

SAP Analytics Cloud Integration with SAP SuccessFactors Position Write Back Outbound Flow

Configuration Guide

Document History

[illegible]

Introduction

This document provides an overview of the artifacts delivered as part of SAP Analytics Cloud integration with SAP SuccessFactors Position write back Integration using Integration Suite.

This document discussed some of the common configuration steps first which are needed across all the scenarios and then give a detailed configuration of individual iFlows

Integration Overview

This guide is intended for Professional Services and SAP or partner consultants to integration SAP SAC With SAP SuccessFactors Employee Central (EC). Integration is through an SAP Cloud Integration available with in Integration Suite on BTP

Integration Options

Before you start the integration, determine your business requirements. It is recommended that you follow the steps mentioned below to successfully integrate SAP SAC with SuccessFactors Employee Central.

Use the following steps as a guideline to successfully integrate SAP SAC with SuccessFactors Employee Central. This is a simplified approach to a possible integration process. Identify the customer's business requirements, based on the requirements the integration process can be adjusted.

Business Process

The Integration process is available in Discover Spaces of the SAP Cloud Integration. Copy the Integration from Discover Space to Design Space and enhance the integration to match the business requirement.

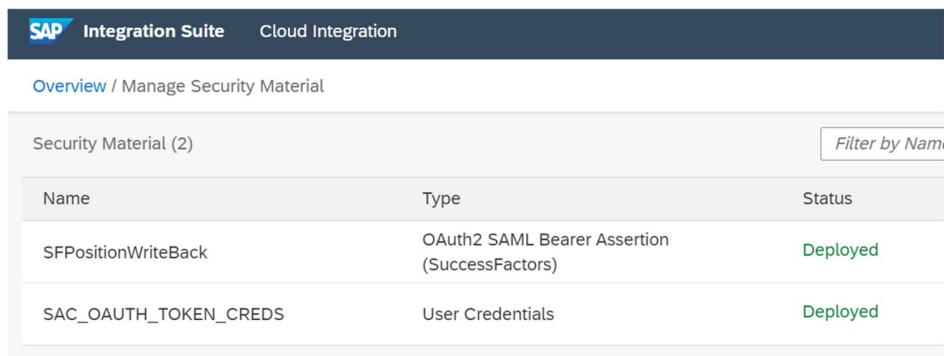
The integration is designed to extract the Planned positions from the SAP SAC via API using OAuth Authentication mechanism and Invoke the SuccessFactors Employee Central using Odata API to Create the Position.

Common Steps

SAP Credential Deployment

For setting up the authentication against SFSF and the SAC you will need to create two credential artifacts (Overview -> Manage -> Security -> Security Material)

1. SFSF EC Credentials: These Credentials will be used to authenticate against the SFSF EC System (standard named used in the workflow: *SFPositionWriteBack*)
2. SAP SAC Credentials: These credentials will be used to authenticate against the SAP Analytics Cloud system. (artifact standard name used in the workflow: *SAC_OAUTH_TOKEN_CREDS*)



The screenshot shows the SAP Integration Suite Cloud Integration interface. At the top, there is a dark blue header with the SAP logo and the text 'Integration Suite' and 'Cloud Integration'. Below the header, there is a breadcrumb trail: 'Overview / Manage Security Material'. The main content area displays a table titled 'Security Material (2)' with a 'Filter by Name' button. The table has three columns: 'Name', 'Type', and 'Status'. There are two rows of data:

| Name | Type | Status |
|-----------------------|---|----------|
| SFPositionWriteBack | OAuth2 SAML Bearer Assertion (SuccessFactors) | Deployed |
| SAC_OAUTH_TOKEN_CREDS | User Credentials | Deployed |

SFSF EC Credentials

Please refer to this blog on how to set up the OAuth2 SAML Bearer Authentication

[SAP Cloud Integration – OAuth2 SAML Bearer/X.509 Certificate Authentication Support in SuccessFactors Connector](#) | [SAP Blogs](#)

Edit OAuth2 Credentials

| | |
|----------------------|--|
| Name: * | <input type="text" value="SFPositionWriteBack"/> |
| Grant Type: | <input type="text" value="OAuth2SAMLBearerAssertion"/> |
| Description: | <input type="text"/> |
| Audience: * | <input type="text" value="www.successfactors.com"/> |
| Client Key: * | <input type="text" value="Your SF API Key"/> |
| Token Service URL: * | <input type="text"/> |
| Target System Type: | <input type="text" value="SuccessFactors"/> |
| Company ID: * | <input type="text" value="Your SF Company ID"/> |
| User ID: | <input type="text" value="Key Pair Common Name (CN)"/> |
| Key Pair Alias: * | <input type="text" value="salesdemo_cplicert"/> |

Name of the key pair created

Deploy Cancel

SAP SAC Credentials

Please refer to this [blog](#) on how to set up the authentication against the SAC Export API

[Using the SAC Data Export API with Data Warehouse Cloud and Data Intelligence](#) | [SAP Blogs](#)

Edit User Credentials

| | |
|------------------|--|
| Name: * | <input type="text" value="SAC_OAUTH_TOKEN_CREDS"/> |
| Description: | <input type="text"/> |
| Type: * | <input type="text" value="User Credentials"/> |
| User: * | <input type="text" value="SAC OAuth Client ID"/> |
| Password: | <input type="text" value="SAC Secret"/> |
| Repeat Password: | <input type="text" value="SAC Secret"/> |

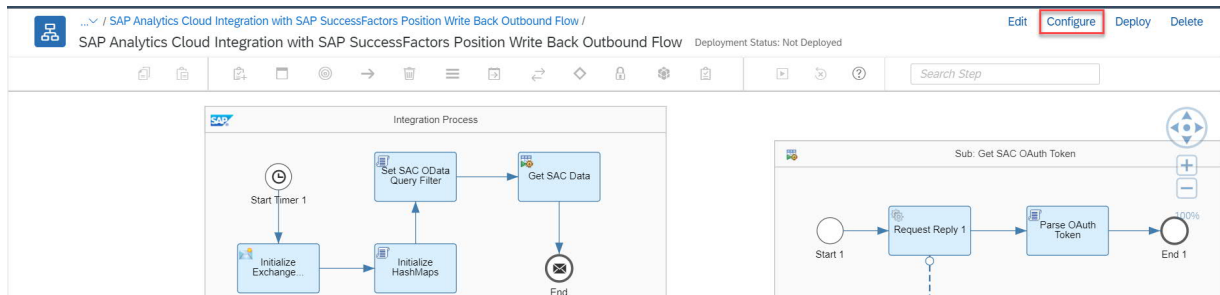
Deploy Cancel

SAP Analytics Cloud Integration with SAP SuccessFactors Position Write Back Outbound Flow

The following screens explain the steps needed to configure the SAP SAC to SAP SuccessFactors position write Integration iFlow before deploying on the customer landscape.

Configure the workflow receivers

To configure the workflow, you must click “Configure” in the top-right corner.



Then go to the Receiver tab.

The screenshot displays the "Receiver" tab configuration in the SAP Analytics Cloud Integration workflow editor. The top bar shows the workflow name: "SAP Analytics Cloud Integration with SAP SuccessFactors Position Write Back Outbound Flow". The deployment status is "Not Deployed". The top-right corner has buttons for "Edit", "Configure" (highlighted with a red box), "Deploy", and "Delete". Below the top bar is a toolbar with various icons for workflow manipulation. The main area shows the "Receiver" configuration for the "Start Timer 1 [StartEvent_4]" timer. The configuration options are: "Run Once" (selected), "Schedule on Day", and "Schedule to Recur". The bottom right corner has buttons for "Save", "Deploy", and "Close".

And then select each of the 3 included receivers using the first drop-down.

The screenshot shows the 'Receiver' tab in the SAP SAC configuration interface. The 'Receiver' dropdown is highlighted with a red box and contains the value 'SAC_Export'. Below it, the 'Adapter Type' is set to 'HTTP'. The 'Connection' section includes the following fields: 'Address' (https://<SAC BaseURL>/providers/<namespaceID>/<providerID>/FactData), 'Method' (GET), 'Authentication' (None), 'Timeout (in ms)' (60000), and 'Throw Exception On Failure' (checked). At the bottom right, there are buttons for 'Save', 'Deploy', and 'Close'.

In the following section we will walk through the settings for each of the three receivers.

Receiver 1: SAC_Export

This receiver helps you connect to the SAP SAC system to export the newly planned positions.

The screenshot shows the 'Receiver' tab in the SAP SAC configuration interface. The 'Receiver' dropdown is set to 'SAC_Export'. The 'Adapter Type' is set to 'HTTP'. The 'Connection' section includes the following fields: 'Address' (highlighted with a red box), 'Method' (GET), 'Authentication' (None), 'Timeout (in ms)' (60000), and 'Throw Exception On Failure' (checked).

Address: SAC Export API URL

Tip: To determine the SAC export job URL for the model, please refer to the SAP Analytics Cloud help page

[Export Data with the Data Export Service Open API | SAP Help Portal](#)

[Overview | Data Export Service | SAP API Business Hub](#)

When using the model delivered as part of the standard *SAP Human Experience Management(HXM) Workforce Planning* content package the URL is

https://<your SAC
tenant>/api/v1/dataexport/providers/sac/Caovcf79Irt4Iemzdv5643rzls/FactData

Receiver 2: SAC_OAuth_Token

This receiver helps you connect to the SAP SAC system to retrieve the OAuth authentication token.

The screenshot shows the configuration interface for a receiver named 'SAC_OAuth_Token'. The 'Receiver' tab is selected. Under the 'Connection' section, the following fields are visible:

- Receiver: SAC_OAuth_Token (dropdown menu)
- Adapter Type: HTTP (dropdown menu)
- Address: https://<SAC Token URL> (text field, highlighted with a red box)
- Method: GET (dropdown menu)
- Authentication: Basic (dropdown menu)
- Credential Name: SAC_OAUTH_TOKEN_CREDS (text field, highlighted with a red box)
- Timeout (in ms): 60000 (text field)

At the bottom right of the interface, there are buttons for 'Save', 'Deploy', and 'Close'.

Address: Error! Hyperlink reference not valid. URL}}/oauth/token

Method: GET

Authentication: Basic (leave as Basic; not relevant as OAuth authentication is used in the flow)

Credential Name: the name of the SAC security artifact that was deployed (default: SAC_OAUTH_TOKEN_CREDS)

Receiver 3: "Insert_SF_Position"

This receiver helps you connect to the SFSF EC system to insert the newly planned position from SAP SAC

The screenshot shows the configuration interface for the 'Insert_SF_Position' receiver. The 'Receiver' tab is selected, showing the following fields:

- Receiver: Insert_SF_Position (dropdown)
- Adapter Type: HTTP (dropdown)
- Address: {{SF_API_BASE_URL}}/odata/v2/Position
- SF_API_BASE_URL: https://<SFAPI Endpoint> (text field, highlighted with a red box)
- Credential Name: SFPositionWriteBack (text field, highlighted with a red box)

At the bottom right, there are buttons for 'Save', 'Deploy', and 'Close'.

Address: {{SF_API_BASE_URL}}/odata/v2/Position

TIP: YOU CAN FIND THE SUCCESSFACTORS API ENDPOINTS HERE:

https://help.sap.com/docs/SAP_SUCCESSFACTORS_PLATFORM/d599f15995d348a1b45ba5603e2aba9b/03e1fc3791684367a6a76a614a2916de.html

Credential Name: the name of the SF Security artifact that was deployed (default: SFPositionWriteBack)

Configuring optional parameters of the job

Once the receivers are successfully configured, you can leverage the optional parameters to limit the integration job to only include positions in specific company codes or job classifications.

You can find the optional parameters by clicking on "more"-tab in the configuration dialog.

Timer
Receiver
More

Type: All Parameters

COMPANY_CODE:

HR_POSITION:

JOB_CLASSIFICATION:

MPL_Log_Switch:

| Property | Description |
|--------------------|---|
| COMPANY_CODE | Company Code Loaded into SAC |
| HR_POSITION | Position ID generated by SAC |
| JOB_CLASSIFICATION | Job Classification code loaded into SAC |
| MPL_Log_Switch | Attach MPL log to iflow exeuction |
| | |
| | |
| | |
| | |

TIP: you can leave one or more of these parameters blank. If you do not want to enter any parameters (= integrate all planned positions to Success Factors) then leave all parameters blank.

Reference Documents:

Integration Suite : [SAP Cloud Integration](#) | [SAP Help Portal](#)