Building block Configuration Guide

CUSTOMER

Send SAP Analytics Cloud Sales model drivers to SAP Integrated Business Planning for Demand

May 2023

English

Send SAP Analytics Cloud Sales model drivers to SAP Integrated Business Planning for Demand

Content

1 Prerequisites

The Integration Flow “Commercial Planning Send SAP Analytics Cloud Sales model drivers to SAP Integrated Business Planning for Demand” connectes the content package model for Sales Planning in SAP Analytic Cloud with SAP SAP Integrated Business Planning (IBP) for Demand. This flow sends the planned drivers from SAC into SAP IBP. There is also an Integration Flow available to read baseline quantites from SAP IBP to send them into SAC.

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

2 Documentation

The flow reads fact data from SAP Analytics Cloud model, transforms the data and writes the data into IBP for demand. To minimize the memory footprint, a semantical partitioning on the timestamp is used. Data is read month by month, transformed month by month and written into IBP month by month. As the data is potencially aggregated, it is relevant to have all QUANITY values for each property combination (each package, means each month) send to IBP in one loop.

2.1 Starting the flow

The Integration Flow is stated via API call. Externalized Parameter <SAPHDA_API_ENDPOINT>

The payload that is expected to be sent with this call contains the SAP Analytics Cloud model ID, a date from when data is read as well as the time horizon that should be exported (calmonthFrom and calmonthTo are included int the boundaries).

An example payload looks like:

```
{
  "modelID": "Cepk9k03peaigaeka98s7gqb32q",
  "calmonthFrom" : "202309",
  "calmonthTo" : "202402"
}
```

2.2 Reading data from SAP Analytics Cloud

Fact data is read from SAP Analytic Cloud via oData API with the query filter stored in property saphda_queryParameters.

By delivery the configuration is set to

- Version = public.Plan
- SAP_ALL_PLANT = #
- SAP_FI_XPA_GLAccount = 44001000 or 44002000
- Date = is filled automatically

2.3 Transformation

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

- Aggregates the QUANTITY. The SAP Analytics Cloud API does not allow a selection query, all properties are selected, also the ones not necessary to send to IBP. Over these properties the QUANTITY is aggregaed.
- The SAP Analytics Cloud model is based on Calender Weeks (YYYYMM), IBP on Demand expects an ISO 8601-1:2019 extended timestamp format (YYYY-MM-DDTHH:MM:SS), so this mapping is done in the method as well
- Currency is added
- The Customer, SAP IBP for Demand field CUSTID, needs to be alphaconverted with leading zeros.

2.4 Writing into IBP

Writing into IBP is done as separate flow via process direct call.

2.5 Properties of the Integration Flow

All custom properties used in this Integration Flow are declard in the content modifier “initialize saphda properties”. But the property saphda_queryParameters needs to be refreshed in each loop, which happens in the content modifier “Refresh saphda properties”. So the odata filter for IBP needs to be customized identically in these two content modifier.

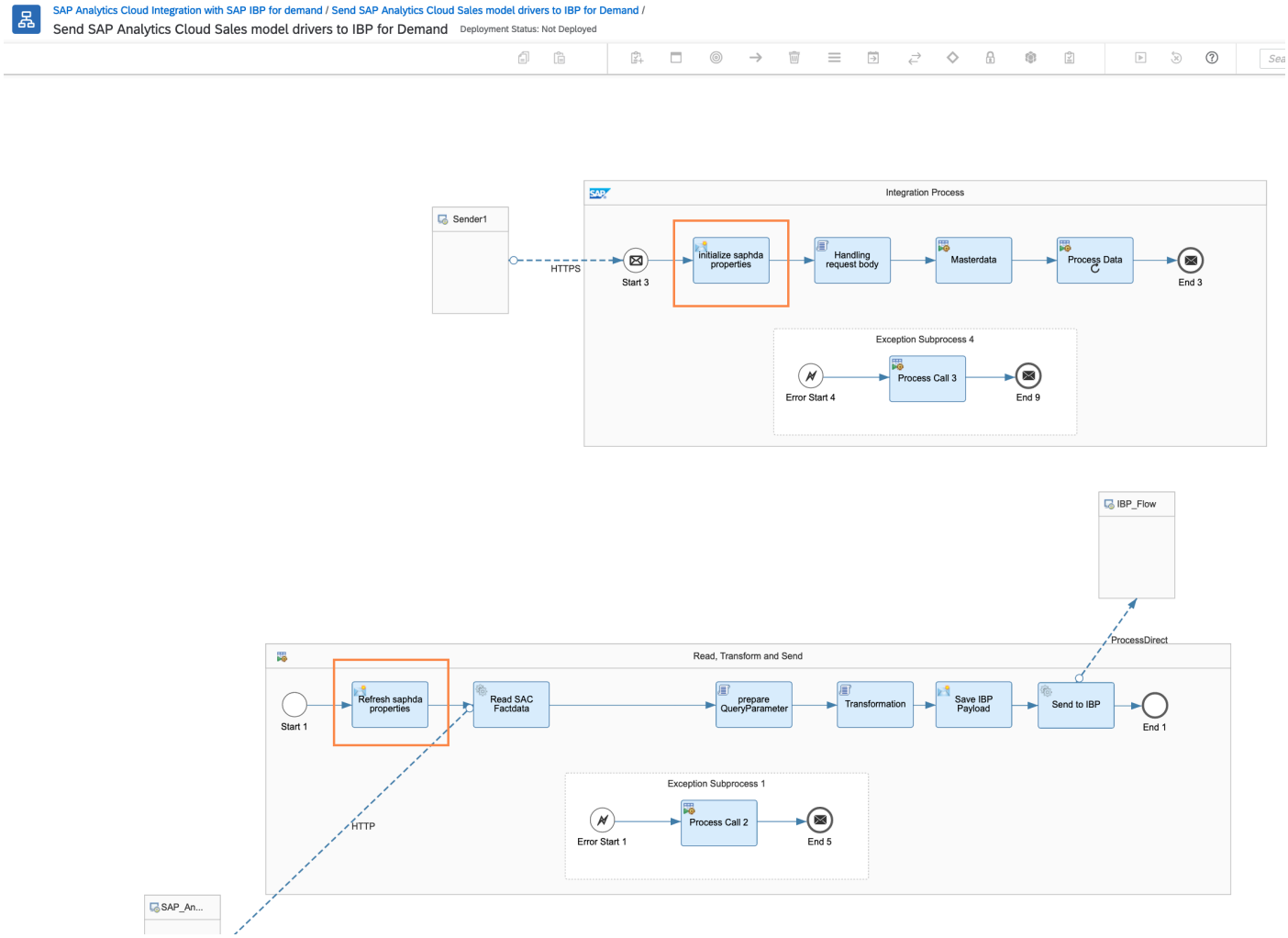

Figure 1 the property saphda_queryParameters needs to be adjusted in the red marked content modifier

3 Configuration steps on SAP Cloud Integration

3.1 Configure Receiver Adater

Receivers are connecting SAP Analytics Cloud and SAP IBP for Demand. If the flow should be used without adjustments, it is necessary to have the Content Packages for SAP Analytics Clould installed. In both systems user and authorizations need to granted. Please refer to the the relevant documentation.

The following configuration is necessary

- Two Credential Artifacts
    - SAP Analaytics Cloud with the credentials of an App Integratioin oAuth authorization.
      Externalized Parameter <SAPHDA_SAC_CREDENTIAL>
    - IBP for Demand with IBP External Planning Data Integration Communication Szenario SAP_COM_0720.
      Exchange Property: saphda_ibp_credential
- URLs for the two Systems
    - SAP Analaytics Cloud
      Externalized Parameter <SAPHDA_SAC_URL>
    - IBP for Demand
      Exchange Property: saphda_ibp_url
- Planning Area for IBP on demand
    - Exchange Property: saphda_ibp_planningarea