Building block Configuration Guide
Commercial Planning Send SAP S/4HANA actuals to
Integrated Business Planning for Demand
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English

CUSTOMER

Commercial Planning Send SAP S/4HANA actuals to SAP Integrated Business Planning for Demand

Content

1 Prerequisites

The package Commercial Planning contains SAP Analaytic Cloud models for Sales and Marketing Planning, as well as corresponding SAP Integration Suite Integration Flows.

These Integration Flows read (base forcast quantity) data from SAP IBP for Demand, read prices from SAP S/4HANA to write them into SAP Analaytic Cloud. There are also Integration Flows to write the (planned drivers) data back - from SAP Analaytic Cloud to SAP IBP for demand.

In preparation to calculate the base forcast quantity within SAP IBP for Demand, actuals are send send from S/4HANA to IBP. The Integration Flow “Send SAP S/4HANA actuals to Integrated Business Planning for Demand” does send these actuals. The Flow would need to run at the beginning of all the flows contained in the package Commercial Planning.

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

2 Documentation

The Integration Flow reads actuals from the S/4HANA Service “Journal Entry Item - Read” (API_JOURNALENTRYITEMBASIC_SRV), transforms the data and writes the data into SAP IBP for Demand.

2.1 Starting and configure/parametrize the flow

The Integration Flow is stated via Timer in the SAP Integration Suite.

The configuration can be destingushed between dynamic parametrization and static configuration.

The content modifier “Initialize saphda properties” contains exchange properties that need to be adjusted towards the landscape the flow should run in. The following properties need to be adjusted:

- saphda_ipb_credential – IBP credential name maintained in the CI Security Material
- saphda_ibp_url – the IBP system URL
- saphda_ibp_planningarea – the IBP planning area name

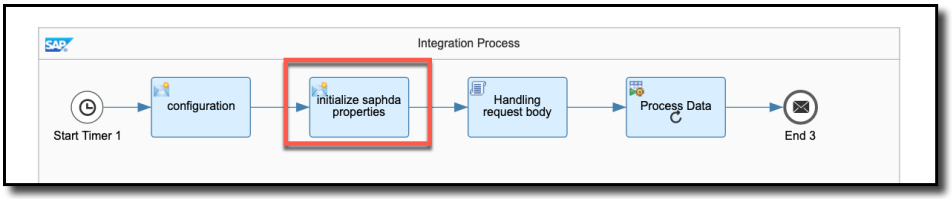

Figure 1 configuration is done in the content modifier in second step of the flow

The flow needs mandatory parametrization for the time frame that should be processed (calmonthFrom and calmonthTo are included int the boundaries). The parametrization is done in the first step of the Integration Flow called “configuration”. It is done in JSON format, to support a conversion of the start event from Timer to API call more easily.

The parameter saphda_chunck is optional and can be used to customize the $top/$skip package size.

An example payload looks like:

```
{
  "calmonthFrom" : "010/2021",
  "calmonthTo" : "012/2023",
  "saphda_chunck" : "50"
}
```

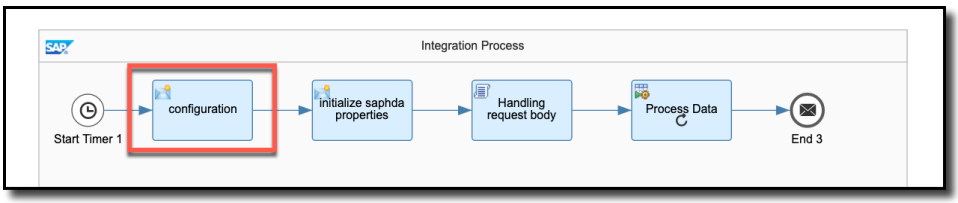

Figure 2 parametrization is done in the first step of the flow

2.2 Reading data from SAP S/4HANA

Actuals are read form SAP S/4HANA via the OData Service API_JOURNALENTRYITEMBASIC_SRV /get_A_JournalEntryItemBasic which reads the universal journal entry items available in your system.

By delivery the select is to configured to

- AmountInCompanyCodeCurrency
- CompanyCodeCurrency
- Customer
- SoldMaterial
- FiscalYearPeriod

The filter is set to

- Ledger eq '0L' and FiscalYearPeriod ge '${property.saphda_calmonth_from}' and FiscalYearPeriod le '${property.saphda_calmonth_to}' and (GLAccount eq '41003000' or GLAccount eq '44000000' or GLAccount eq '44001000' or GLAccount eq '44002000' or GLAccount eq '44002100' or GLAccount eq '44002200' or GLAccount eq '44003000' or GLAccount eq '44003100' or GLAccount eq '44003200' or GLAccount eq '44004000' or GLAccount eq '44005000' or GLAccount eq '44006000' or GLAccount eq '44405600' or GLAccount eq '44910000' or GLAccount eq '44940000' or GLAccount eq '44970000' or GLAccount eq '59801000' or GLAccount eq '65301000')

Transformation

The transformation is processed in the method transform of groovy script saphda_logic.groovy. The transformation derives the SAP IBP for demand from the SAP S/4HANA response.

- SAP S/4HANA sends the FicalYearPeriod in the format MM/YYYY which needs to be transformed to ISO 8601-1:2019 extended timestamp format (YYYY-MM-DDTHH:MM:SS) for SAP IBP.

2.3 Writing into SAP IBP for demand

Data is written into SAP IBP via ODATA. The write API is described in the documentation of the flow “Write to SAP IBP for Demand using oData” which is called via ProcessDirect.

2.4 Properties of the Integration Flow

All custom properties used in this Integration Flow are declard in the content modifier “initialize saphda properties”.

3 Configuration steps on SAP Cloud Integration

3.1 Configure Receiver Adater

A Receiver connects SAP S/4HANA with the flow. In this systems user and authorizations need to granted. Please refer to the the relevant documentation.

The following configuration is necessary in this flow

- Credential Artifacts
  - S/4HANA
    Externalized Parameter <SAPHDA_S4_CREDENTIAL>
- URLs for the two Systems
  - S/4HANA
    Externalized Parameter <SAPHDA_S4_URL>

It is necessary to have the flow “Write to SAP IBP for Demand using oData” of the Content Packages Commercial Planning deployed.