SAP ANALYTICS CLOUD AND BUSINESS PLANNING AND CONSOLIDATION HYBRID SCENARIO

Summary
This document explains an end-to-end Hybrid scenario of SAP Analytics Cloud (SAC) and on-premise SAP Business Planning and Consolidation (BPC). It covers the planning model creation in SAC, data importing from BPC, financial planning in SAC, and exporting planning data from SAC back to BPC.

In this Hybrid scenario, only BPC Standard is currently supported. SAC does not work with BPC Embedded yet. In the context of this document, only BPC Standard is discussed.

In preparation phase, the technical connection between SAC and BPC should be configured. For details on how to setup the technical connection between SAC and BPC system in order to acquire data from on-premise system, please refer to the blog: https://blogs.sap.com/2016/05/11/enable-sap-cloud-for-analytics-for-data-acquistion-from-on-premise-systems/

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Applies to:
SAP Business Planning and Consolidation 10.1 SP11
SAP Analytics Cloud 2017.6.0

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**Scenario:** In this scenario, a financial planning administrator creates a planning model in SAC by importing data from the on-premise BPC system. During the process, planning data from the past years is also acquired from the BPC system to the SAC tenant. Once it is completed, a Financial Planning Analyst (FPA) will update the planning data in the SAC tenant. The updated planning data will be sent back to the BPC system once the planning activity is completed in the SAC.

In our scenario, there is no Budget data for the year 2017 in the demo BPC system initially. This can be shown from the EPM-Plugin of the SAP Analysis for Office (AO). At the end of the scenario, the Budget data of Q1 2017 is planned in SAC tenant and exported to the BPC system.

<p>| A   | B       | C       | D       | E       | F       | G       | H       | I       | J       | K       | L       | M       |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1    |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 2    | United States |     |         |         |         |         |         |         |         |         |         |         |         |
| 3    | Local Currency |     |         |         |         |         |         |         |         |         |         |         |         |
| 4    |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5    | Periodic |     |         |         |         |         |         |         |         |         |         |         |         |
| 6    |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 7    |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 8    |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 9    |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10   | First Person Shooter | 7934.4 | 9120 | 6942.6 | 7980 | 8000 | 9120 | 8926.2 | 10260 | 8180.3664 | 9120 | 8085.1536 | 9120 |
| 11   | Role Playing Game    | 5766.4 | 8480 | 5766.4 | 8480 | 6000 | 8480 | 5766.4 | 8480 | 6688.3032 | 9540 | 6610.4568 | 9540 |
| 12   | Sports              | 7669.2 | 9240 | 9860.4 | 11880 | 10000 | 11880 | 7669.2 | 9240 | 10186.072 | 11880 | 8911.1312 | 10560 |
| 13   | Strategy            | 9106 | 9900 | 8272 | 8800 | 8300 | 8800 | 8272 | 8800 | 7462.378 | 7700 | 7375.522 | 7700 |
| 14   | Education           | 8720 | 10464 | 9810 | 9221.4 | 9900 | 11183.4 | 8720 | 9417.6 | 8990.32 | 9156 | 8885.68 | 8284 |</p>
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</table>
1. In SAC, add the on-premise BPC connection

   a. From the **Main Menu -> Connection -> Add Connection**

   ![Connection Menu](image1)

   b. **Define** the BPC connection with the following information:

      - Name, Description, System Type, Host Name, Port, User ID, and Password

      **Select** SAP BPC for NetWeaver Platform 10.x

      Note: there will be a new connector for BPC 11 in delta mode.

   ![New SAP BPC Connection](image2)
2. In SAC, create the planning model by acquiring data from BPC system

a. **Create** the planning model

   From the (Main Menu) > Create > Model > Use a datasource > SAP BPC

b. **Specify** the model details and preferences

   ![Import Model From SAP BPC](image_url)

   **Source Model**
   - BPC System *
   - BPC_BOC_DEMO

   **Environment** *
   - BPC_2_BOC

   **Model** *
   - Planning

   **Currency Conversion**
   - Currency Conversion Table *
   - Currency_Rates
c. **Set the dimensions and filters** for data import

**Import Model From SAP BPC**

- **Currency Rates**
  - BPC Currency dimension will be excluded and only local currency data will be imported

- **Target Model**
  - **Model Name**:
    - BPC_BOC_DEMO_MODEL

  - **Description**
    - 2016 US Sales by Product Line

- **Planning Enabled**
- **Read only (SAP Business Planning and Consolidation owned)**

**Mapping**

- **Set Mapping**

**Set filters for ACCOUNT**

- **Available Members**
  - Total Sales
  - Third Party Sales
  - Intercompany Sales

- **Selected Members**
  - Third Party Sales

**Version Mapping**

- **SAP BPC Category Members**
- **Target Model Dimensions**
- **Target Model Version**

- **Actual**
  - **Actuals**
  - **Actual**
Similarly, specify the rest of the filters and dimensions.

Set filters for ENTITY

Available Members
- Europe
- North America
  - Canada
  - United States
- United States

Selected Members
- United States

Set filters for TIME

Available Members
- 2014:TOTAL
- 2015:TOTAL
- 2016:TOTAL
- 2017:TOTAL
- 2018:TOTAL

Selected Members
- 2015:TOTAL
- 2016:TOTAL

Mapping

- Select Account Dimension Hierarchy
  - PARENTS

- Dimensions
  - Source Dimension: ACCOUNT
    - Filter Value: Third Party Sales
    - Dimension Name: Account
    - Dimension Type: Account
  - CATEGORY
    - Actual
    - Version
  - ENTITY
    - United States
    - ENTITY_14930034656582
    - Organization
  - PRODLINE
    - All Members
    - Generic
  - PPPCURRENCY
    - Version
  - TIME
    - 2015:TOTAL
    - 2016:TOTAL
    - TIME_14930034656582
    - Time

Click on Map Data button, then Import button.
e. **Import** the model

Click on **Import** to create the model.

f. **Verify** the model

Once the model is created, the **Planning Administrator** can verify the model preferences setting by clicking on the wrench dropdown.
The dimensions are created and master data is imported.
g. **Import** planning data from the BPC system

Click on the **Save** button to start the data importing process for the model.

A confirmation message will display at the bottom of the screen once the importing is completed. At this point, the Planning Administrator has successfully created the planning model based on the information from the BPC system. In addition, a set of planning data from BPC has been imported per the values of filters.
3. Create a story based on the newly imported model from the BPC system

a. The FPA creates a story with the newly created model to work on the planning objectives.

From the Main Menu -> Create -> Model -> Use a datasource -> SAP BPC
Select Datasource

- Existing Model
- No Model
- Import File
- Connect to Google Drive

Name
BPC_BOC_DEMO_MODEL

OK  Cancel
b. Specify the Rows, Columns and corresponding filters
4. Create a forecast for Q1 2017

a. Create a private version of the planning data

In the Version Management, create a private version of the planning data by copying the actuals from the BPC system.

Copy to a private version

Version Name *
Budget_V1

Change currency
Default Currency (USD) ▼

Rate Version
None ▼

OK Cancel

Version management
Now, the FPA has a private version of the planning data (US Third Party Sales) to work on.
b. **Predict** the Budget forecast for Q1 2017

Assume the FPA would like to predict the Budget forecast of the **US Third Party Sales** for Q1 2017.

Click on the Forecast icon.

Specify the time periods for the forecast.

---

**Set Predictive Forecast**

**Context**
All Product Lines - Third Party Sales - Budget_V1

**Forecast By**
Month

**Forecast**

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<tr>
<th>Third Party Sales</th>
<th>All Product Lines</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<td>407,830.00</td>
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<td>First Person Shoo...</td>
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<tr>
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<td>Role Playing Game</td>
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</table>

Use Past Periods From
2015.01

Reference Period
2016.12

Show fewer options
The SAC internal predictive algorithm generates the forecast data of Q1 2017. Take the generated forecast data, for example. Now, assume the FPA completes the planning activity and ready to share the planning data with others.

c. **Publish** the private version

Select the **Version Management** icon from the **Tools** section.
In the Version Management, publish this private version of planning data by select the Save As.
Budget V1 is now a public version which can be used by others.

Notice the Category is Budget; the Type is public and the Version Name is Budget V1.
5. Export the planning date from the SAC tenant to the BPC system

The planner completes the planning work and is ready to export the new planning data back to the BPC system. Browse to find the model. Select the model and click on the Export Data to send the new planning data to the SAP BPC system.

Specify the details for exporting data and click on Set Mapping.
**Set** the filter and dimension mapping.

**ACCOUNT_1493302366582**

Available Members

- Net Income
  - Operating Income
- Gross Margin
- Total Sales
  - Third Party Sales

Selected Members

- Third Party Sales

**Version Mapping**

If you don’t select an SAP BPC member, a mapping to the same FPA member ID will be attempted.

Target Model Version ID | Target Model Dimension Ca. | SAP BPC Category Member
--- | --- | ---
Budget_V1 | Budget | Budget

**Mapping**

Source Dimension | Filter | Target Dimension | Default Value | RPTCURRENCY | Local Currency
--- | --- | --- | --- | --- | ---
ACCOUNT,149... | Third Party Sales | ACCOUNT | | | |
CATEGORY,149... | Budget Budget_V1 | CATEGORY | | | |
ENTITY,149333... | United States | ENTITY | | | |
PRODLINE,149... | All Product Lines | PRODLINE | | | |
TIME,1493302... | 2017 | TIME | | | |

**Map Data**
Finally, click on Export

Export Data To SAP BPC

Source Model
Model Name *
BPC_BOC_DEMO_MODEL

Target Model
Connection Type
SAP BPC for NetWeaver Platform 10.x
BPC System *
BPC_BOC_DEMO

Environment *
BPC_2_BOC

Model *
Planning

Mapping
Set Mapping

A popup message confirms that 15 records have been exported and 0 record has been rejected.
In Analysis for Office, verify the Budget data of 2017 Q1 is updated in the BPC system. At this point, the end-to-end Hybrid planning scenario of BPC and SAC is completed.

Summary: most of us are probably aware of that BPC is the application for enterprise planning and SAC is for departmental planning. This document simply demonstrates a basic Hybrid planning process flow with SAP SAC and BPC. It also shows how SAC and BPC complement each other. Additionally, with SAC, FPA can benefit the power of Planning, BI, Collaboration and Predictive Analytics within one application.