Building block Configuration Guide

CUSTOMER

Commercial Planning: Send CNR Prices and Quantities from SAP Analytics Cloud to SAP IBP for demand

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English

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Content

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 prices and quantities from SAP Analytics Cloud to SAP IBP for demand” connects the content package model for Consensus Net Review in SAP Analytic Cloud with SAP IBP for demand. This flow sends prices and quantities from SAP Analytics Cloud to SAP IBP for demand.

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

2 Documentation

The Integration Flow reads prices and quantities from the SAP Analytics Cloud model “Consensus Net Revenue” of the content package Commercial Planning with the SAC Data Export Service, maps and prepares the payload for IBP for demand and sends the data to SAP IBP for demand.

The Integration Flow does read the data in chunks via $top/$skip from SAP Analytics Cloud. These chunks are processed and written into IBP sequentially.

2.1 Starting the flow

The Integration Flow is stated via API call. Externalized Parameter <SAPHDA_API_ENDPOINT>. The Externalized Parameter could be defined as /writeCNRsac2ibp for example, so that the Integration Flow can be called via the URL that can be found in the CI Monitor section.

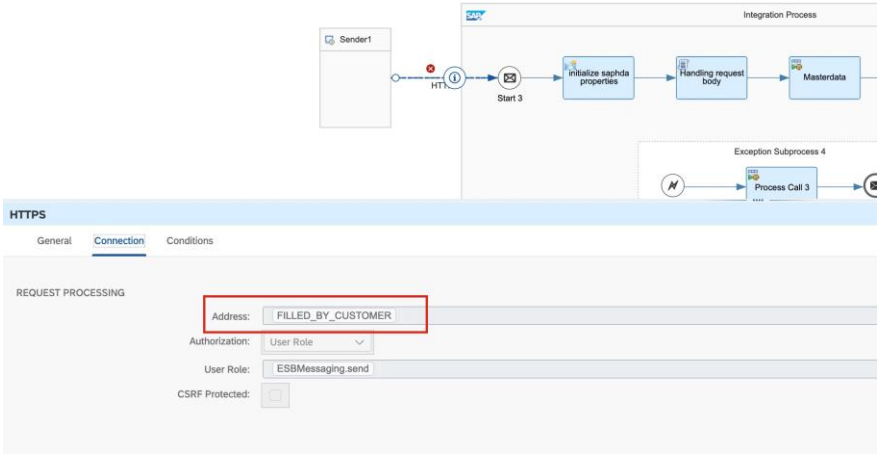

Figure 1 API endpoint definition

The mandatory payload that is expected to be sent with this call contains the SAP Analytics Cloud model ID and a property that serves as identifier if prices or quantities should be loaded. This identifier is called "load_price" : "true" for prices and "load_quantity" : "true" for quantities.

The minimum mandatory payload looks like

```
{
  "modelID": "C9t4eu144k59egv8e9eu6uveq3a",
  "load_price" : "true"
}
```

Or

```
{
  "modelID": "C9t4eu144k59egv8e9eu6uveq3a",
  "load_quantity" : "true"
}
```

Additionally, there some optional parameters.

- ChunckSize can be defined as the package size that is read from SAP Analytics Cloud.

- 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:

```
{
  "modelID": "C9t4eu144k59egv8e9eu6uveq3a",
  "load_price" : "true",
  "chunckSize" : 50,
  "maxLines": 110,
  "numberOfProcessingMonth": 2
}
```

2.2 Reading Master Data

The Integration Flow utilizes the following master data

- Company Code <-> Currency. This mapping is read from the SAP SAC API SAP_ALL_COMPANY_CODEMaster

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 SAC response.

- SAP Analytics Cloud model is based on Calendar Months (YYYYMM), SAP IBP is 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
- For Prices the currency is mapped to the payload based on the Company Code read from SAC

2.4 Writing into SAP IBP for demand

Data is written into IBP using the separate integration flow that uses the odata API /sap/opu/odata/ibp/planning_data_api_srv. This integration is descripted in its own document.

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 and 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. Please refer to the relevant documentation.

The following configuration is necessary

- Two Credential Artifacts
  - SAP Analytics Cloud with the credentials of an App Integration oAuth authorization.

Externalized Parameter <SAPHDA_SAC_CREDENTIAL> ○ IBP for Demand with IBP External Planning Data Integration Communication Scenario SAP_COM_0720. Exchange Property: saphda_ibp_credential

- URLs for the Systems ○ SAP Analytics Cloud
  Externalized Parameter <SAPHDA_SAC_URL>
  Example: https://host.cloud.sap/api/v1/dataexport/providers/sac/
  Be aware that the URL ends with a slash ○
  IBP for Demand
  Exchange Property: saphda_ibp_url
  Example: https://host.ondemand.com
  Be aware that there is no slash at the end of the URL
- Planning Area for IBP on demand ○ Exchange Property: saphda_ibp_planningarea

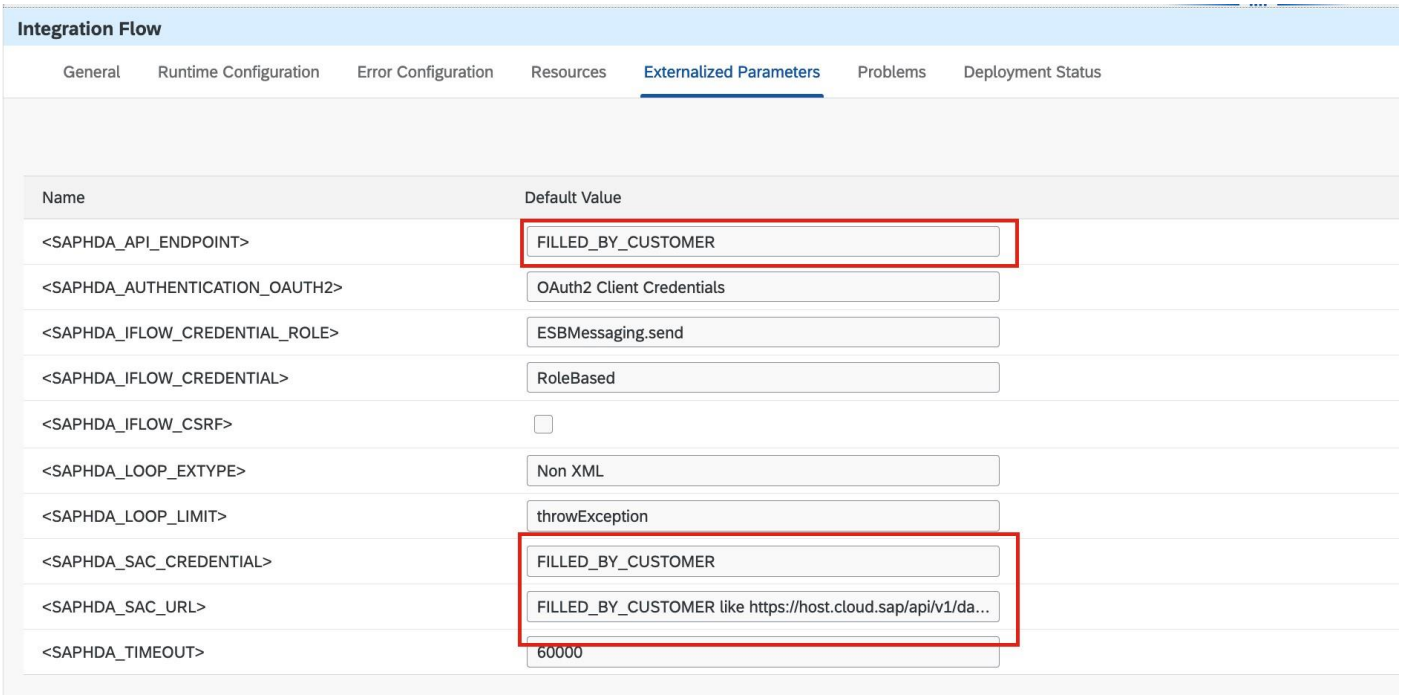

Figure 2 Configuration of the Externalized Parameter, like the SAC URL