

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

SAP Workflow Management Integration with SAP S/4HANA –
Lease Termination

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Overview

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

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

Salient features of content package are:

1. Objectives

- The objective of the workflow is to take the approval for asset retirement as an outcome of early termination of contract.

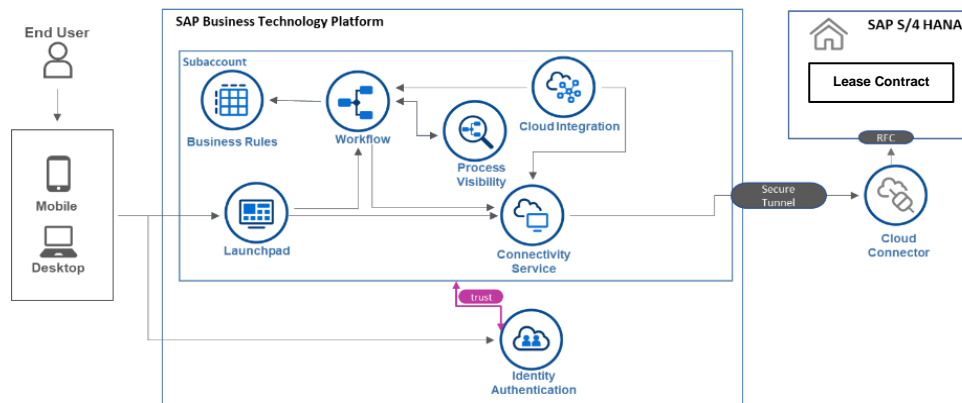
2. Features

- Plug and Play with SAP S/4 HANA without additional development.
- New Process variants can be configured in a no-code approach.
- Agent/approver determination using Business Rules or external service.
- Pre-built integration content to call SAP S/4 HANA from SAP Workflow Management Out-of-the-box visibility into key process performance indicators.

3. Applicable Scenarios

- Finance – Lease Accounting

SOLUTION DIAGRAM



This package contains Integration Flows to read Real Estate Contracts and User Email-ID from SAP S/4HANA to SAP Workflow Management and Update Contract Master Data Lock from SAP Workflow Management to

SAP S/4HANA.

Salient features of this integration package are:

- Get Cost Centre Owner iFlow fetches cost center owner's email-id from SAP S/4 HANA to SAP Workflow Management.
- Perform Business Transaction iFlow executes business transactions related to Real Estate Contracts to Lock/Unlock the Master Data.
- Post Contract Valuation iFlow performs the valuation of Real Estate Contract after approval of workflow
- Trigger Workflow - Real Estate Contracts iFlow fetches Real Estate Contract details from SAP S/4 HANA and trigger an approval workflow for the same in SAP Workflow Management.
- Get Address iFlow 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 Workflow Management to orchestrate the process.
- SAP Integration Suite for data activities with lease contract Information.
- 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 **Asset Lease Termination Approval**.

Configure SAP S/4HANA Destination

Configure S/4 HANA 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

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 Workflow Management Integration with SAP S/4HANA – Lease Termination** is available in SAP API Business hub to integrate 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

 Design / SAP Workflow Management Integration with SAP S/4HANA – Lease Termination / SAP Workflow Management Integration with SAP S/4HANA – Lease Termination

This package contains Integration Flows to read Real Estate Contracts and User Email-ID from SAP S/4HANA to SAP Workflow Management and also Update Contract Master Data Lock from SAP Workflow Management to SAP S/4HANA

Vendor: Accenture Mode: Editable
Version: 1.0.0

Overview **Artifacts (5)** Documents (2) Tags Comments

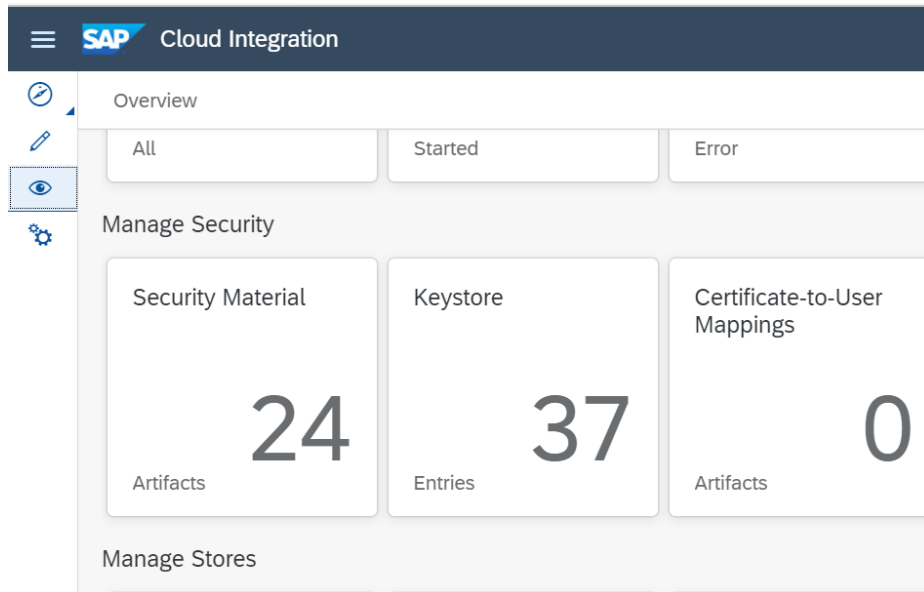
<input type="checkbox"/>	Name	Type	Version
<input type="checkbox"/>	Get Address Get user address from SAP S/4HANA to SAP Workflow Management Created	Integration Flow	1.0.0
<input type="checkbox"/>	Get Cost Center Owner for Lease Termination Get email-id of cost center owner from SAP S/4HANA to SAP Workflow Management Created	Integration Flow	1.0.0
<input type="checkbox"/>	Perform Business Transaction Perform Business Transactions against Real Estate Contracts to Lock/Unlock the Master Data Created	Integration Flow	1.0.0
<input type="checkbox"/>	Post Contract Valuation Performs Valuations against given Contract in SAP S/4HANA Created	Integration Flow	1.0.0
<input type="checkbox"/>	Trigger Workflow - Real Estate Contracts Fetch Real Estate Contract details from SAP S/4 HANA and trigger an approval workflow for the same in SAP Workflow Management Created	Integration Flow	1.0.0

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 Workflow Management Integration with SAP S/4HANA – Lease Termination**”.
- Click on the package SAP Workflow Management Integration with SAP S/4HANA – 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)**

Create User Credentials

Name: *

Description:

Type: * ▼

User: *

Password:

Repeat Password:

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

- **WF_LEASE – (OAuth2 Client Credentials)**

Edit OAuth2 Credentials

Name: *	<input type="text" value="WF_LEASE"/>
Grant Type:	<input type="text" value="Client Credentials"/>
Description:	<input type="text" value="To connect to SAP Workflow Management"/>
Token Service URL: *	<input type="text" value="https://[redacted]...authe..."/>
Client ID: *	<input type="text" value="[redacted]"/>
Client Secret: *	<input type="text" value="....."/>
Client Authentication:	<input type="text" value="Send as Request Header"/>

Include Scope:

[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 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:	<input type="text" value="SAP_S4HANA"/>	▼
	Adapter Type:	<input type="text" value="RFC"/>	▼
	Destination:	<input type="text" value="[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://

Proxy Type: On-Premise

Location ID:

Authentication: Basic

Credential Name:

Sender Receiver **More**

Type: All Parameters

SAP_Client:

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.

Configure "Trigger Workflow - Real Estate Contracts"

Timer **Receiver** More

Connection

Receiver: SAP_Workflow_Management_POST

Adapter Type: HTTP

Address: {{WF_API}}/workflow-service/rest/v1/workflow-instances

WF_API: https://api.workflow-sap.cfapps. .hana.ondemand.com

Credential Name:

Configure "Trigger Workflow - Real Estate Contracts"

Timer **Receiver** More

Connection

Receiver: SAP_Workflow_Management_GET

Adapter Type: HTTP

Address: {{WF_API}}/workflow-service/rest/v1/workflow-instances

WF_API: https://api.workflow-sap.cfapps. .hana.ondemand.com

Credential Name:

- 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"

Timer Receiver More

Connection

Receiver: S4HANA_Contract

Adapter Type: HCIOData

Address: http://[redacted]:[redacted]/sap/opu/odata/sap/ZWF_RE_CONTRACT_STATUS_CDS

Proxy Type: On-Premise

Location ID:

Authentication: Basic

Credential Name: [redacted]

Processing

Resource Path: ZWF_RE_CONTRACT_STATUS

- 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"

Sender Receiver More

Connection

Receiver: SAP_S4HANA

Adapter Type: HTTP

Address: {{{OData_URL}}}/sap/opu/odata/sap/\${property.ServiceName}/\${property.FunctionImportName}

OData_URL: http://[redacted]

Proxy Type: On-Premise

Location ID:

Authentication: Basic

Credential Name: [redacted]

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

Configure "Post Contract Valuation"

Sender Receiver **More**

Type: All Parameters

FunctionImportName: PostValuation

SAPClientNo: [redacted]

ServiceName: ZWF_RE_CN_POST_VALUATION_SRV

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 CPI iFlow 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"
      }
    ]
  }
}
```