

## **Building Block & Configuration Guide – Customer**

Send Concur Expense Data to SAP Datasphere

August 2024

English

- 1. Deploy Expense DDS Hana Database Artifacts to Datasphere**
- 2. SAP Concur Expense DDS Integration with SAP Datasphere**

# Prerequisites

The following are the prerequisites to use this integration flow:

1. Subscription to Concur Data Delivery Service.
2. SFTP access to SAP Concur
3. Datasphere Tenant

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Important Note : Please create all the required Configuration in your Integration Tenant and enter the created credentials appropriately as configured values before deploying the flow.

# Configuration Steps on SAP Cloud Integration

## Configure Sender Adapter:

Configure "Expense DDS from SAP Concur to SAP Datasphere"

**Sender** Receiver More

**Source**

Sender: Concur\_Sftp

Adapter Type: SFTP

Address: <Enter Sftp host address>

User Name: <Enter Concur Entity id>

Private Key Alias: <Enter SSH key alias from the Tenant>

**Processing**

Schedule:  Schedule on Day  Schedule to Recur

Schedule to Recur: Daily

On Time 10:48 AM

Every 1 min Between 00:00 and 24:00

Time Zone: ( UTC 5:30 ) India Standard Time(Asia/Calcutta)

- Click on Configure button on the flow and enter the valid credentials for Sender adapter before deploying it.
- Concur SFTP address will be shared when subscribed to Data Delivery Service.
- For detail steps on creating SSH key pair refer the documentation in the package.

# Configure Receiver Adapter

## Configure "Expense DDS from SAP Concur to SAP Datasphere"

Sender **Receiver** More

Receiver: Datasphere\_Sp

Adapter Type: JDBC

### Connection

JDBC Data Source Alias: <Enter JDBC Material Name>

## Configure "Expense DDS from SAP Concur to SAP Datasphere"

Sender Receiver **More**

Type: All Parameters

PGP key alias: <Enter PGP key alias>

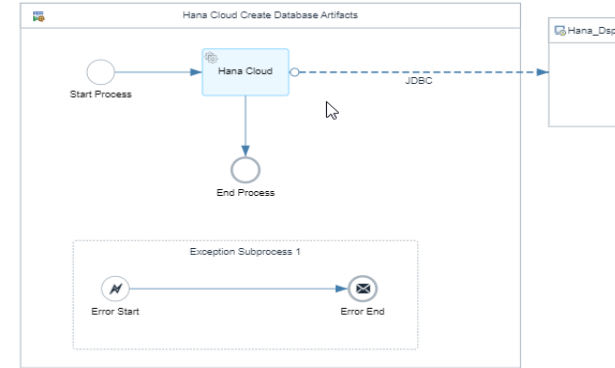
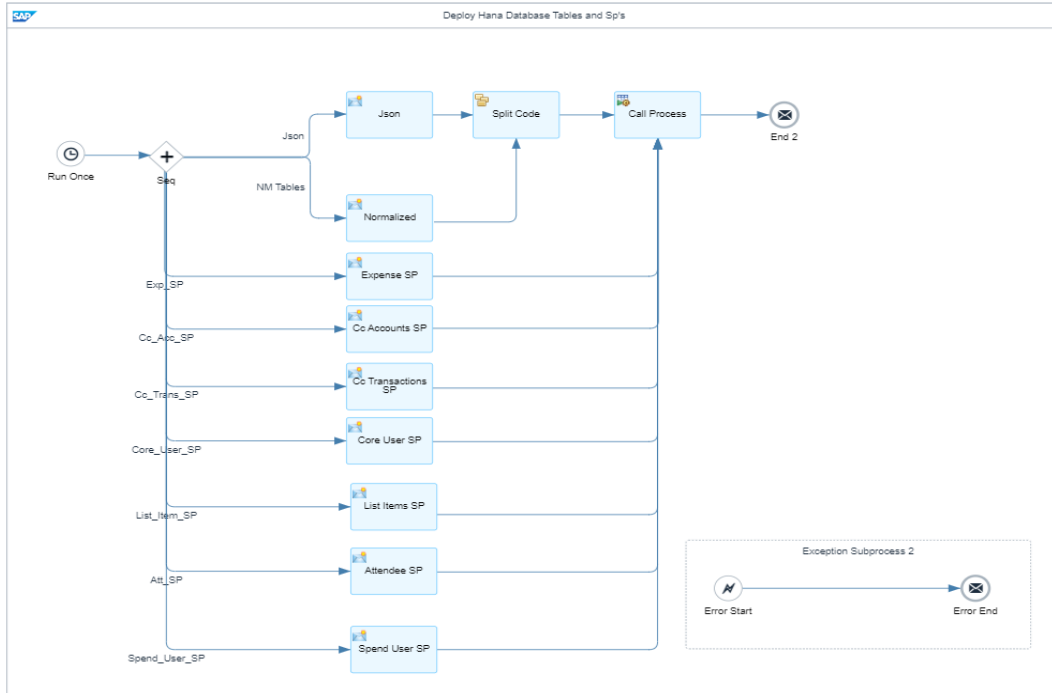
- Create JDBC material in Integration Suite tenant with the Valid credentials and enter the connection name.
- Make sure to whitelist the Integration suite tenant Ip's in Datasphere tenant for successful connection.
- For detail steps on creating JDBC material and whitelist Ip's for integration tenant cloud foundry in Datasphere refer the documentation in the package.

# 1. Deploy Expense DDS Hana Database Artifacts to Datasphere

INTERNAL – SAP and Partners Only



# Flow Design



- Creates Json and Normalized Tables and Stored Procedures.
- The flow should only run once and can be undeployed once the database artifacts are created.
- Double check in the database if the required artifacts are created and following which kick off the Main flow for data ingestion.

## **2. SAP Concur Expense DDS Integration with SAP Datasphere**

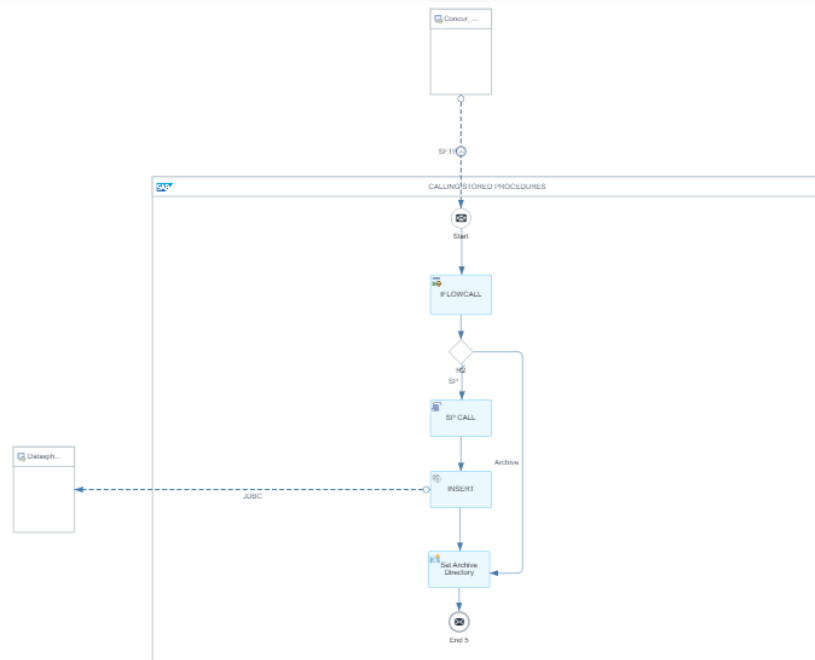
INTERNAL – SAP and Partners Only





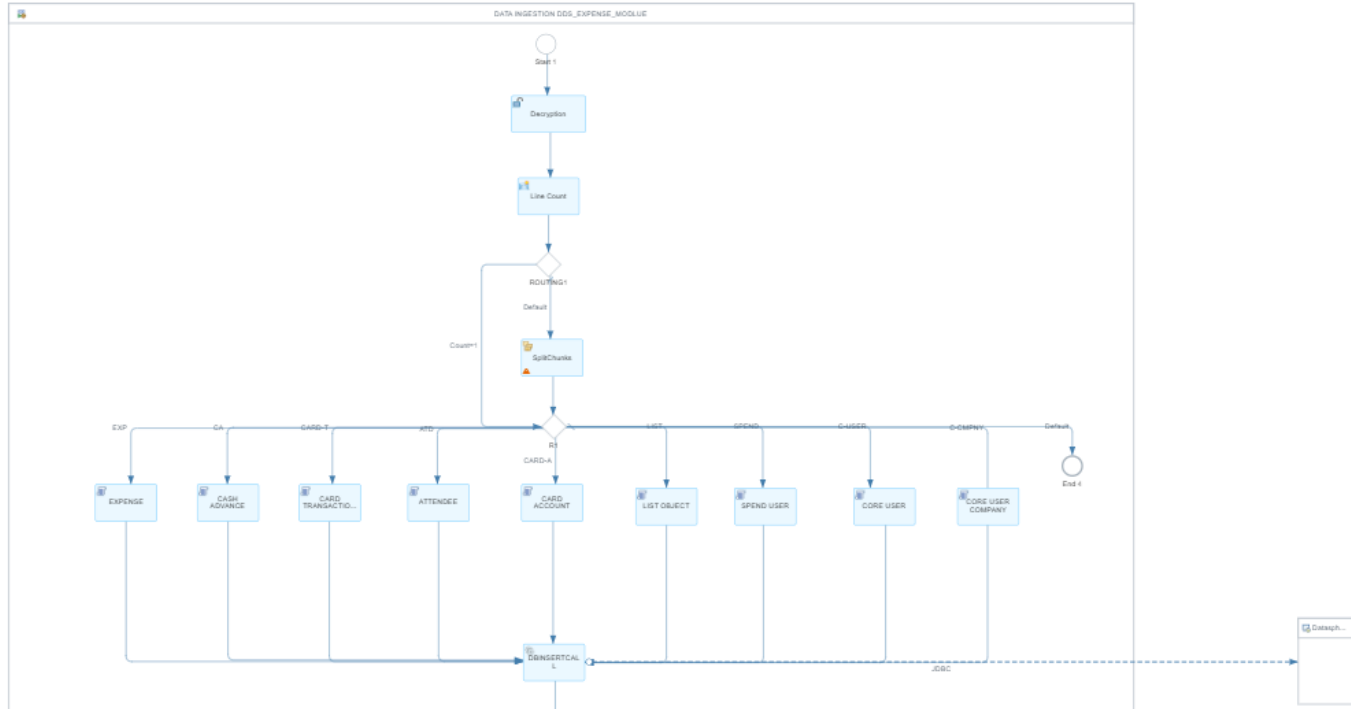
# Flow Design

## 1. Main Integration Process :



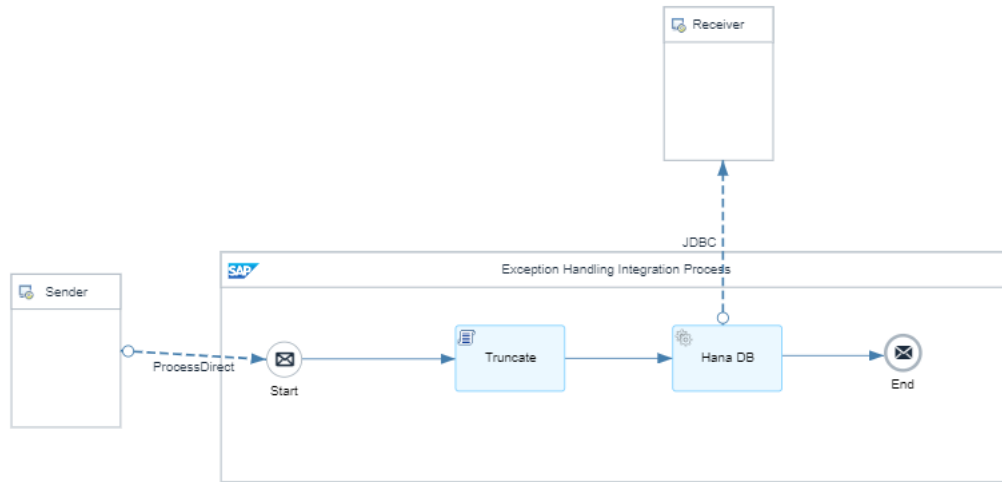
- Poll DDS files from Concur Sftp server out folder.
- Calls the location integration process.
- Triggers the Stored procedure call to Hana cloud based on the File name.

## 2. Local Integration Process :



- Decrypt the DDS File.
- Define property to capture file name for routing.
- Split the large Payload into smaller junks.
- Insert each Json objects to its corresponding Hana Table. Routing to each block based on Object file names.

### 3. Exception Handling Integration Process :



- Main flow and the exception handling flow must be deployed together.
- It is important to config this flow with JBDC material and deploy.
- In case of an exception, inserted records are truncated for the batch that got failed to ensure data integrity in the HANA table.
- Error files are transferred to the 'DDS Error Files' folder on Concur SFTP incase of processing failure to debug the file.