What’s New in SAP Integrated Business Planning
2005 (Planned)

SAP Product & Solution Management
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This is a Sneak Preview

The what's new webinar as well as the application help are available some weeks 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

- Intelligent Visibility, Analytics and Exception Management
- SAP IBP Excel Add-in
- Multi-Language Support
- Web-based Planning
- Demand Planning and Sensing
- Supply Planning

- Inventory Optimization
- DDMRP
- Order-based Planning
- Best Practices
- Visualizing Filter Blockers
- Manage User Permissions
- Normalization Migration

Q&A: Chat is open for questions throughout the session with experts online to answer
Intelligent Visibility and Analytics and Exception Management

Kenton Harman
Intelligent Visibility
Intelligent visibility with TomTom or Here map providers

- If you have already a license for **Here** or **TomTom** map providers, you can use it to display the map in Intelligent Visibility app.
- You need to setup your communication scenario in order to use one of these map providers. For more information on how to setup the communication scenario see the guide available in the help portal [here](#).
Alerts based on sales order data

- You can use one of the following alert definition templates to create alerts on an order based planning area (SAP 7 model).
  1. Sales Order (Confirmed late)
  2. Sales Order (Unfulfilled )
  3. Sales Order (Not Confirmed in Time)

- When you use an alert definition template, the attributes, key figures and rules are prefilled for you. This settings are crucial and determine a very specific type of alerts.

You still can make few changes to your alert definition by adding some key figures or attributes but there is a minimum of setup that is needed to make the alerts appear in the Intelligent Visibility app. Some validations are added to guide you before saving.
Display of order based alerts in IV

- Select the Order based planning area
- Select the subscriptions you have configured for your order based alerts using the provided alert definition templates
- Click on Go
Display of order based alerts in IV (2)

- Total alerts per locations is displayed in the red icon
- By selecting a location that has alerts, a detail screen is open.
- A summary of the alerts is displayed in a list
- By selecting an alert from the list, the sales order that are unconfirmed are displayed for the selected location
Display of gating factors

- By selecting a sales order the list of gating factors is displayed that can give a reason why the orders are not confirmed.
- You can always navigate to the View Gating factor app for further analysis such as viewing the order network.
Navigation to Gating factor app (Order network)

Order network can be used to analyze further the gating factors and identify the issues.
Navigation to External Systems

The user has the possibility to navigate to external systems from the gating factors.

- The gating factor provides information that can be used to navigate to the execution system and link to documents such as Purchase Orders, Production Orders and others.

- For detail on configuration of the navigation to S/4 documents see note: 2900539
Analytics
Filter re-design

- The ad-hoc filters are now replaced with attribute filters that you can add dynamically to your analytics charts.
- By default Location ID and Product ID are displayed in the filter (business meaning maintained upfront).
- You can add any other attributes to your filters.
- This feature is available in both Analytics and Dashboard apps.
Support of multiple version or scenarios on a dashboard

- In Dashboard app, you can now compare your data using multiple versions/scenarios.
- When you choose this option, your dashboard will calculate on the fly your alerts, update your analytics charts.
- This feature is not supported for supply chain network and in process management tiles.
Support of map providers for Geo charts

• If you have already a license for **Here** or **TomTom** map providers, you can use it to display your Geo charts.

• You need to setup your communication scenario in order to use one of these map providers. For more information on how to setup the communication scenario see the guide available in the help portal [here](#).
Chart types re-structured

- The chart types are consolidated into collapsible areas for usability purpose and a better space management on the screen.
SAP IBP Excel Add-In 2005.2.0
Anna Linden
Decoupling from SAP EPM
to increase stability, maintainability, and performance and to open up new possibilities for future developments
Decoupling from SAP EPM- based add-ins

Introduction

Being an add-on to SAP EPM (Enterprise Performance Management) acted like a kick-starter when introducing the SAP IBP Excel Add-In back in 2013. Without it, we would not have been able to deliver a Microsoft Excel based Planning UI for IBP in such a fast and stable manner. The working model in the past was very successful and the IBP teams benefitted tremendously from this concept. So why change it now?

1) IBP has grown, its customers have grown, the processes and needs have grown and we see more need to invest in features that are only needed by IBP, but would lead to technical dependencies or blockers with other SAP EPM-based add-ins.

2) Also when looking at performance, the large EPM layer serves mostly SAP Analysis for Office and BPC functions and could be slimmed down with a standalone IBP offering adding future performance improvement potential.

3) Many customers run IBP and other EPM-based add-ins in parallel and need to take the technical dependencies in account when upgrading one or the other solution, which can result in complex IT projects.

With release 2005, the IBP Excel add-in is no longer defined as an add-on to SAP EPM but is technically independent from SAP EPM. To gain independence, some fundamental changes had to be applied that will either provide immediate benefits to you or that are allowing us to tackle new feature developments in future that were up to now blocked due to dependencies.
Decoupling from SAP EPM- based add-ins
Benefits and General Changes

Maintainability: [https://influence.sap.com/sap/ino/#/idea/229492](https://influence.sap.com/sap/ino/#/idea/229492) - Easier rollout of new IBP and EPM Excel Addin versions

- Different way to run EPM and IBP Excel add-ins in a side-by-side scenario. You don’t need to use the side-by-side installers any longer.
- It is planned to stabilize the minimum required EPM version as much as possible in future so that an upgrade of the IBP Excel add-in does not require an upgrade of SAP EPM (and vice versa). Right now: SAP EPM 10.0 SP37 Patch 1

Usability:

- All EPM options and that were not compatible with IBP were removed. The ones that are compatible are summarized under a new “Options” window.
- We cleaned up the EPM Report Editor window and removed all settings that were not compatible with IBP.
- All EPM functions that were not compatible with IBP were removed. The ones that are compatible with IBP (e.g. EPMUser() ) continue to work as before. We have furthermore introduced these in the IBP namespace (e.g. IBPUser() ).

Miscellaneous:

- We introduce the IBP Formatting Sheet which is automatically migrated from your existing EPM formatting sheets. With the 2005 release, both mostly look the same, but in future this provides the possibility to adapt the formatting sheet to the needs of the IBP solution without interfering with EPM.
- We automatically migrate your existing VBA code that is currently pointing to EPM with a link to IBP.
- We introduce a new Sheet type called “IBP” to distinguish the workbook sheets that relate to IBP planning views from the ones with EPM views.
- New product code for the SAP IBP Excel add-in that is needed to run the command for silent installation and un-installation.
All your templates and favorites will work as before.

Everything is migrated automatically and on the fly.
Bottom Line

All your templates and favorites will work as before.

Everything is migrated automatically and on the fly.

But…
Decoupling from SAP EPM-based add-ins

Backward Compatibility of Templates and Planning View Favorites

In order to completely cut any of the boundaries with SAP EPM, the structure and namespaces of the planning views on IBP side were changed. The IBP Excel add-ins from 2005 onwards are saving and updating the planning view templates and planning view favorites in this new format.

SAP IBP Excel add-ins that are older or equal to 2002.x.0 will not be able to open these planning view templates. The user will get an error message:

Please take this into consideration when upgrading to the 2005 version. It is recommended to upgrade all users at once.

The administrators updating and adding templates or shared favorites will see a warning message on the UI:
Meet the Expert Webinar - especially dedicated for the 2005 version of the SAP IBP Excel add-in

May 5, 2020 / 10:00-11:30 am US EST

Registration page:

And now let’s talk about new features…
Installer: New advanced setup options to improve stability and performance
When installing the IBP Excel add-in 2005 version, you will see a new advanced set-up menu with 2 additional options to choose from.

The first one lets you choose if you want to disable the Office Clipboard for Microsoft Office applications on that PC. Within this clipboard, users can usually find the history of their copy activities (e.g. when you copy text via CTRL + C).

By default, it is set to “Disabled”. If you wish to continue to use the Office Clipboard, you can uncheck this option and it will be continued to be enabled.

It is recommended to disable it due to performance considerations. Please find further information in this Microsoft Support Note:


Please note that the clipboard can only be disabled during installation when no other Microsoft Office applications (e.g. Word, Power Point, Excel, Outlook) is open. The Office Clipboard deactivation required changes to the registry keys. These can only be changed when all Microsoft Office are closed at the time of the installation of the SAP IBP Excel add-in. If any of the applications are running during installation, the Office Clipboard remains enabled.
The other advanced option is a new startup option, which can place the IBP Excel add-in as

- Windows Start Menu entry
- Shortcut on your Desktop

Both options are by default switched on as they come also with some recommended stability improvements.

When opening Excel via these shortcuts, a **new Microsoft Excel instance will automatically open**. Also, **certain functions and settings are automatically checked and corrected so that the IBP Excel add-in is visible and working** in the Microsoft Excel ribbon. This includes:

- The “SAP IBP, add-in for Microsoft Excel” as well as the “SAP IBP - Technical migration add-in (required)” are automatically enabled in the Microsoft Excel options.
- The “SAP IBP, add-in for Microsoft Excel” as well as the “SAP IBP - Technical migration add-in (required)” are automatically activated in the Microsoft Excel options.
- The load behavior is automatically set to auto-load in the Microsoft Excel Add-In Manager.
- Some repair mechanisms are run.

[IBP Excel add-in installer: Advanced Setup Startup Options / Launcher](https://influence.sap.com/sap/ino/#/idea/210590)

[Improved Excel Add-in Reliability](https://influence.sap.com/sap/ino/#/idea/232255)

[IBP Addin that launches unique Excel Instances](https://influence.sap.com/sap/ino/#/idea/232255)
New Go Offline Mode
to easily share your planning views with non-SAP IBP Excel add-in users
Offline Mode for IBP Planning Views

With the new Offline Mode, you can now easily share your IBP Planning Views with users who do not have the IBP Excel add-in installed.

These users can open and work with the planning views (e.g. update key figure values) as a normal Excel Workbook file, send it back to you as an Excel Workbook and you can then set it to online mode again and upload their changes to the IBP backend system.
Offline Mode for IBP Planning Views
Convert IBP Formulas

By clicking on “Go Offline” in the “Data Input” group of the IBP ribbon, your current workbook including all sheets is converted to a Microsoft Excel Workbook that does not contain the IBP references and formulas any more so that it can be understood by Microsoft Excel installations that don’t have the IBP Excel add-in installed.

Example:

**IBP formulas and references in an IBP planning view (online mode):**

\[ f_c = \text{EPMOlapMember0}(["\text{KEY\_FIGURES}\].[],[\text{CONSENSUSDEMAND}]],\"\text{Consensus Demand without Promotions}\",\"000\") \]

This online IBP formula can only be understood by Microsoft Excel installations that also have the IBP Excel add-in installed.

**IBP formulas and references in a converted planning view (offline mode):**

\[ f_c = \text{IF}(_{\text{ibpOfflineCondition}};\text{"Consensus Demand without Promotions"};\text{EPMOlapMember0}(["\text{KEY\_FIGURES}\].[],[\text{CONSENSUSDEMAND}]],\"\text{Consensus Demand without Promotions}\",\"000\")\]

This offline formula can be understood by all Microsoft Excel installations, even without the IBP Excel add-in installed.
Offline Mode for IBP Planning Views
Sheet Protection

By clicking on “Go Offline” in the “Data Input” group of the IBP ribbon, your current workbook including all sheets is furthermore protected against changes that would destroy its structure and later on make it impossible to set it to “online mode” again and save the changes.

Only the data input area can be used in the offline mode. When the user clicks in any other area (highlighted in red in the screenshot), a warning comes up and his action is blocked. He cannot for example change the name of a key figure or an attribute value or remove rows from the sheet.

Please note that the formatting sheet is not protected against changes.
New Context Menu: Show Cell Properties to ease your life when defining formatting rules
Context Menu: Show Cell Properties

On a planning view, you will now see a new entry in the context menu, when doing a right-click on a cell containing an attribute value (e.g. MyBrand), a key figure (e.g. Delivered Quantity), or a time period (e.g. May 2020).

Depending on the object that you clicked on, additional information is shown that can be useful to better understand the object and which can also be used to easier identify the member properties to use in the formatting sheet.
Support different Office Themes
to increase usability and accessibility
Support different Office Themes

The IBP Excel add-in windows* have now been reworked and are adjusting according to the office theme that the user has set (e.g. for Office 365 under File → Account).

Examples for User Settings:

- **White Theme:**
- **Colorful Theme:**
- **Dark Gray Theme:**
- **Black Theme:**

* Please note that there are few exceptions e.g. in the formatting sheet.
Support for Multi-Language
to support your global implementation
Support for Multi-Language

With the IBP 2005 release, you can maintain the attributes and key figure names and descriptions in different languages within the Multilanguage Support app in the IBP WebUI.

These translations are then also reflected in the SAP IBP, add-in for Microsoft Excel 2005.2.0. The language that is taken into account is the language that the user has set in the user settings in the add-in ribbon. If no translation exists for that language set in Excel, the texts are shown in the default system language which can also be set in the Multilanguage Support app.

The translated texts appear for example in the following area:

- Edit Planning View incl tooltip
- Planning View
- Filters
- Master Data Workbook

In case language content is changed while a user is still logged on, the user will only see these changes after disconnecting and logging on again.
Multi-language Support
Balazs Buday
Multi-language support

Translatable object names, displayed in the actual users’ login language in planning views and various IBP screens.

Capabilities

- Optional to use
- Download & upload text to/from CSV
- Planning Area Copy and Transport takes over all translations
- Supported texts:
  - Attribute Name/Description (PA Independent)
  - PA-Attribute Description (PA Dependent)
  - KF Name and Description (PA Dependent)
Demo: Multi-Language Configuration
Web-based Planning

Pramod Mane & Ralf Heimburger
Web-Based Planning: New Side Panel for Planning view settings

- **Improved usability with a new side panel screen for the planning view settings**
- **You no longer need to navigate away from the planning view if you want to change its settings**
- **You can change the settings, apply your changes, and check if you’re satisfied with the result right away**

**Value Proposition**
- **Improved usability with grid and planning view settings on the same screen**
- **Allows to change the settings, apply your changes, and visualize the results immediately**

**Capabilities**
- **Collapsible side-panel layout for planning view settings**
- **See at a glance which of the key figures you selected isn’t shown in the planning view.**
- **If the icon is shown next to a key figure, this tells you that there’s no planning data available for the key figure in the selected time interval.**
  
  This icon is only available on the new panel

New Panel for Planning view settings

This is the current state of planning and may be changed by SAP at any time without notice and key innovations do not reflect licensing
Settings for Displaying Planning Notes

• As of this release, planning notes are no longer shown automatically.
• You can now define in the planning view settings whether you want them to be shown.
• You can decide whether you want to see the planning notes for the planning level that you’ve set for the planning view, or whether you want to see the planning notes for all planning levels.
• In the planning views that you created before the update to 2005, planning notes continue to be shown by default, so you don’t need to actively switch them on in the planning view settings.
Order information in Web-Based Planning

Connect time series data with order data
A user can now show order information from order-based planning in the Web-Based Planning app. It’s now possible to show the orders that make up certain key figure values, which helps the user understand the results of a planning run.

A new icon tells you whether detailed order information is available for a key figure. The user can show the order information for one or more key figure values on the same screen as the planning view. A table containing the relevant orders is displayed below the planning view.
Web-Based Planning: Show order information in an OBP planning view

Value Proposition
• Show key figure values and underlying order information on the same screen.
• Understand which orders sum up to the selected key figure cell values.

Capabilities
• Show order information for supported order-based planning key figures.
• Show different types of orders:
  • Planned & production orders,
  • Stock transfer requisitions and orders,
  • Purchase requisitions and orders,
  • Sales order schedule line information
• Navigation to View Confirmation app and Analyze Supply Usage app
You can view order information for any combination of attributes that the definition of the key figure allows. This means that you can show the information at different levels of detail.

Show order information as follows:
- Select one or more cells in a row
- Open context menu and choose “Show Order Information”
- Order details list is shown in a table below the key figures
- Number of orders is shown next to description of selected key figure
Web-Based Planning: Sales Order information

Sales order schedule line information is shown for external key figures:

- Sales Order (Request)
- Sales Order (Confirmed)
- Sales Order (Confirmed in Time)
- Sales Order (Confirmed Late)

Sum of order information quantity = sum of selected cells in the grid

Navigation to app “View Confirmations“
Web-Based Planning: Planned Order and Production Order

Planned order and production order information is shown for external key figures:

- Production (Planned)
- Production (Confirmed)

Sum of order information quantity = sum of selected cells in the grid

Navigation to app “Analyze Supply Usage“
Web-Based Planning: Purchasing Documents

- Purchase Requisitions and Purchase Orders
- Stock Transfer Requisitions and Stock Transfer Orders
- Supported external key figures
  - Distribution Demand (Planned)
  - Distribution Demand (Confirmed)
  - Distribution Demand (Lane)
  - Distribution Demand (Lane; Planned)
  - Distribution Demand (Lane; Confirmed)
  - Dependent Demand (Planned)
  - Dependent Demand (Confirmed)
  - Distribution Receipt (Planned)
  - Distribution Receipt (Planned; Goods Receipt)
  - Distribution Receipt (Lane)
  - Distribution Receipt (Lane; Planned)
  - Distribution Receipt (Lane; Planned; Goods Receipt)
  - Distribution Receipt (Confirmed)
  - Distribution Receipt (Lane; Confirmed)
- Sum of order information quantity = sum of selected cells in the grid
- Navigation to app “Analyze Supply Usage”
System Administration

This new feature is only available in the **Web-Based Planning** app.

- Not available in **Web-Based Planning Customers** and **Web-Based Planning Suppliers**

The business catalog **SAP_IBP_BC_WBP_PC** has been enhanced with the new restriction type **Order Details**, where the system administrator can define the planning areas and key figures that users can view order information for.

![Diagram showing the business catalog settings with Order Details highlighted]

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Demand Planning
Rainer Moritz
Demand Planning Enhancements with IBP 2005

- Enhancements of Forecast Automation
- Enhancements of Product Lifecycle Management
- Enhancements of Realignment
- Enhancements of Lag-Based Snapshot
Forecast Automation: Leverage detected Change Points in Forecasting (1/4)

Enhancement to Forecast Automation

Change Point Detection was already introduced with IBP 1911:
New with IBP 2005:

Include change point information as additional system-generated feature to the forecasting methods **MLR** and **(S)ARIMAX**

=> Forecast methods can react **automatically** on structural changes in the sales pattern
Forecast Automation: Leverage detected Change Points in Forecasting (3/4)

Example

One change point detected:
Forecast Automation: Leverage detected Change Points in Forecasting (4/4)

Example

Forecast with MLR without using change point information:

Forecast with MLR with using change point information:
Demand Planning Enhancements with IBP 2005

- Enhancements of Forecast Automation
- **Enhancements of Product Lifecycle Management**
- Enhancements of Realignment
- Enhancements of Lag-Based Snapshot
Product Lifecycle Management at aggregated Product Level

Define Settings on aggregated Level

New with SAP IBP 2005:
Define product references and forecast dates on an **aggregated product level**, for example product group or product family.

)=> Forecast runs on **an aggregated product level** can consider these definitions
Demand Planning Enhancements with IBP 2005

- Enhancements of Forecast Automation
- Enhancements of Product Lifecycle Management
- Enhancements of Realignment
- Enhancements of Lag-Based Snapshot
Realignment

Download Realignment Projects

Download:
- CSV file in the Unicode format UTF-8
Demand Planning Enhancements with IBP 2005

- Enhancements of Forecast Automation
- Enhancements of Product Lifecycle Management
- Enhancements of Realignment
- Enhancements of Lag-Based Snapshot
Lag-Based Snapshot (1/2)

Recap

Lag-based snapshots:

- used for forecast error calculation, demand sensing and other planning purposes
- are taken with predefined lags and saved in a key figure that has “Lag” as a root attribute

Lags represent the number of periods between the period in which the forecast is created and the period for which the forecast is calculated.
Lag-Based Snapshot (2/2)
Enhancements

Packaging for Lag-Based Snapshots
• You can now configure your IBP system to run lag-based snapshots in packages
• This will decrease the memory overload for very large lag-based snapshot application jobs, but it may increase the overall runtime of the jobs
• By default, the packaging capability is not activated.

Disregarding Zeroes in Lag-Based Snapshots
• You can now set the system to disregard zero values in source key figures while taking lag-based copies
• If 0 values are disregarded, no new planning object records are created for the target key figure when the source value is 0
Demand Sensing
Mehmet Demirci
1) New Enhanced Daily Disaggregation Algorithm in Demand Sensing

- Starting with IBP 2005, Demand Sensing now supports an advanced algorithm that users can choose for the daily disaggregation of sensed demand. This new machine learning algorithm is better suited to capture any trend shifts and periodically repeating patterns in how the demand in a week is distributed within the days of the week while optimizing daily sensed demand.

- Users can trigger these options through the Forecast Model UI: the Demand Sensing (Full) algorithm UI has now one additional setting called Daily Disaggregation Method. The choices provided here are:

  - **Static, Based on Best Fit** *(default)*: Triggers the daily disaggregation method that has been available in Demand Sensing before IBP 2005 as well. This is the default setting.

  - **Dynamic, Based on Sales Orders**: Triggers the new enhanced daily disaggregation machine learning logic and uses daily sales patterns from history to predict dynamic daily sensed demand patterns in the planning horizon.

  - **Dynamic, Based on Delivered Quantities**: Triggers the new enhanced daily disaggregation machine learning logic and uses daily delivered quantity / shipment from history to predict dynamic daily sensed demand patterns in the planning horizon.
1) Sensed Demand Daily Disaggregation: Dynamic, Based on Sales Orders

- Weekly Sensed Demand Optimization / Pattern Recognition Algorithm optimizes Weekly Sensed Demand in the Planning Horizon

- This option triggers the new enhanced daily disaggregation machine learning logic and uses daily sales patterns from history to predict dynamic daily sensed demand

* or Confirmed Quantity Based on the Forecast Model Setting “Main Input for Forecasting Steps”
2) Excluding Historical Weeks from Machine Learning in Demand Sensing

With IBP 2002 we introduced the capability for users to tag historical weeks to be excluded from the weekly demand sensing machine learning algorithm…

Massive market shortages creating high peaks: Results without any historical-period exclusions

Results after excluding periods with massive market shortages
2) Excluding Historical Weeks from Daily Machine Learning in IBP 2005

1. Last 4 Weeks of History
   - Weeks with skewed shipment patterns due to issues with transportation partner
   - Normal patterns: Mon and Thu usually have highest volume

2. Planning Horizon – Daily Sensed Demand Patterns
   - No User-Specified Exclusions for Daily Optimization

   - This product is typically shipped mostly on Mondays and Thursdays
   - Last year, intermittently we had issues with our transportation partner – which skewed this pattern: Recent 2 weeks with such behavior are shown here
   - If we do not tag these as exceptional periods for Demand Sensing’s daily optimization, it will also learn from these events while sensing daily patterns

3. Last 4 Weeks of History
   - Weeks with Skewed Patterns from Transportation Issues Excluded

   - When we tag problematic historical weeks as user-specified outlier / exclusion periods, Demand Sensing will skip these periods while learning daily demand patterns during its daily optimization step
   - You see how Sensed Demand captures our normal daily trends in this case

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3) Product Phase-outs in Demand Sensing

- Demand sensing now supports the phase-out of products
- It will propose minimal adjustments to the forecast during the phase-out period and there will be no sensed demand computed after a product has phased out
Supply Planning
Pramod Mane
Transportation Calendars

- You can now use transportation calendars to define the periods in which a transport can depart, be in progress, and arrive.
- Transports can be interrupted by non-working periods that prolong their actual duration, meaning that they might take longer than the transportation lead time defined in master data.
- Transportation calendars are only available with the time-series-based supply planning heuristic (type: Infinite Without Shortages), the time-series-based supply planning finite heuristic, and the time-series-based supply planning optimizer.
- You can only define one calendar per location source of supply. If you've defined a mode of transport, you can only define one calendar per mode of transport source (per MOTID) for each location source. Consequently you can define either an inbound calendar or a transportation calendar for a location source of supply, but not both.
Transportation Calendars

Transportation Calendars and Transport Resources

• If you've defined a transport resource for a location source, assigning a transportation calendar to it affects its capacity consumption.

• No capacity consumption takes place in non-working periods because the transport temporarily pauses. The capacity consumption is moved from a non-working period to the next available working period in the duration of the transport.

• Non-working periods of a transportation calendar also affect capacity consumption offsets, increasing them by each non-working period in the time span of the offset.

• For example, an offset of three periods indicates that the capacity consumption should start three periods after the period in which the transport started. If the second period is non-working, this offset increases to four, so that capacity consumption starts four periods after the first period of the transport.
Transportation Calendars

- The **planning level** of transportation calendars is the same as the location source, as the calendar information relates to a specific location source. This means you can assign transportation calendars to location sources on the planning levels LOCID, PRDID, and LOCFR and, if you've defined means of transport, you can also use the MOTID planning level.

- **Configuration:** Master data attribute (Calendar type) TRANSPORTCALID in the location source master data. This must be a calendar attribute type and must contain the calendar ID of the transportation calendar you want to assign to the location source.
You can now use production calendars to define working and non-working periods for resources. A production process can't start or end in non-working periods, potentially extending it (for lead times longer than one period) so that it could take longer than the lead time defined in master data.

Production calendars are only available with the time-series-based supply planning optimizer and the time-series-based supply planning finite heuristic. The other heuristic types don't support production calendars.

If a production process is scheduled to start or end during a non-working period of a production calendar, the planning algorithm brings forward its start so that it starts and ends in working periods.

If a production source's lead time is longer than one period, the production process may also be interrupted by non-working periods, leading to an actual duration longer than the production lead time defined in the production source master data. In such a case, the planning algorithm also brings forward its start to the first available working period.
Production Calendars

Configuration:

- Master data attribute (Calendar type) PRODUCTIONCALID in the production source master data.
- This must be a calendar attribute type and must contain the calendar ID of the production calendar you want to assign to the production source.
Finite Heuristic Enhancements

The time-series-based supply planning finite heuristic has been enhanced to support more features. It now supports:

- Excluding dependent location demand and dependent production demand in the static periods of supply lot-sizing procedure.
- Time-dependent production source item coefficients.
- All capacity consumption policies (previously policy 2 wasn’t supported).
- Maximum lot sizes.
Additional Enhancements or Changes

New Adjusted Key Figures Handling Policy Parameter in S&OP Operator Profiles App

The Adjusted Key Figures Handling Policy parameter gives you more choice about how you want the planning algorithms to deal with adjusted key figures.

You can assign this parameter to the planning profile using one of the following settings:

- **APPLY** (default), which takes values in all adjusted key figures into account.
- **RESET**, which means that all adjusted key figures are overwritten with a null value (where null is an empty string and therefore not the number zero), and these null values are saved permanently to the database. Using this option permanently clears all adjusted key figure values and should be used with caution.
- **IGNORE**, which ignores values in all adjusted key figures for the current run, but doesn't delete them permanently.

Migration to Normalized Data Model - Effect on Forecast Consumption

This release includes a migration report that runs automatically during the upgrade to set the input/output indicator for forecast consumption key figures and generate the default expression for input key figures that have a calculation.

This is needed to prepare your planning areas for migration to the new normalized data model and to ensure that forecast consumption continues to run successfully.

Moving to a normalized data model typically reduces memory consumption and improves performance.
Announcements

Time-Series-Based Supply Propagation Heuristic No Longer Available for New-Installation Customers

As of the 2005 release, the time-series-based supply propagation heuristic is no longer available for customers on newly installed SAP IBP systems. Such customers can use the time-series-based supply planning optimizer* or the time-series-based supply planning finite heuristic* instead.

As a customer upgrading to 2005 who has already used the supply propagation heuristic in previous releases, you can continue using it.

To those upgrade customers who haven't used the supply propagation heuristic so far, we recommend using the optimizer* or the finite heuristic* instead.

* May require additional license for IBP for response and supply
Visibility of the network topology echelon number to aid validation of multistage optimization results

- Multi-stage optimization results for balancing inventory across locations based on the magnitude of uncertainty.
- Effective validation of such optimal inventory balancing results across a multi-stage network by identifying networks and corresponding echelons.
- New attribute network echelon level defines number of echelon position for each output of attribute IO Network ID, facilitating the validation of multi-stage results.
- The new attribute network echelon level is an output of the planning operator global (multi-stage) inventory optimization at the product location level.
- Note: IO network ID attribute must exist in planning area configuration for proper processing of network echelon level output. Otherwise, no output for network echelon level.
SAP Fiori app for planning profile configuration of all inventory optimization planning operators – Beta Release (Do not adopt in Production)*

- Create planning profiles with choices for planning horizons using the SAP Fiori app Inventory Profiles.
- For new profiles, define profile name, planning area, description and planning horizon (supports week inputs only and defaults to 52 weeks).
- Use the SAP Fiori app Inventory Profiles to create job templates and run application jobs:
  - Planning operator type: IO_PROFILE
  - Planning Operator: Inventory Planning Profile
  - Standard job template: Profile Based Inventory Optimization
- Excel UI will not be supported.
- Impacted planning operators:
  - Global (multi-stage) inventory optimization
  - Calculate Target Inventory Components
  - Decomposed (single-stage) inventory optimization

Ease of use additions to Fiori app Supply Chain Network

- User can view created network charts in a List report. List report includes features such as:
  - Details about network charts: Description, Planning Area, etc.
  - Create and Delete network charts
  - Add to Dashboard
  - Selection of Favorites
  - Adapt Location ID filter to allow users to select values for Location attributes defined to describe a location description, e.g., LOCDESC, LOCDESCR.
Incorporate periods of frozen orders in inventory planning

- Support for inventory plans including cases when supply sourcing requires locking work order requirements independent of changes in demand.
- Support for inventory plans that consume user-defined weeks of required unchanged demand downstream from a source of production, transportation, or customer-facing warehouse.
- Feature that is mostly relevant to customers planning inventory with master production schedules.
- Three attributes as key figures, which will allow users to specify how many weeks of downstream demand forecast are frozen:
  - IO Customer Frozen Window (IOCFROZENWINDOW at SOURCECUSTGROUP master data type)
  - IO Transportation Frozen Window (IOTFROZENWINDOW at SOURCELOCATION master data type)
  - IO Production Frozen Window (IOPFROZENWINDOW at SOURCEPRODUCTION master data type)
- Impacted planning operators:
  - Global (multistage) inventory optimization
  - Decomposed (single-stage) inventory optimization
Calculate fair-share lot sizes in non-stockling push logic through a defined allocation horizon

• User ability to define the number of periods (weeks) used to allocate lot size inputs from a non-stockling node to multiple nodes downstream:
  • Fair-share allocation logic based on the propagated demand mean of each downstream node over the defined number of periods (weeks).
  • Attribute non-stockling allocation horizon (NONSTOCKALLOCATIONHORIZON) in the “Location Product” master data type supports the feature with integer inputs based on weeks.

• Application of fair-share allocation logic only to cases where a non-stockling node sources multiple nodes downstream:
  • When non-stockling allocation horizon = NULL, allocation horizon will default to four (4) weeks.
  • When non-stockling allocation horizon <= 0, allocation horizon default to one (1) week.

• Relevant Input Lot Sizes:
  • Production Minimum Lot Size (PMINLOTSIZE)
  • Production Incremental Lot Size (PINCLOTSIZE)
  • Transportation Minimum Lot Size (TMINLOTSIZE)
  • Transportation Incremental Lot Size (TINCLOTSIZE)

• Planning Operator: Calculate Target Inventory Components.
Improve intermittent demand classification for forecast error calculation

- App for managing forecast error calculations for Inventory Optimization offers a new setting that defines the removal of low sales when classifying demand frequency.
- Support for inputs between 0 and 100, representing a percent threshold to define small sales with new setting "minimum sales for demand frequency classification %".
- No consideration of any input value below the defined percent threshold in the demand frequency classification.
- Setting default to zero for null inputs.
Delivered updates for Cyclical Sourcing Handling

- In addition to planning operator Global (multi-stage) inventory optimization, planning operator Decomposed (single-stage) inventory optimization handles cyclical sourcing.
  - Parameter group: INVENTORY
  - Parameter name: LOOP_HANDLING
  - Parameter value: LOG or REMOVE or ENABLE. If any other value besides LOG, REMOVE, or ENABLE is provided or the parameter is missing, then value defaults to REMOVE.

- For Global Parameter LOOP_HANDLING, REMOVE parameter has a modified behavior.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Current Behavior</th>
<th>IBP 2005 Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG</td>
<td>Cyclical sourcing data (loops) are logged in user business logs.</td>
<td>Cyclical sourcing data (loops) are logged in user business logs.</td>
</tr>
<tr>
<td>REMOVE</td>
<td>Transportation loops (up to six levels) are logged and removed.</td>
<td>Transportation loops (up to six levels) are removed, then Inventory optimization algorithm detects any remaining transportation and production loops and logs them as warnings.</td>
</tr>
<tr>
<td>ENABLE</td>
<td>Inventory optimization algorithm detects transportation and production loops and logs them as warnings.</td>
<td>Inventory optimization algorithm detects transportation and production loops and logs them as warnings.</td>
</tr>
</tbody>
</table>
# Planned Changes in Inventory Global Configuration Parameters

<table>
<thead>
<tr>
<th>Global Parameter Name</th>
<th>IBP 1911 Default Value</th>
<th>IBP 2002 Default Value</th>
<th>IBP 2005 Default Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMAND_PROPAGATION_SRC_SWITCH</td>
<td>No</td>
<td>Yes</td>
<td>Yes. Note: Deprecate from UI</td>
</tr>
<tr>
<td>SMOOTH_SS_AROUND_SRC_CHANGE</td>
<td>No</td>
<td>Yes</td>
<td>Yes. Note: Deprecate from UI</td>
</tr>
<tr>
<td>EXPOSURE_ROUNDING_FOR_BACKLOG</td>
<td>Yes</td>
<td>No</td>
<td>No. Note: Deprecate from UI</td>
</tr>
<tr>
<td>NON_STOCKING_PUSH</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes. Note: Deprecate from UI</td>
</tr>
</tbody>
</table>
Demand-Driven MRP (DDMRP)
Atul Bhandari
Summary of What's New in Demand-Driven Replenishment

Automated Data Cleansing Support for DDMRP attributes
- Default buffer profile set ID definition for locations missing buffer profile set assignment
- Intelligent replacement of invalid user-provided buffer category overrides (lead time and variability)

Improved Accuracy of Calculated Daily Buffer Levels
- Buffer levels calculated individually for every day and can vary within the week
- Useful for networks with
  - short lead times (in days)
  - rolling ADU calculation using future or blended horizon and daily forecasts (ex: demand sensing)
- Option to update buffer levels outside of decoupled lead time

New master data attributes to support daily lead times and order cycle
- Improved usability for planners to review and analyze lead times and order cycle in days
Buffer Positioning and Sizing

Setting Default Buffer Profile

Default Buffer Profile Set ID in Demand-Driven Replenishment Profile app

In 2005, users can provide a default buffer profile set ID for demand-driven operators to use for locations where the attribute PROFILESETID is not uploaded on the IBPLOCATION master data. Prior to 2005, the operators do no calculate any buffer levels for such locations.

![Image of SAP Demand-Driven Replenishment Profile setup page](image-url)

Also for Calculate DDMRP Buffer Levels operator
Buffer Positioning and Sizing
Intelligent replacement of invalid user-provided buffer category overrides

In 2005, invalid values for category override attributes in the IBPLOCATIONPRODUCT master data type are intelligently ignored by the demand-driven replenishment operators

- Lead Time Category Indicator Override (LTCATEGOVERRIDE)
- Variability Category Indicator Override (VARCATEGOVERRIDE)

The operators instead calculate and use the category attributes for the affected product-locations when calculating buffer zone values for decoupling points

- Lead Time Category Indicator (LEADTIMECATEGORY)
- Variability Category Indicator (VARIABILITYCATEGORY)

In prior releases, no buffer zone were being calculated for such location-products.

Note: A value is deemed invalid if there is no corresponding entry in the buffer profile master data.
Buffer Positioning and Sizing
Review of Buffer Level Projections

Buffer zones are calculated on daily-level

In 2005, Buffer levels are calculated for every individual day based on
• ADU of that day
• Decoupled lead time, order cycle from base period (current day)

Prior to 2005, buffer levels were calculated on a week-by-week basis and copied equally to all days of the week

Requires adoption of SAP8 sample model changes in 2005
– Backward compatibility is supported as before
1. These changes are in the sample planning area only. Customer planning areas are not updated. Demand-driven operators continue to be backward compatible.

2. These changes are for SAP8 only. CPI-DS integration template for DDMRP is updated.

3. Other sample planning areas are not changed. They will adopt over time. Changes are necessary as DDMRP operates on daily level.

---

**SAP8 Sample Model Changes in 2005**

**Added support for lead time and order cycle in days**

<table>
<thead>
<tr>
<th>existing MD attributes (prior to 2005)</th>
<th>new MD attributes (2005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(measured in weeks)</td>
<td>(measured in days)</td>
</tr>
<tr>
<td>Master Data</td>
<td>Attribute</td>
</tr>
<tr>
<td>SOURCELOCATION</td>
<td>TLEADTIME</td>
</tr>
<tr>
<td></td>
<td>TLEADTIMEVARIABILITY</td>
</tr>
<tr>
<td>SOURCEPRODUCTION</td>
<td>PLEADTIME</td>
</tr>
<tr>
<td></td>
<td>PLEADTIMEVARIABILITY</td>
</tr>
<tr>
<td>LOCATIONPRODUCT</td>
<td>PBR</td>
</tr>
<tr>
<td>SOURCECUSTGROUP</td>
<td>CUSTOMERTOLERANCETIME</td>
</tr>
<tr>
<td></td>
<td>SALESORDERVISIBILITYHORIZON</td>
</tr>
</tbody>
</table>
New Parameter in Demand-Driven Replenishment Profile app

- By default, DDMRP operators calculate buffer levels for all days in calculation horizon including within the decoupled lead time (DLT)
- The first buffers relevant for calculating the order recommendation today are in the period decoupled lead time from today.
- In 2005, users can freeze buffer levels within DLT (relevant for the past) when the DDMRP operators are run. This is achieved via this flag on the planning profile for DDMRP operators.
- This setting is editable only for planning areas that contain the 2005 SAP8 sample planning area model as a subset.
- For DDMRP relevant planning areas created using the SAP8 sample planning area prior to Release 2005, this setting is not editable.
Order-based Planning

Thomas Fiebig & Claus Bosch
Deployment Optimization

Deployment Optimization is introduced as new planning run in IBP 2005. Optimization determines the **globally optimal solution** based on predefined costs for supply alternatives and demands.

Deployment Optimization provides an additional method for distribution planning besides the finite priority heuristic, fully integrated in the end-to-end process.

Customers can use Deployment Optimization to support push, pull and mixed deployment strategies.

**Value Proposition**
- Network-wide optimization of distribution supply chain weighing local decisions against each other
- Order generation with full traceability and root cause analysis
- Deployment Cost Generation (in IBP 2008) will allow easier cost setup based on business criteria

**Capabilities**
- Network cost model can be flexibly defined to support different business scenarios including push and pull deployment
- Complexity of network and constraints impacts on runtime and scalability
- Fully exchangeable with deployment finite heuristic with respect to input/output data

---

Order-Based Planning: Deployment Run

**General**
- Planning Run Type: Deployment Run
- Version or Scenario: SAP2005C / Base Version
- Planning Run Algorithm: Finite Heuristic
- Optimizer

**Control Parameters**
- Planning Run Profile: PRP_CUSTOMER_PRI01
- Available-to-Deploy Profile: FIXORDERS

**Planning Start Settings**
- Planning Start: Job Execution Time
Adjusted Stock Transfer Quantities at Ship-From Location

- With IBP 2005, manual adjustment key figures in Order-Based Planning are split into two key figures:
  - **Minimum Quantity**: A virtual demand to be fulfilled by planning if possible
  - **Maximum Quantity**: An upper limit that cannot be exceeded by planning (hard constraint)
- Two, new manual adjustment key figures allow to define stock transfer quantities with requested ship date at the ship-from location:
  - **Minimum Stock Transfer Requirements**
  - **Maximum Stock Transfer Requirements**
- Suitable in push deployment scenarios to push out available supply from non-stock locations to downstream stocking locations
How Component Replacement Works

The following figure shows how PDS components replace each other in a manufacturing process. Depending on which point in time an order is created, the below timeline displays which PDS components will be taken into account in your planning run.
Considering Component Validity at Integration

In order to make component validities part of your supply chain plan, you need to enable the integration of component validity information in OBP.

Whether you are using SAP ERP, supply-chain integration add-on for SAP IBP or SAP S/4HANA supply chain integration add-on for SAP IBP, you should select the **Use Component Validity** checkbox within the `/IBP/ECC_INT_PDS - Integrate Production Source of Supply to IBP` transaction in the add-on, which allows you to transfer the integration selection of your master data into a staging table before integrating them to OBP.

**Cautious:**
If the usage of component validity is not enabled, changes of component validities will not be integrated in OBP – technically speaking, no integration will occur for components that have a **Valid to** date different from the related PDS header’s **Valid To** date.
Component validity determines the time range when PDS components should be used for production as per your processes. Together with the BOM explosion rule applied to your production data structure, it allows you to improve the accuracy of your supply chain planning, helping you to assess the operational and financial impact of BOM changes.

### Process

1. **Integrate PDS**
2. **View BoM components with validities**
3. **Consider BoM component validity**

---

**Optional:** Version-specific change of master data

<table>
<thead>
<tr>
<th>Step Description</th>
<th>System</th>
<th>View BoM component validities in Fiori App and Excel Master Data workbook</th>
<th>IBP OBP planning runs consider BoM component validity</th>
<th>Version-specific change of PDS component quantity or validity dates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Integrate BoM with component validities</strong></td>
<td>SAP ERP or S/4HANA supply chain integration add-on for SAP IBP</td>
<td>IBP</td>
<td>IBP</td>
<td>IBP</td>
</tr>
</tbody>
</table>
Planning with the Validity of Production Data Structure Components

You can now plan with component validity in OBP planning runs. The applied component validity changes will be considered in your planning runs based on the explosion rule set for the PDS.

Planning with component validity is supported by the following OBP planning runs:

Order-Based Planning: Confirmation Run
Order-Based Planning: Constrained Forecast Run
Order-Based Planning: Constrained Forecast Run Using Optimizer

Prerequisite: OpenAPI version for IBP2005
SAP Best Practices for SAP IBP – 2005 Update
Ina Glaes
New scope and changes in V19.2005

• The SAPIBP1 sample planning area offers the optional feature to copy sample analytics and alerts to reduce the manual configuration effort for the Best Practices processes. Web-based planning views are now also supported as content type.

• The new IBP – Integration of planned independent requirements to SAP S/4HANA scope item describes how you can use the pre-delivered CPI-DS template and function module to integrate planning results from SAP IBP back to SAP S/4HANA as planned independent requirements (PIR).

• The IBP - time-series-based inbound integration with SAP S/4HANA scope item has been enhanced with the Actuals Quantity key figure.

• The IBP for demand-driven replenishment scope items have been enhanced with new dashboards and charts for the supply chain analyst, supply chain planner, and supply chain director business roles to provide better visibility of the planning process.

• The IBP for response and supply – deployment planning scope item has been enhanced with a new feature supporting the manual adjustment of the Maximum Stock Transfer Receipts key figure.
IBP - Integration of planned independent requirements to SAP S/4HANA (4NO)

**Testscript 4NO**

1. **Business Conditions**
2. **Define MRP Type X1**
3. **Maintain MRP Type in Material Master**
4. **Introduce Planning Unit of Measure**
5. **Integrate Data from SAP S/4HANA on premise to SAP IBP**
6. **Execute Planning Process in SAP IBP**

**Test Procedures**

1. **Create Datastore (SAP S/4HANA on premise)**
2. **Import Object into Datastore (SAP S/4HANA on premise)**
3. **Create Datastore (SAP IBP)**
4. **Import Object into Datastore (SAP IBP)**
5. **Create Datastore for File**
6. **Import File Formats into the Datastore**
7. **Create System Configuration**
8. **Create Project**
9. **Create Task**
10. **Run Task**
11. **Check Log in CPI-DS**
12. **Check Results in Target SAP S/4HANA on premise**
13. **Monitor Planned Independent Requirement in SAP S/4HANA on premise**
SAP Best Practices for SAP Integrated Business Planning for Supply Chain

Where to get it

http://help.sap.com/ibp

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

Download the following assets:

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

The starter edition in the SAP Store

Link Partneredge Portal
Key Figure Calculations app – Showing Filter Blocks

Gabor Mittweg
Filtering Data

- SAP IBP usually works with huge data volumes.
- To manage performance, queries are typically filtered.
- You can use filters in the IBP Excel Add-In (attribute-based or value-based filters) or in the Planning Filters app.
- When filters are used, all attributes are filtered as early in the calculation chain as possible, ideally on the level of stored key figures.
- Some modeling techniques prevent filtering on the level of stored key figures by imposing filter blocks for certain attributes in certain calculations.
- Filter block is required for these calculations so that they provide correct results at time attribute transformation, at master data transformation and at cross-period calculations.
- Our goal is to display filter blocks in the calculation graphs, so you can get a better understanding of how to filter more effectively and you can improve the performance of your queries.
Example with no Filter Block

- You can view these filter blocks in the Key Figure Calculations app.
- Select a planning area and a key figure, then choose Go to display the calculation graph.
- Choose the Filter Blocks tab and select Show All Attributes from the dropdown to display attributes where filter blocks are raised, as well as attributes where filtering is possible.
- To learn about the details and causes of the filter blocks, click on an attribute for which a filter block exists or display the node info.
- In this example, there are no filter blocks at all, all nodes are green. This is the most effective way of filtering, as all the calculations in the graph can be performed on a filtered set of data.
Example with Filter Block

- In this example, there are several filter blocks, indicated with red nodes.
- There is a direct block for LOCID because of an attribute transformation.
- Consequently, all occurrences of LOCID have an inherited filter block in all the calculations that are below in the calculation graph.
- In these cases, filtering can only happen after the calculations have been performed and on a large amount of unfiltered data.
Manage User Permissions

Unmesh Gandhi
A new Fiori App showing permissions assigned to the business user.

The IBP system administrator can analyze and compare permission objects assigned to the business users. This app provides a user-centric view and helps the IBP system administrator to troubleshoot authorization problems.

Overview Page Features:
- Overview of the permission objects assigned to the business user
- Quick view of the permissions objects

Download:
- Download list of user permissions
- Download detailed permission objects assigned to the users

Customer Influence Requests:
- Customer Influence 214644 (14 votes)
- Customer Influence 228788 (9 votes)
Manage User Permissions

Details Page Features

• Display business roles, user groups, attribute permissions and permission filters assigned to the business user
• Master data attributes and key figures access details
• Analyze the impact of the permission objects on the master data attributes and key figures
• Navigation to the permission objects for detailed analysis
• Download list of permission objects
• Download key figures and master data attribute access reports
Normalization Migration
Andreas Weber
Normalization and Normalization Migration

Normalization

- It is an internal technical change that is the basis for better scalability and performance improvements
  - The data are stored on planning area and planning level
- All customers that started their projects since IBP 1908 automatically use the new normalized mode
- Customers that started prior to IBP 1908 need to be migrated
  - Migration is done by SAP and will require a downtime
- For more information, please check SAP Note 2885767

Roadmap for Normalization Migration

- 2005 pilot phase for normalization migration
- 2008 general availability of normalization migration
- 2011 start of mass migration – expected to last until 2105
Normalization Migration: Preparation

No additional tasks due to normalization migration!
• Some tasks due over next release independent from normalization need to be addressed before migration

Preparation for migration
• Migration itself will be done by SAP after alignment with the customer
• Preparation on customer side:
  • Reactivate planning areas without suppressing errors
  • Housekeeping prior to migration is strongly recommended
    • All planning areas will be migrated
    • Get rid of obsolete planning areas
  • Check “1 million record limit” for time series entries created by loading master data to "Attribute as a Key Figure"
    For details, please check SAP Note 2885814

More information
• Webinar focusing on “Normalization Migration” is scheduled for May 27
Thank you.

**Today’s Presenters from Product Management:**

- alexis.lozada@sap.com – Inventory Optimization
- a.weber@sap.com – Normalization & Migration
- anna.linden@sap.com – IBP Excel Add-In
- atul.bhandari01@sap.com – Demand Driven MRP (DDMRP)
- balazs.buday@sap.com - Model Configuration / Multi-Language
- claus.bosch@sap.com – Order-based Planning
- gabor.mittweg@sap.com - Key Figure Calculations app
- ina.glaes@sap.com - IBP Best Practices
- kenton.harman@sap.com – Intelligent Visibility, Alerts, Analytics, and Dashboards
- mehmet.demirci@sap.com – Demand Sensing
- pramod.mane@sap.com – Time-series based Supply Planning & Web-based Planning UI
- rainer.moritz@sap.com – Demand Planning
- ralf.heimburger@sap.com – Web-based Planning UI
- thomas.fiebig@sap.com – Order-based Planning
- u.gandhi@sap.com – Manage User Permissions app

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