

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

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

Table of Contents

Table of Contents	2
Overview	3
Required SAP Business Technology Platform Services	5
Setup and Configuration.....	6
Configure SAP S/4HANA Destination.....	6
Configure RFC Destination.....	6
Configure Cloud Connector	7
Import, configure and deploy cloud integration content.....	7
Import pre-packaged Integration content in SAP Integration Suite	8
RFC Adapter Configuration.....	9
OData Adapter Configuration	9

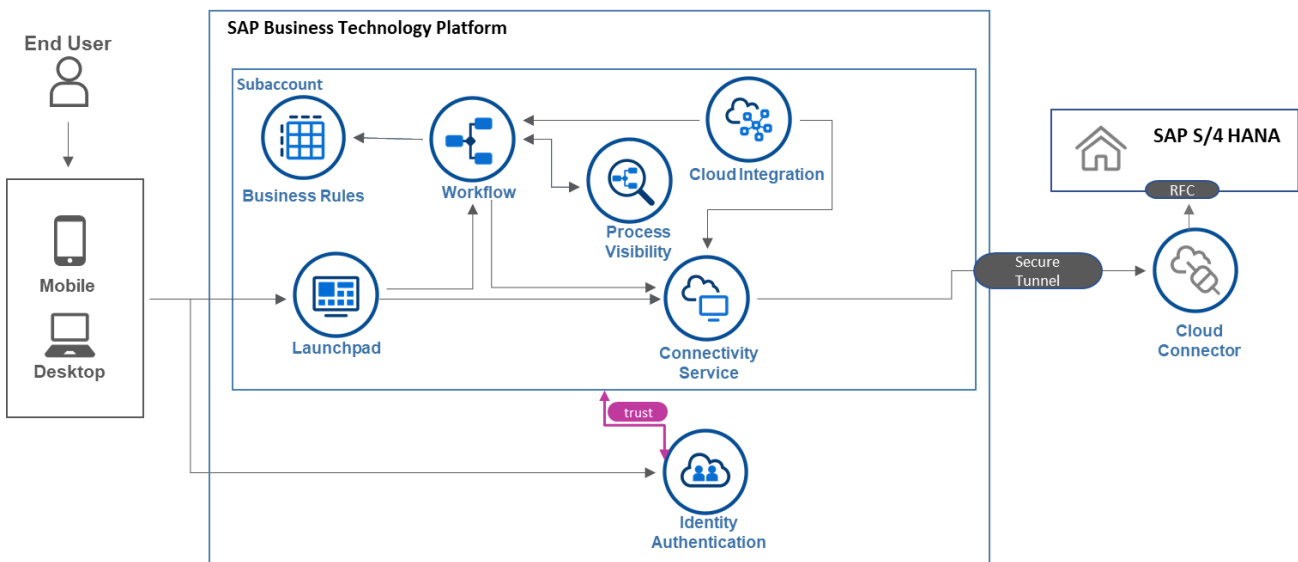
Overview

This document provides information about configuration steps to setup the integration content to consume the live process content package **Fixed Asset Transfer Approval**. The primary audience of this document is integration administrators and developers.

Objective of this workflow is to have approval process in place for Fixed asset transfers so that these transactions can be tracked and monitored before actual document postings in SAP S/4HANA.

Fixed asset transfers (both Intercompany and Intra Company) transactions are usually high value items which should not get posted in the SAP S/4HANA system without notice. This live process will help business in obtaining approvals for transfers of Fixed assets based on Approval determination. This helps in better governance practice.

Solution Diagram



This Integration Package contains the following salient features:

- Create Fixed asset iFlow fetches API to create Fixed Asset in SAP S/4HANA.
- Get Cost Center Owner Address iFlow retrieves email address of cost center owner from SAP S/4HANA to **SAP Build Process Automation** or SAP Workflow Management.
- Get Fixed Asset Details iFlow fetches Asset Details from SAP S/4HANA to **SAP Build Process Automation** or SAP Workflow Management.
- Post Asset Transfer iFlow post Asset Transfer in SAP S/4HANA.

Required SAP Business Technology Platform Services

The live process content package **Fixed Asset Transfer Approval** is intended to be used for SAP S/4HANA (on-premise) 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.

Setup and Configuration

This section will explain how to setup the integration content that is required for the workflow content packages **Fixed Asset Transfer Approval**.

Configure SAP S/4HANA Destination

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

Name	S4HANA
Type	HTTP
Proxy Type	On-Premise
User	<ONPREMISE_USER>
Password	<ONPREMISE_PASSWORD>
Authentication	BasicAuthentication
URL	<OData base URL of SAP S/4HANA>
Additional Properties	sap-client: <client number>

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.

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>
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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_COSTCENTER_SRV	HTTPS	ABAP System
BAPI_ASSET_TRANSFER_POST	RFC	ABAP System
BAPI_FIXEDASSET_GETLIST	RFC	ABAP System
BAPI_FIXEDASSET_CREATE1	RFC	ABAP System
BAPI_USER_GET_DETAIL	RFC	ABAP System
BAPI_TRANSACTION_COMMIT	RFC	ABAP System
BAPI_TRANSACTION_ROLLBACK	RFC	ABAP System

Import, configure and deploy cloud integration content

This workflow content requires the cloud integration to process the – Lease Termination in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Transfer 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. Create Fixed Asset
2. Get Cost Center Owner Address
3. Get Fixed Asset Details
4. Post Asset Transfer

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

The screenshot shows a 'Create User Credentials' dialog box with the following fields and values:

- Name: * S4HANA
- Description: To connect to SAP S/4 HANA
- Type: * User Credentials (with a dropdown arrow)
- User: * [Redacted]
- Password: [Redacted]
- Repeat Password: [Redacted]

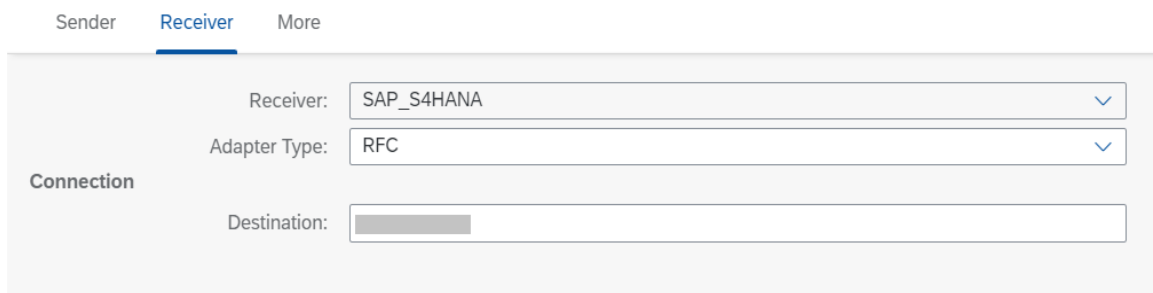
At the bottom right, there are two buttons: 'Deploy' and 'Cancel'.

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 *Create Fixed Asset*
- Click **Configure** button, choose receiver (SAP_S4HANA) and set required destination.



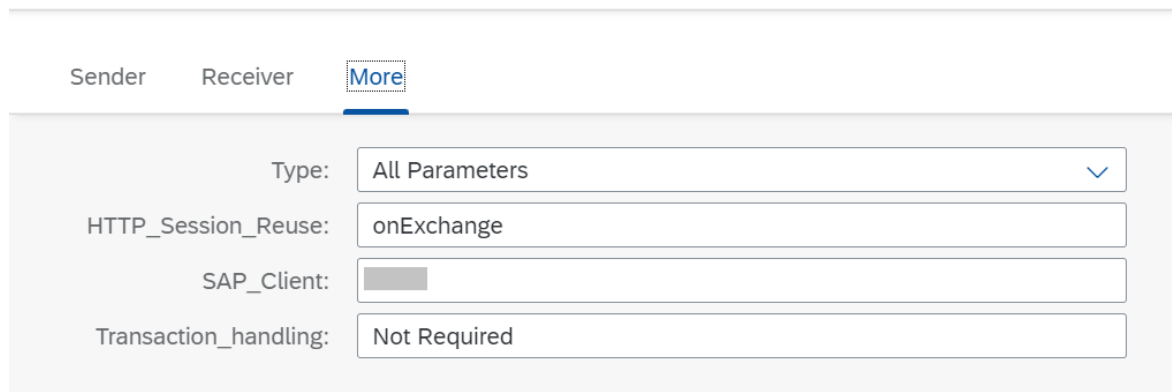
The screenshot shows the 'Receiver' tab of the configuration interface. It features three input fields: 'Receiver' with the value 'SAP_S4HANA', 'Adapter Type' with the value 'RFC', and 'Destination' which is currently empty. The 'Connection' label is positioned to the left of these fields. Above the configuration area, there are three tabs: 'Sender', 'Receiver' (which is selected and underlined), and 'More'.

- Save and Deploy the integration model.
- Maintain the same RFC Adapter settings for receiver "SAPS4HANA" in Get Fixed Asset Details and receiver "SAP_S4HANA" in Get Cost Center Owner Address and Post Asset Transfer integration models and deploy the same.

OData Adapter Configuration

- Open the integration model Get Cost Center Owner Address.
- Click **Configure** button, choose receiver SAP_S4HANA_ODATA and set the respective endpoint details and credential names.
- Go to More tab and enter the required value for SAP_Client

Configure "Get Cost Center Owner Address"



The screenshot shows the 'More' tab of the configuration interface. It features four input fields: 'Type' with the value 'All Parameters', 'HTTP_Session_Reuse' with the value 'onExchange', 'SAP_Client' which is currently empty, and 'Transaction_handling' with the value 'Not Required'. Above the configuration area, there are three tabs: 'Sender', 'Receiver', and 'More' (which is selected and underlined).

- Save and Deploy the integration model.
- Note: In case the Approver Determination Strategy is selected as “External Service” in workflow configurations, then a Cloud integration model needs to be implemented with the below mentioned endpoint, input and output details.

API Attributes	Values
Path	/http/getApproversFATransferwfm
HTTP Method	GET
Payload sent by workflow (sample data)	<pre>{ "d": { "assetDetails": { "assetTransferType": "Intra Company Transfer", "assetHeader": { "assetKey": "Intra Company Transfer_xyz_11/25/2021 6:35:17 PM", "companyCode": "4000", "text": "", "docDate": "20211125", "assetValueDate": "20211125", "postingDate": "20211125", "assetTransferType": "Intra Company Transfer", "intravisible": true, "existingasset": true, "totalNetbookValue": "165.00", "totalNetbookCurrency": "USD", "customCreatedBy": "xyz", "customCreatedByEmail": "xyz@sample.com" }, "assetItem": [{ "fromAssetNumber": "100000000042",</pre>

	<pre> "fromAssetSubNumber": "0001", "fromDepreciationArea": "02", "toDepreciationArea": "02", "amountPosted": "165.00", "fromAssetDescription": "Desc", "assetCapitalizationDate": "2021-03-01", "assetStatus": "", "cumulativeAcquistionValue": "180.00", "accumulatedDepreciationValue": "-15.00", "netbookValue": "165.00", "transferPercent": 100, "currency": "USD", "toAssetNumber": "1000000000006", "toAssetSubNumber": "0000", "toAssetNumberDescription": "Test for Intercompany Transfer", "assetClass": "", "fromCostCenter": "0040001000", "toCostCenter": "0040002001", "fromCompanyCode": "4000", "toCompanyCode": "4000" }] }. "Role": Sender Cost Center Owner } }; </pre>
<p>Response Payload from integration flow</p>	<p>RESPONSE STATUS, Ex 200 OK</p> <pre> "ApproverRulesResult": {"d": {"approvers": [{"supervisorEmail": "email@example.com", "email": "email@example.com", "groupld": "Approver_Groupld", "userId": "Approver_Userld"}]}} </pre> <p>Note: When Status is not 200, then it is considered a failed service call.</p>

Payload Type	Application / JSON
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