additional processes, additional data

Object type?

Integrate with SAP S/4HANA

Open API using SAP Smart Data Integration (SDI)

- Time-series
- Orders, etc.

Communication scenario?

Integrate with SAP S/4HANA

SAP Ariba

- Supplier Forecast Commit

Collaboration

SAP Jam

- 2I0 – supply and allocations planning
- 2P0 – response planning
- 2P2 – supplier commit with SAP Ariba
- 2S4 – inbound integration with SAP S/4HANA
- 2S6 – outbound integration with SAP S/4HANA
- 34X – deployment planning
- 2P2 – supplier commit with SAP Ariba

For loading sample data

Used in all scope items

**11V** – demand planning
**11Z** – inventory
**2BQ** – demand review
**3RT** – forecast consumption
**2BS** – supply review – heuristic
**18N** – supply review – optimizer
**2BU** – reconciliation review
**2BW** – management business review
Scope in detail

IBP for sales and operations – time-series-based forecast consumption
IBP for sales and operations – time-series-based forecast consumption

Process flow:

1. Demand Review
   - Consensus Demand Plan

2. Run Forecast Consumption
   - Total Demand Output

3. Copy to Consensus Demand
   - Consensus Demand

4. Supply Review
   - Constrained Demand

External Process:

Forecast Consumption
SAP IBP Process
External Process
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

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 ALWAYS 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
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 10 company votes is decided
review cycle will be twice per year

▪ Next review in February 2019
IBP Customer Influence Process Key Updates

- Review process will be quarterly and more tightly integrated with IBP release planning
- Customer vote threshold increased to 10
- Voting is now allowed during all phases
Thank you.

Today’s Presenters from Product Management:

- alexis.lozada@sap.com – Inventory Optimization and DDMRP
- anna.linden@sap.com – IBP Excel Add-In
- claus.bosch@sap.com – Order-based Planning / Response
- ina.glaes@sap.com – IBP Best Practices
- katalin.ocsai@sap.com – User Assistance & Documentation
- kenton.harman@sap.com – Alerts, Analytics, and Dashboards
- malika.boubguel@sap.com – Alerts, Analytics, and Dashboards, oData API for Integration with SAC
- michael.mack@sap.com – Order-based Planning / Deployment
- pramod.mane@sap.com – Time-series based Supply Planning
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