Building block Configuration Guide

CUSTOMER

Commercial Planning: Send CNR impacts from SAP IBP to SAP Analytics Cloud December 2023
English

Commercial Planning: Send CNR impacts from SAP IBP for demand to SAP Analytics Cloud



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1 Prerequisites

The package Commercial Planning contains SAP Analytics Cloud models for Sales and Marketing Planning, as well as corresponding SAP Integration Suite Integration Flows. These Integration Flows read (baseline quantity and impacts) data from IBP, read prices from SAP S/4HANA to write them into SAP Analytics Cloud. There are also Integration Flows to write the (planned drivers and consensus quantities and prices) data from SAP Analytics Cloud to SAP IBP for demand.

The Integration Flow "Send CNR impact from SAP IBP for demand to SAP Analytics Cloud" connects the content package model for Consensus Net Review in SAP Analytic Cloud with SAP IBP for demand. This flow sends sales, marketing impacts and baseline from SAP IBP for demand to SAP Analytics Cloud.

This Integration Flow is a possible implementation approach. But it is necessary to check the individual business needs.

2 Documentation

The Integration Flow reads the combined final demand, sales- and marketing impact from SAP IBP for demand and calculates baseline, sales- and marketing lift. These values are written into the SAP Analytics Cloud model "Consensus Net Revenue" of the content package Commercial Planning.

2.1 Starting the flow

The Integration Flow is stated via API call. Externalized Parameter <SAPHDA_API_ENDPOINT> defines the endpoint. The Externalized Parameter could be defined as /writeCNRibp2sac for example, so that the Integration Flow can be called via the URL that can be found in the CI Monitor section.

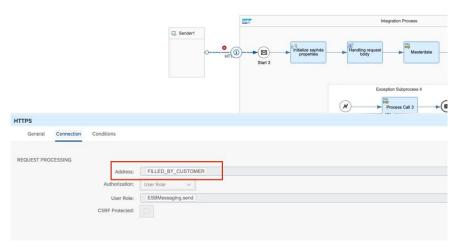


Figure 1 API endpoint definition.

The mandatory payload that is expected to be sent with this call contains the SAP Analytics Cloud model ID only.

The minimum mandatory payload looks like

```
{
    "modelID": "C9t4eu144k59egv8e9eu6uveq3a"
}
```

Additionally, there some optional parameters.

- ChunckSize can be defined as the package size that is read from IBP.
- numberOfProcessingMonth is the property to overwrite the default value of 18 months. The months are added to the current month, means sending a 1 processes two months (current and next one)
- maxLines is an indicator to stop when the number of processed lines exceeds the number of lines defined in maxLines.

An example of a payload containing mandatory and optional properties looks like:

```
{
    "modeIID": "C9t4eu144k59egv8e9eu6uveq3a",
    "chunckSize" : 50,
    "maxLines": 110,
    "numberOfProcessingMonth": 2
}
```

2.2 Reading Master Data

The Integration Flow utilizes the following master data.

- Company Code <-> Sales Organization. This mapping is read from S/4HANA API api_salesorganization_srv/A_SalesOrganization
- Customer <-> Distribution Channel. This mapping is read from the SAP SAC API SAP_ALL_CUSTOMERMaster

2.3 Transformation

The transformation is processed in the method transform of groovy script saphda_logic.groovy. The transformation derives the SAP IBP payload from the SAP Analytics Cloud response.

- SAP Analytics Cloud model is based on Calendar Months (YYYYMM), SAP IBP expects timestamps in the ISO 86011:2019 extended timestamp format (YYYY-MM-DDTHH:MM:SS) or as unix timestamp using json. so this mapping is done in the method
- Sales Organization is mapped based on Customer
- Company Code is mapped based on Sales Organization
- Distribution Channel is mapped based on Customer

The transformation calculates based the IBP key figures COMBINEDFINALDEMAND, SALESSPENDIMPACT MARKETINGSPENDIMPACT three separate lines for the SAP Analytics Cloud model each distinguished by the SAP_SCM_CNR_DriverType dimension.

2.4 Writing into SAP Analytics Cloud

Data is written into SAC using the REST data import API. The first data chuck creates a Job ID which is used to send all data into SAC. After all packages are sent the job is closed and data is committed to SAC.

2.5 Properties of the Integration Flow

All custom properties used in this Integration Flow are declared in the content modifier "initialize saphda properties".

3 Configuration steps on SAP Cloud Integration

3.1 Configure Receiver Adapter

Receivers are connecting SAP Analytics Cloud, SAP IBP for Demand, SAP S/4HANA. If the flow should be used without adjustments, it is necessary to have the Content Packages Commercial Planning for SAP Analytics Cloud installed. In all systems user and authorizations needs to be granted. For using the master data mapping as they are built by delivery, also a S/4HANA system, user and access needs to be available. Please refer to the relevant documentation.

The following configuration is necessary.

- Credential Artifacts
 - $\circ\quad$ SAP Analytics Cloud with the credentials of an App Integration oAuth authorization.

Externalized Parameter <SAPHDA_SAC_CREDENTIAL> o

IBP for Demand with IBP External Planning

Data Integration Communication Scenario SAP_COM_0720.

Externalized Parameter <SAPHDA_IBP_CREDENTIAL> \circ

S/4HANA Scenario SAP_COM_0087

Externalized Parameter <SAPHDA_S4_CREDENTIAL>

- URLs for the Systems o SAP Analytics Cloud

Externalized Parameter <SAPHDA_SAC_URL> Example:

https://host.cloud.sap/api/v1/dataimport/ Be aware that the

URL ends with a slash. ○ IBP for Demand

Externalized Parameter <SAPHDA_IBP_URL>

Example: https://host.com/sap/opu/odata/IBP/PLANNING_DATA_API_SRV/<planningareaname> Be aware that there is no slash at the end of the URL.

S/4HANA
 Externalized Parameter <SAPHDA_S4_URL> Example:
 https://host.com/sap/opu/odata/sap/ Be aware that
 the URL end with a slash.

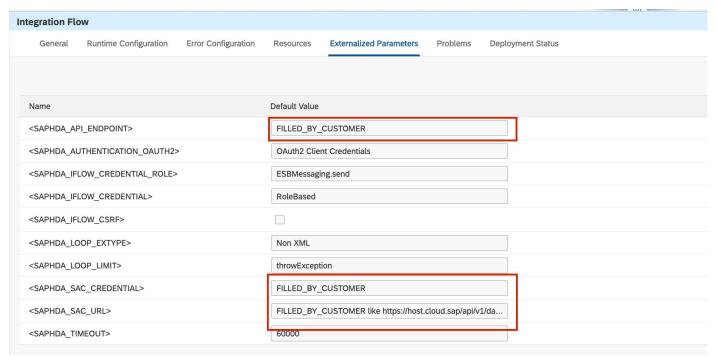


Figure 2 Configuration of the Externalized Parameter, like the SAC URL