

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA for Journal Entry Posting Approval

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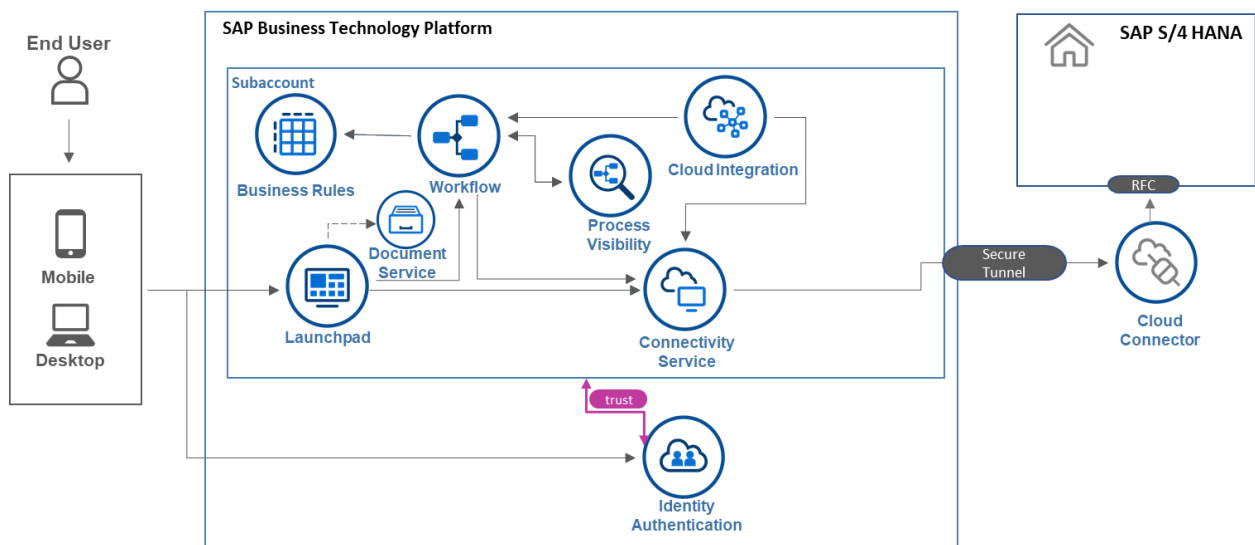
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Overview

This document provides information about setup steps to consume the package **Journal Entry Posting Approval**.

The solution focuses on providing a workflow-based solution for postings to General ledger accounts like making adjustment entries during period end closing or recording business transactions that do not have a source of document etc Businesses use the Journal entry method by posting the manual entries using T Code FB50 or use an upload template with the pre-filled data of transactions with the mandatory information.

Solution Diagram



This Integration Package contains the following salient features:

- Get Approvers for Posting Accounting Document integration model fetches approvers details for Journal Entry Posting from SAP S/4HANA to **SAP Build Process Automation** or SAP Workflow Management.
- Get General Ledger Account Group integration model fetches General Ledger Account Group from SAP S/4HANA to **SAP Build Process Automation** or SAP Workflow Management for determining approvers for Journal Entry Posting.
- Post Accounting Document integration model Post accounting document SAP S/4HANA to **SAP Build Process Automation** or SAP Workflow Management.

Required SAP Business Technology Platform Services

The workflow content package **Journal Entry Posting 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 **Journal Entry Posting 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/ZZ1_GLACCINCHARTOFACC_CDS	OData	ABAP System
BAPI_ACC_DOCUMENT_POST	RFC	ABAP System

BAPI_TRANSACTION_COMMIT	RFC	ABAP System
BAPI_TRANSACTION_ROLLBACK	RFC	ABAP System
ZWF_RFC_HR_MASTER_GET_APPR	RFC	ABAP System

Import, configure and deploy cloud integration content

This live process 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 Journal Entry Posting 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 Accounting Document
2. Get General Ledger Account Group
3. Post Accounting Document

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 Journal Entry Posting Approval**”.
- Click on the package “**SAP Build Process Automation Integration with SAP S/4HANA for Journal Entry Posting 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.

- S4HANA – (User Credentials)

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 Accounting Document*.
- Click **Configure** button, choose receiver "SAP_S4HANA_RFC" and set the required destination name.

- 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 Posting Accounting Document"

Sender Receiver **More**

Type:	All Parameters
HTTP_Session_Reuse:	onExchange
RFCName:	ZWF RFC_HR_MASTER_GET_APPR
Transaction_handling:	Not Required

- Save the integration model.
- Configure similar parameters for receiver "SAP_S4HANA RFC" in *Post Accounting Document* integration model and save the configurations.

OData Adapter Configuration

- Open the integration model *Get General Ledger Account Group*.
- Click **Configure** button, choose receiver "SAP_S4HANA" and set the respective endpoint (host and port) and credential details.

Configure "Get General Ledger Account Group"

Sender **Receiver** More

Connection

Receiver:	SAP_S4HANA
Adapter Type:	HTTP
Address:	{{Odata_Address}}/sap/opu/odata/sap/\${property.ODataName}/\${property.ODataEntity}
Odata_Address:	██████████:██████████
Proxy Type:	On-Premise
Location ID:	
Authentication:	Basic
Credential Name:	██████████

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

Configure "Get General Ledger Account Group"

Sender Receiver **More**

Type:	All Parameters
HTTP_Session_Reuse:	onExchange
ODataEntity:	ZZ1_GLAclnChartOfAcc
ODataName:	ZZ1_GLACCINCHARTOFACC_CDS
SAPClientNo:	200
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 a Cloud integration model Get Approvers for Accounting Document 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/getApproversjepawfm
HTTP Method	POST
Payload sent by workflow (sample data)	{ "d": { "companyCode": "4001", "positionID": "50000508" } }
Response Payload from integration flow	RESPONSE STATUS, Ex 200 OK { "d": { "status": "Success", } }

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