

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

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

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Overview

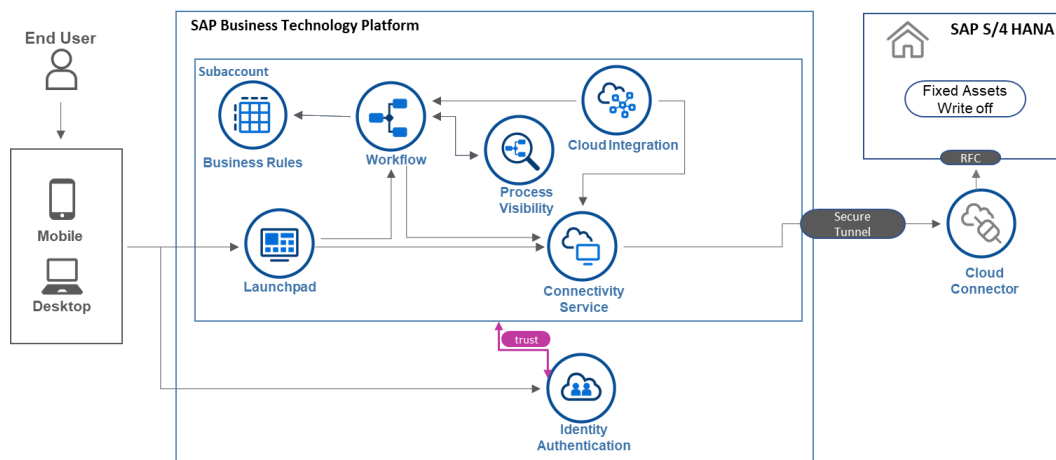
This document provides information about configuration steps to setup the integration content to consume the live process content packages **Fixed Asset Write-Off Approval**. The primary audience of this document is integration administrators and developers.

Fixed Asset workflow is to have approval process in place for Fixed asset write-off so that these transactions can be tracked and monitored before actual document postings in SAP S/4HANA.

Applicable Scenarios

- ABAA: Unplanned depreciation
- F-92: Asset sale with Customer
- ABAON: Asset sale without customer
- ABAVN: Asset retirement by Scrapping
- ABT1N: Intercompany asset transfer
- ABAWL: Asset impairment - Transaction type: Z81, Z83

Solution Diagram



Salient features of this integration package are:

- **Get Asset Details** – To fetch asset details from SAP S/4HANA
- **Get Cost Center Owner** – To get the Cost Center Owner and its email-id from SAP S/4HANA
- **Post Asset Write-Off API** – To post Asset Write-Off in SAP S/4HANA based on the write-off details received from SAP Build Process Automation or SAP Workflow Management
- **Get Approvers for Fixed Asset** – This is a template integration model which can be used to implement custom integration model for Approver Determination which may include connecting to external source system

Required SAP Business Technology Platform Services

The workflow content package SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Approval Write Off is intended to be used for SAP S/4HANA (on-premise and cloud) 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 on-premise.
- 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 **SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Approval Write Off** .

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*.

Note: This destination is required by SAP Workflow Management as well as Cloud Integration (Suite).

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*.

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_COMPANYCODE_SRV	HTTPS	ABAP System
/sap/opu/odata/sap/API_COSTCENTER_SRV	HTTPS	ABAP System
/sap/opu/odata/sap/ZZ1_ASSETTRANSACTIONTYPE_CDS	HTTPS	ABAP System
/sap/opu/odata/sap/ZZ1_DEPRAREAFORLEDGERVH_CDS	HTTPS	ABAP System
BAPI_ASSET_RETIREMENT_POST	RFC	ABAP System
BAPI_ASSET_REVALUATION_POST	RFC	ABAP System
BAPI_ASSET_VALUE_ADJUST_POST	RFC	ABAP System
BAPI_FIXEDASSET_GETLIST	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

The workflow content requires cloud integration to process – Fixed Asset Approval for Write-Offs in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Approval Write Off** 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 to integrate with SAP S/4HANA. The following integration models are available in this package.

1. Get Asset Details
2. Get Cost Center Owner
3. Post Asset Write-Off API

Import the integration package to your SAP Cloud Integration tenant. To be able to import and deploy integration models, 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 model under Discover->Integration. (<https://<integrationtenant>/itspaces/shell/discover>)
- Search content package “**SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Approval Write Off**”.
- Click on the package SAP Build Process Automation Integration with SAP S/4HANA for Fixed Asset Approval Write Off .
- 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: *

Description:

Type: *

User: *

Password:

Repeat Password:

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

RFC and OData Adapter Configuration

- Open the integration model *Get Cost Center Owner*.
- Click **Configure** button, choose receiver (SAP_S4HANA) and set their respective endpoint, credential names, destination and SAP Client details.

Configure "Get Cost Center Owner"

Sender **Receiver** More

Connection

Receiver:

Adapter Type:

Destination:

Configure "Get Cost Center Owner"

Sender **Receiver** More

Connection

Receiver:

Adapter Type:

Address:

OData_URL:

Proxy Type:

Authentication:

Credential Name:

Configure "Get Cost Center Owner"

Sender	Receiver	More
Type:	All Parameters	
SAP_Client:	[Redacted]	
Transaction_handling:	Not Required	

- Save and Deploy the integration model.
- Maintain the same RFC Adapter settings for both receivers "SAPS4HANA" and "SAP_S4HANA" in *Get Asset Details* integration model and deploy the same.
- Maintain the same RFC Adapter settings for receiver "SAP_S4HANA" in *Post Asset Write-Off-API* integration model and deploy the same.

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.

Endpoint: /getApproversFA

Input from Workflow:

```
{
  "d":
  {
    "AssetDetails" : $.context.assetDetails,
    "Role" : $.context.role
  }
}
```

Output to Workflow:

```
{
  "d": {
    "approvers": [
      {
        "supervisorEmail": "email@example.com",
        "email": "email@example.com",
        "userGroup": "Approver_GroupId",
        "userId": "Approver_UserId"
      },
      {
```

```
"supervisorEmail": "email1@example.com",  
"email": "email1@example.com",  
"userGroup": "Approver_GroupId1",  
"userId": "Approver_UserId1"  
}  
]  
}  
}
```