

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA for Lease Termination

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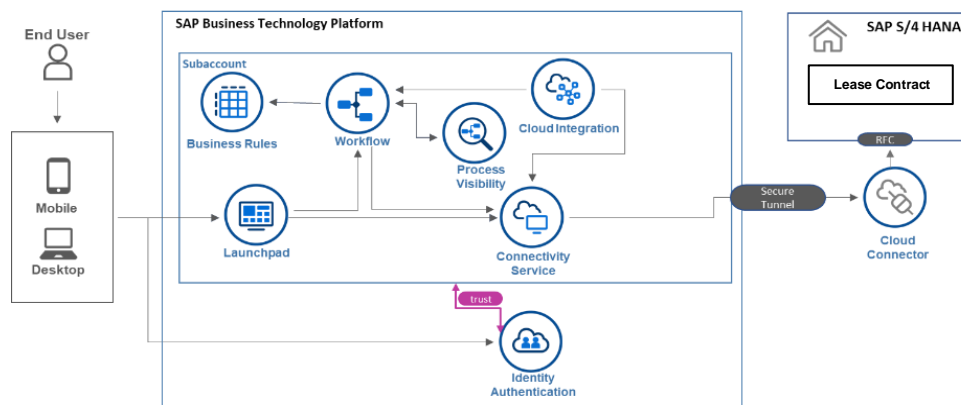
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# Overview

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

This package contains Integration models to read Real Estate Contracts and User Email-ID from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management and Update Contract Master Data Lock from SAP Build Process Automation or SAP Workflow Management to SAP S/4HANA.

## Solution Diagram



This package contains Integration models to read Real Estate Contracts and User Email-ID from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management and Update Contract Master Data Lock from SAP Build Process Automation or SAP Workflow Management to SAP S/4HANA.

Salient features of this integration package are:

- Get Cost Centre Owner integration model fetches cost center owner's email-id from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management.
- Perform Business Transaction integration model executes business transactions related to Real Estate Contracts to Lock/Unlock the Master Data.
- Post Contract Valuation integration model performs the valuation of Real Estate Contract after approval of workflow
- Trigger Workflow - Real Estate Contracts integration model fetches Real Estate Contract details from SAP S/4HANA and trigger an approval workflow for the same in SAP Build Process Automation or SAP Workflow Management.
- Get Address integration model fetches email-id of requester user-id

# Required SAP Business Technology Platform Services

The workflow content package **Asset Lease Termination Approval** 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 live process content packages **Asset Lease Termination 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*.

Note: This destination is required by SAP Build Process Automation or 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

Note: Steps to implement the custom OData services are mentioned in “Deploy Custom ABAP Objects” section of this document.

Resources	Protocol	Backend-Type
/sap/opu/odata/sap/RE_CN_VALUATION_ODATA_SRV	HTTPS	ABAP System
/sap/opu/odata/sap/RE_CN_CONTRACT_ODATA_SRV	HTTPS	ABAP System
/sap/opu/odata/sap/API_COSTCENTER_SRV	HTTPS	ABAP System
/sap/opu/odata/sap/ZWF_RE_CONTRACT_STATUS_CDS	HTTPS	ABAP System
/sap/opu/odata/sap/ZWF_RE_CN_POST_VALUATION_SRV	HTTPS	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 Lease Termination** 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 Address
2. Get Cost Center Owner for Lease Termination
3. Perform Business Transaction
4. Post Contract Valuation
5. Trigger Workflow – Real Estate Contracts

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 flow under Discover->Integration. (<https://<integrationtenant>/itspaces/shell/discover>)
- Search content package “**SAP Build Process Automation Integration with SAP S/4HANA for Lease Termination**”.
- Click on the package SAP Build Process Automation Integration with SAP S/4HANA for Lease Termination .
- 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
- User: \*
- Password: \*
- Repeat Password: \*

Buttons: Deploy, Cancel

- **Workflow** – (OAuth2 Client Credentials) To start the approval workflows in SAP Build Process Automation or SAP Workflow Management ([help documentation to determine the service configuration parameters](#)). Make sure that the workflow service instance was created with the at least the WORKFLOW\_INSTANCE\_START scope.

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 HTTP adapter configuration.

## RFC and OData Adapter Configuration

- Open the integration model *Get Cost Center Owner for Lease Termination*.
- Click **Configure** button, choose receiver (SAP\_S4HANA) and set their respective endpoint, credential names, destination and SAP Client details.

Sender **Receiver** More

**Connection**

Receiver: SAP\_S4HANA

Adapter Type: RFC

Destination: [Redacted]

Sender **Receiver** More

**Connection**

Receiver: SAP\_S4HANA\_ODATA

Adapter Type: HCIOData

Address: {{OData\_URL}}/sap/opu/odata/sap/API\_COSTCENTER\_SRV

OData\_URL: http://[Redacted]

Proxy Type: On-Premise

Location ID: [Redacted]

Authentication: Basic

Credential Name: [Redacted]

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 receiver “SAPS4HANA” in *Perform Business Transaction* and receiver “SAP\_S4HANA” *Get Address* integration models and deploy the same.
- Open the integration model *Trigger Workflow – Real Estate Contracts*.
- Click **Configure** button, choose receivers one by one (SAP\_Workflow\_Management\_POST and SAP\_Workflow\_Management\_GET) and set their respective endpoint and credential names.
- Maintain the same above-mentioned OData Adapter settings for receivers “S4HANA\_Valuation”, “S4HANA\_Asset” and “S4HANA\_Partner” in *Trigger Workflow – Real Estate Contracts* integration model.
- Select receiver “S4HANA\_Contract” and enter the required Hostname and Port in “Address” section. Also, maintain the required credentials as configured in “Security Material” app.

Note: The OData name “ZWF\_RE\_CONTRACT\_STATUS\_CDS” and Resource Path “ZWF\_RE\_CONTRACT\_STATUS” will be the same as mentioned in the screenshot unless the names of these ABAP objects were changed while implementing the custom ABAP objects as mentioned in section “Deploy Custom ABAP Objects” in Setup Guide the workflow content packages **Asset Lease Termination Approval**.

Configure “Trigger Workflow - Real Estate Contracts”

The screenshot displays the configuration interface for a receiver in the SAP Integration Suite. The 'Receiver' tab is selected, showing the following configuration details:

- Receiver:** S4HANA\_Contract
- Adapter Type:** HCIOData
- Connection Section:**
  - Address:** http://.../sap/opu/odata/sap/ZWF\_RE\_CONTRACT\_STATUS\_CDS
  - Proxy Type:** On-Premise
  - Location ID:** (empty field)
  - Authentication:** Basic
  - Credential Name:** (empty field)
- Processing Section:**
  - Resource Path:** ZWF\_RE\_CONTRACT\_STATUS (with a 'Select' button)

- Save and Deploy the integration model.
- Open the integration model *Post Contract Valuation*.

- Click **Configure** button, choose receiver (SAP\_S4HANA) and set the required endpoint and credential names.

Configure "Post Contract Valuation"

Go to *More* tab and enter the OData Service Name, Function Import Name and SAP Client

Configure "Post Contract Valuation"

Note: The Service Name "ZWF\_RE\_CN\_POST\_VALUATION\_SRV" and Function Import Name "PostValuation" will be the same as mentioned in the screenshot unless the names of these ABAP objects were changed while implementing the custom ABAP objects as mentioned in section "Deploy Custom ABAP Objects" in Setup Guide of the workflow content package **Asset Lease Termination Approval** .

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: /http/getApproversLTleastermwf

Input from Workflow:

```
{
  "d":
  {
    "AssetContractDetails" : $.context.assetContractDetails,
    "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"
      }
    ]
  }
}
```