

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Acquisition Approval

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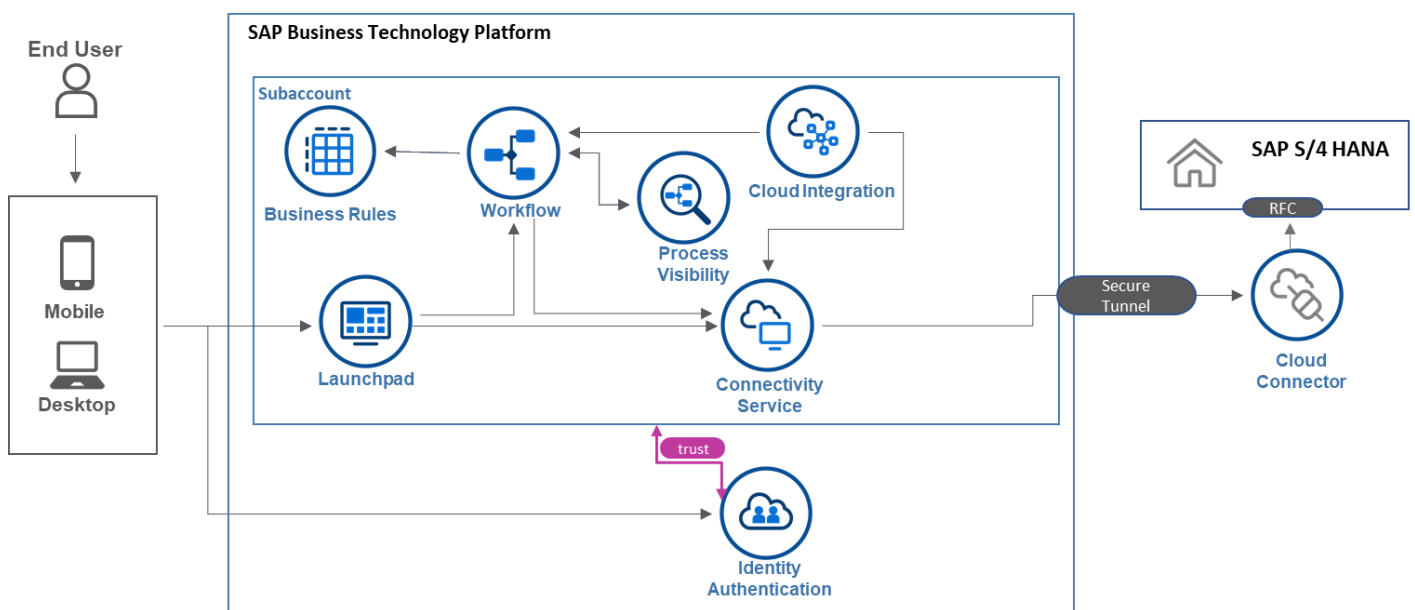
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Overview

This document provides information about setup steps to consume the package **Fixed Asset Acquisition Approval**. The main audience of this document are Business Process Experts and Process Operators.

Fixed asset acquisition transactions are usually high value items which should not get posted in the SAP S/4HANA system without notice. This live process content will help business in obtaining approvals for Acquiring of Fixed assets based on Approval determination. This helps better governance.

Solution Diagram



This Integration Package contains the following salient features:

- Get Approvers for Asset Acquisition integration model fetches approvers details for Fixed Asset Acquisition from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management.
- Post Asset Acquisition integration model fetches Asset Acquisition details from SAP Build Process Automation or SAP Workflow Management and Post Asset Acquisitions in SAP S/4HANA.
- Get Cost Center Owner Address for Asset Acquisition integration model fetches email address of Cost Center Owner from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management.

Required SAP Business Technology Platform Services

The workflow content package **Fixed Asset Acquisition 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 **Fixed Asset Acquisition 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
BAPI_USER_GET_DETAIL	RFC	ABAP System
ZWF_FM_HR_MASTER_GET_APPR_MULT	RFC	ABAP System
BAPI_ASSET_ACQUISITION_POST	RFC	ABAP System
/sap/opu/odata/sap/API_COSTCENTER_SRV	OData	ABAP System

Import, configure and deploy cloud integration content

This workflow content requires the cloud integration to process the Asset Acquisition Data in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Acquisition 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 Asset Acquisition Approval.
2. Get Cost Center Owner Address for Asset Acquisition.
3. Post Asset Acquisition.

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 Fixed Asset Acquisition Approval”.
- Click on the package “SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Acquisition 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)

Create User Credentials

Name: * S4HANA

Description: To connect to SAP S/4 HANA

Type: * User Credentials

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 Asset Acquisition Approval.
- 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:

- 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 Asset Acquisition Approval"

Sender	Receiver	More
		Type: All Parameters
		HTTP_Session_Reuse: onExchange
		RFC_Name: ZWF_FM_HR_MASTER_GET_APPR_MULT
		Transaction_handling: Not Required

- Save the integration model.
- Configure similar parameters for receiver "SAP_S4HANA_RFC" in Post Asset Acquisition and Get Cost Center Owner Address for Asset Acquisition integration models and save the configurations.

OData Adapter Configuration

- Open the integration model Get Cost Center Owner Address for Asset Acquisition.
- Click Configure button, choose receiver "SAP_S4HANA" and set the respective endpoint (host and port) and credential details.

Configure "Get Cost Center Owner Address for Asset Acquisition"

Sender	Receiver	More
Connection	Receiver:	SAP_S4HANA_ODATA
	Adapter Type:	HCIOData
	Address:	{{OData_Address}}/sap/lopu/odata/sap/API_COSTCENTER_SRV
	OData_Address:	[REDACTED]
	Proxy Type:	On-Premise
	Location ID:	
Processing	Authentication:	Basic
	Credential Name:	[REDACTED]
	Timeout (in min):	1

- 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 a Cloud integration model Get Approvers for Asset Acquisition 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/getApproversfaaawfm
HTTP Method	POST
Payload sent by workflow (sample data)	<pre>{ "d": { "positions": [{ "companyCode": "4001", "positionID": "50000508" }, { "companyCode": "4001", "positionID": "50000509" }] } }</pre>
Response Payload from integration flow	<p>RESPONSE STATUS, Ex 200 OK</p> <pre>{ "d": { "status": "Success",</pre>

	<pre> "message": "Data fetched successfully", "approvers": [{ "userID": "ABC", "emailID": "abc@abc.com", "name": "ABC ABC", "companyCode": "4001", "positionID": "50000508" }, { "userID": "XYZ", "emailID": "xyz@xyz.com", "name": "XYZ XYZ", "companyCode": "4001", "positionID": "50000509" }] } } </pre>
Payload Type	Application / JSON