

Building block Configuration Guide

CUSTOMER

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

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Content

1 Prerequisites	4
2 Documentation	5
2.1 Starting the flow	5
2.2 Reading data from SAP Analytics Cloud	5
2.3 Transformation	5
2.4 Writing into IBP	6
2.5 Properties of the iflow	6
3 Configuration steps on SAP Cloud Integration	7
3.1 Configure Receiver Adapter	7

1 Prerequisites

The Integration Flow “SAP Analytics Cloud Integration with SAP Integrated Business Planning for demand” connects the content package model for Marketing Planning in SAP Analytic Cloud with SAP Integrated Business Planning (SAP IBP) for Demand. This flow sends the (planned drivers) data from SAC into SAP IBP. There is also an Integration Flow available to read (baseline quantites) data 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 SAP IBP for demand. To minimize the memory footprint, a semantical partitioning on the timestamp is used. So data is read month by month, transformed month by month and written into IBP month by month. As the data is aggregated, it is relevant to have all QUANTITY values for each property combination send to SAP IBP in one loop.

2.1 Starting the flow

The iFlow is started 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 in 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 Analytics Cloud via oData API with the query filter stored in property saphda_queryParameters_calculated.

By delivery the configuration is set to

- Version = public.Plan
- SAP_FI_XPA_GLAcount = 65301000
- 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, so all properties are selected, also the ones not necessary to send to IBP. Over these properties the QUANTITY is aggregated
- The SAP Analytics Cloud model is based on Calendar 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
- Country and Currency is added

By default the following fields are sent to IBP

- Period Month: PERIODID3_TSTAMP
- Product: PRDID
- Customer Country: CUSTCOUNTRY
- Currency: CURRID
- Driver Quantity: MARKETINGBUDGETSAC

If different fields should be sent to SAP IBP for demand, also the method transform of groovy script saphda_logic.groovy needs to be adjusted.

2.4 Writing into IBP

Writing into IBP is done as separate flow via process direct call. All customizing is done via exchange properties in this Marketing Integration Flow.

- IBP hostname: saphda_ibp_url
- credentialsName: saphda_ipb_credential
- planningArea: saphda_ibp_planningarea

2.5 Properties of the iflow

All custom properties used in this iFlow are declared 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.

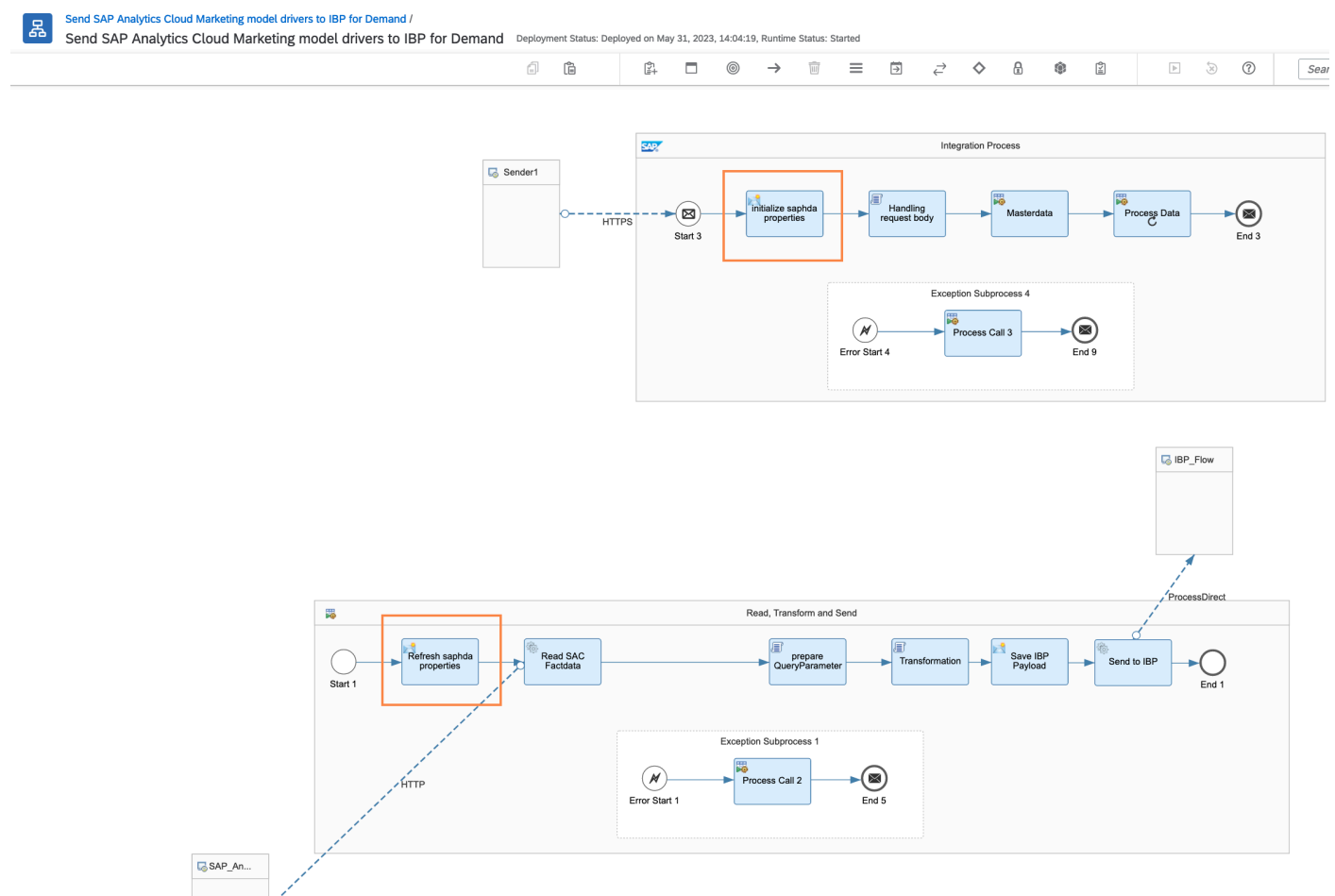


Figure 1 the odata filter reading data from SAC needs to be adjusted in the red highlighted boxes

3 Configuration steps on SAP Cloud Integration

3.1 Configure Receiver Adapter

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 Cloud installed, as well as IBP... SP/Version. In both systems user and authorizations need to be granted. Please refer to the relevant documentation.

The following configuration is necessary

- Two Credential Artifacts
 - o 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.
Exchange Property: saphda_ibp_credential
- URLs for the two Systems
 - o SAP Analytics Cloud
Externalized Parameter <SAPHDA_SAC_URL>
 - o IBP for Demand
Exchange Property: saphda_ibp_url
- Planning Area for IBP on demand
 - o Exchange Property: saphda_ibp_planningarea