

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA for Accrual Object Creation Approval

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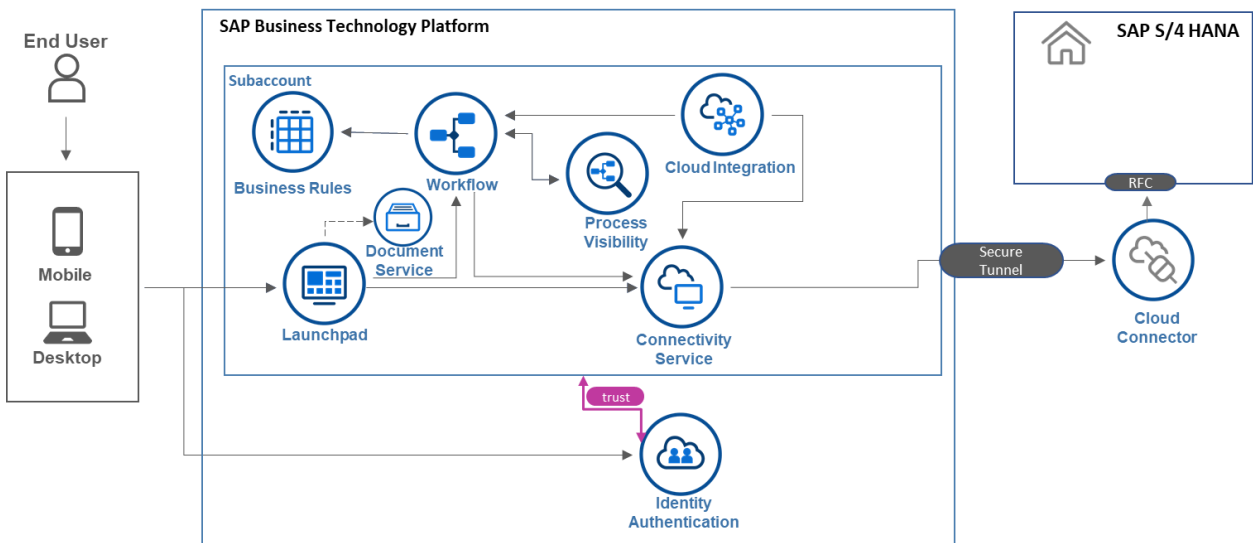
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Overview

This document provides information about setup steps to consume the package **Accrual Object Creation Approval**.

Organizations procure a wide variety of consumables, goods and services to run their day-to-day operations. On delivery, invoicing and payment for the products or services rendered can pose quite a challenge. Some of the challenges arise from invoices being delayed or if advances had been paid – for example, insurance payments and subscriptions. Finance has the legal obligation to accrue or defer these service and consumable costs as well as advance payments at month-end or quarter-end.

Solution Diagram



This Integration Package contains the following salient features:

- Get Approvers for Accrual Object integration model fetches Accrual Object details from SAP Build Process Automation or SAP Workflow Management and create Accrual Object in SAP S/4HANA.
- Create Accrual Object integration model fetches approver details from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management for Accrual Object Creation Requests.

Required SAP Business Technology Platform Services

The workflow content package **Accrual Object Creation Approval** is intended to be used for SAP S/4HANA and requires the following services in SAP BTP:

- SAP Build Process Automation or SAP Workflow Management to orchestrate the process.
- Cloud Integration capability within SAP Integration Suite
- SAP Connectivity service (cloud connector) to establish access to SAP S/4HANA.
- SAP Launchpad service to access the apps that are involved in the process.
- SAP Business Application Studio to modify/deploy the SAPUI5 applications.
- SAP BTP, Cloud Foundry runtime.
- SAP Cloud Identity Services (Optional)

Setup and Configuration

This section will explain how to setup the integration content that is required for the live process content package **Accrual Object Creation Approval**.

Configure RFC Destination

Configure a RFC destination to connect with SAP S/4HANA on-premise. Below is a destination configuration for SAP S/4HANA on-premise.

Note: This destination is required by Cloud Integration (Suite).

Name	<RFC_DESTINATION_NAME>
Type	RFC
Proxy Type	OnPremise
User	<ONPREMISE_USER>
Password	<ONPREMISE_PASSWORD>
Repository User	<ONPREMISE_USER>
Repository Password	<ONPREMISE_PASSWORD>

Additional Properties	jco.client.ashost: <host>
Additional Properties	jco.client.client:<client number>
Additional Properties	jco.client.lang: <language>
Additional Properties	jco.client.sysnr:<system number >

Configure Cloud Connector

For SAP S/4HANA on-premise landscape, configure cloud connector to enable secure tunnel to SAP BTP tenant. Please refer the help documentation to [configure Cloud Connector](#). Services/Resources that need to be exposed from SAP S/4HANA on-premise using Cloud Connector

Resources	Protocol	Backend-Type
/sap/opu/odata/sap/API_MANUALACCRUALS	OData	ABAP System
ZWF_FM_HR_MASTER_GET_APPROVER	RFC	ABAP System

Import, configure and deploy cloud integration content

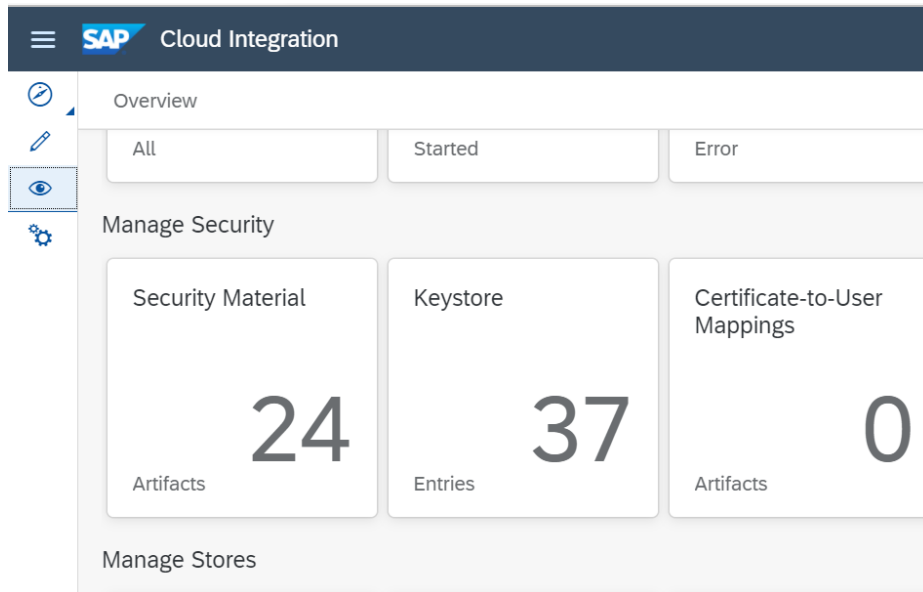
This workflow content requires the cloud integration to process the – Journal Entry Data in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Accrual Object Creation Approval** is available in SAP API Business hub to integrate SAP Build Process Automation or SAP Workflow Management with SAP S/4HANA. Integration models use RFC and OData to integrate with SAP S/4HANA. The following integration models are available in this package.

1. Get Approvers for Accrual Object Creation
2. Create Accrual Object

Import the integration package to your SAP Cloud Integration tenant. To be able to import and deploy integration flows, you need the role AuthGroup. IntegrationDeveloper (in Neo environment) or PI_Integration_Developer (in cloud foundry environment) assigned in your tenant.

Import pre-packaged Integration content in SAP Integration Suite

- Access your SAP Integration Suite tenant management node (<https://<integrationtenant>/itspaces>).
- View all pre-packaged integration flow under Discover->Integration. (<https://<integrationtenant>/itspaces/shell/discover>)
- Search content package “**SAP Build Process Automation Integration with SAP S/4HANA for Accrual Object Creation Approval**”.
- Click on the package “**SAP Build Process Automation Integration with SAP S/4HANA for Accrual Object Creation Approval**”.
- Click Copy to import the Integration content package to your workspace.
- Navigate to the *Monitor* view (<https://<integrationtenant>/itspaces/shell/monitoring>) to setup the security materials required for the package.
- Deploy the following credentials using the Security Material app. In Integration Suite, open Operations view, then click on Security Material to create and deploy security materials.



- o S4HANA – (User Credentials)

Create User Credentials

Name: *

Description:

Type: * ▼

User: *

Password:

Repeat Password:

[Deploy](#) [Cancel](#)

Note: The credential names can be different from what is mentioned above. Make sure that you configure the appropriate credential names in the integration flow's OData adapter configuration.

RFC Adapter Configuration

- Open the integration model Get Approvers for Accrual Object.
- Click **Configure** button, choose receiver "SAP_S4HANA_RFC" and set the required destination name.

Receiver More

Receiver: SAP_S4HANA_RFC

Adapter Type: RFC

Connection

Destination: [REDACTED]

- Go to More tab and enter the RFC_Name and if required, change the values for HTTP Session Reuse and Transaction Handling.

Configure "Get Approvers for Accrual Object"

Sender Receiver **More**

Type: All Parameters

HTTP_Session_Reuse: onExchange

RFCName: ZWF_FM_HR_MASTER_GET_APPROVER

Transaction_handling: Not Required

- Save the integration model.
- Configure similar parameters for receiver "SAP_S4HANA_RFC" in *Create Accrual Object* integration model and save the configurations.

OData Adapter Configuration

- Open the integration model *Create Accrual Object*.
- Click **Configure** button, choose receiver "SAP_S4HANA" and set the respective endpoint (host and port) and credential details.

Configure "Create Accrual Object"

Sender **Receiver** More

Connection

Receiver: SAP_S4HANA

Adapter Type: HCIOData

Address: {{Odata_Address}}/sap/opu/odata/sap/API_MANUALACCRUALS

Odata_Address: [REDACTED]

Proxy Type: On-Premise

Location ID: [REDACTED]

Authentication: Basic

Credential Name: [REDACTED]

- Go to More tab and enter the ClientNo and if required, change the values for HTTP_Session_Reuse and Transaction_Handling.

Sender Receiver **More**

Type: All Parameters

ClientNo: 200

Http_Session_Reuse: onExchange

Transaction_Handling: Required

- Save the integration model.

Once all the required configurations are done, deploy all the integration models.

Note: If Approver Determination Strategy is selected as “External Service” in workflow configurations, then create a new Cloud integration model Get Approvers for Free Form Payments Approval with the below mentioned endpoint, input and output details will be called to get the required approver details. In case there is a need for implementation of custom Cloud integration model then the same needs to have the below mentioned endpoint, input and output structure.

API Attributes	Values
Path	/http/getApproversaocawfm
HTTP Method	POST
Payload sent by workflow (sample data)	<pre>{ "d": { "companyCode": "4001", "positionID": "50000508" } }</pre>
Response Payload from integration flow	RESPONSE STATUS, Ex 200 OK <pre>{ "d": { "status": "Success", "message": "Data fetched successfully", } }</pre>

	<pre>"companyCode": "4001", "positionID": "50000508", "approvers": [{ "userID": "ABCXYZ", "emailID": "abcxyz@example.com", "name": "Mr Example Approver" }] }</pre>
Payload Type	Application / JSON