

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Setup Guide Leased Asset Termination Approval

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# Overview

This document provides information about setting up the SAP Business Technology Platform account to consume the workflow content package Leased Asset Termination Approval . The main audience of this document are technical IT/system administrators.

## Scenario Definition

### 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.
- Pre-configured process steps to create new variants.
- Flexibility in determining process variants based on business conditions

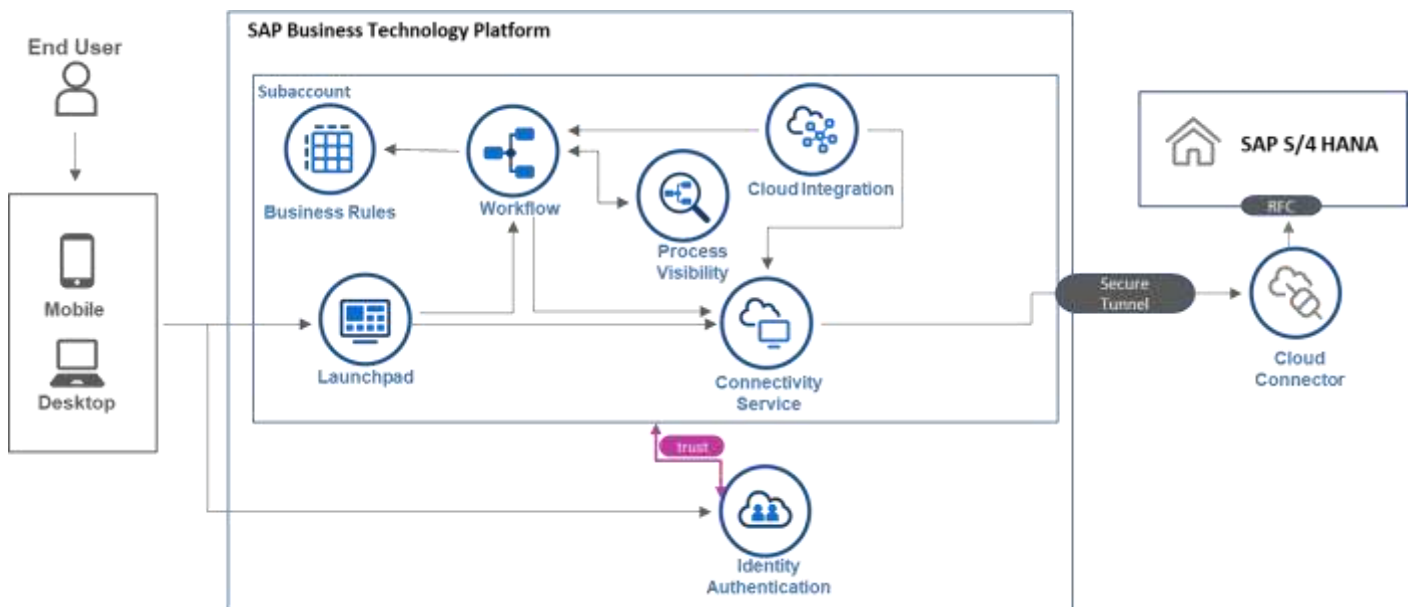
### 3. Benefits

- Early closure of Asset are usually high value items which should not get posted in the SAP S/4HANA system without approval. This workflow will help business in obtaining approvals for early ROU asset termination based on DoA Matrix.

### 4. Applicable Scenarios

- Finance – Lease Accounting

## SOLUTION DIAGRAM



## Required SAP BTP Services

Objective of this workflow is to have approval process in place for ROU asset retirement due to early termination of Contract.

- 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

## Configure SAP Workflow Management

Leased Asset Termination Approval content package requires SAP Workflow Management subscription or a CPEA contract. Follow the setup and configuration section of SAP Workflow Management.

<https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/d7910e2bf7f64afc9d0eb21b0cc9e84d.html>

## Configure OAuth2 Client Credentials Workflow Destination (Service Instance)

Similarly, create new Destination to call Workflow Service APIs using a Service route from SAP UI5 Component. For more details, follow the official help document:

<https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>

Note: While creating the service instance for Workflow service, make sure that at least the following scopes are assigned (help documentation to [enable technical authentication](#) to access the workflow APIs). If the scopes are not assigned, you can also [update the service instance](#) with the following scopes.

- WORKFLOW\_INSTANCE\_START
- WORKFLOW\_INSTANCE\_UPDATE\_CONTEXT
- WORKFLOW\_INSTANCE\_GET
- MESSAGE\_SEND

## Configure Workflow Email Destination

Configure workflow email destination to automatically send email notification to the involved parties. For more information on configuring the destination, see [configure workflow email destination](#).

## Configure Workflow Destination

A HTTP destination is required in the BTP subaccount where SAP Workflow Management is subscribed. Create a destination with name "Workflow" with the following configuration if it doesn't exist already. Please refer how to [create a HTTP destination](#) OAuth 2.0 Authentication (client credentials).

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rest_api_url>
Client ID	<client ID>
Client Secret	<client secret>
Token Service URL	<uaa.url>/oauth/token

## Configure Business Rules Destination

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Create a destination with name "BUSINESS\_RULES" with the following configuration if it doesn't exist already. Please refer how to [create a HTTP destination](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

Name	BUSINESS_RULES
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rule_runtime_url>/rules-service
Client ID	<client ID>
Client Secret	<client secret>
Token Service URL	<uaa.url>/oauth/token

## Configure Destination to Enable Start & Step Conditions

To enable the usage of start conditions and step conditions on a process variant, create a destination for business rules with the configuration as mentioned in the following help document:

[https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/543b5dbd77d940b4b1f972298b559911.html?q=WM\\_BUSINESSRULES](https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/543b5dbd77d940b4b1f972298b559911.html?q=WM_BUSINESSRULES)

## Configure Cloud Integration Destination

To call an integration flow, a HTTP destination is required in the SAP BTP tenant where the SAP Workflow Management is subscribed. Create a destination called CPI with either Basic Authentication or OAuth2ClientCredentials.

### Destination with Basic Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication
URL	<runtime.url>
Username	<user>
Password	<password>

### Destination with OAuth2ClientCredentials Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<runtime.url>
Client Id	<client ID>
Client Secret	<client secret>
Token Service URL	<oauth.url.for.clientCredentials>

### Additional Properties to Destination

Additionally, add the following properties in the destination for cloud integration.

WebIDEEEnabled	true
WebIDESystem	CPI
WebIDEUsage	odata_gen

## Configure APIs in SAP S/4HANA On-Premise

Following APIs are needed to be configured in SAP S/4HANA to use the content package.

OData Services:

/sap/opu/odata/sap/RE\_CN\_VALUATION\_ODATA\_SRV  
 /sap/opu/odata/sap/RE\_CN\_CONTRACT\_ODATA\_SRV  
 /sap/opu/odata/sap/API\_COSTCENTER\_SRV  
 /sap/opu/odata/sap/ZWF\_RE\_CONTRACT\_STATUS\_CDS (Custom OData)  
 /sap/opu/odata/sap/ZWF\_RE\_CN\_POST\_VALUATION\_SRV (Custom OData)

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

### Steps to Register OData Services in SAP Gateway

1. Go to t-code “/IWFND/MAINT\_SERVICE”
2. Click on “Add Service”
3. Select the required System Alias (Select LOCAL as system alias in case of Embedded Deployment of Gateway)
4. Enter Technical Service Name as “RE\_CN\_VALUATION\_ODATA\_SRV” and click on “Get Services”
5. Select “RE\_CN\_VALUATION\_ODATA\_SRV” and click on “Add Selected Services”
6. Enter the required package and click on OK
7. Repeat steps 1 to 6 for Technical Service “RE\_CN\_CONTRACT\_ODATA\_SRV” and “API\_COSTCENTER\_SRV”

### List of BAPIs which need to be available in S/4 HANA On-premise

BAPI\_USER\_GET\_DETAIL - Read User Details

BAPI\_TRANSACTION\_COMMIT – Commit posting of data

BAPI\_TRANSACTION\_ROLLBACK – Rollback posting of data

## 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 Platform Integration.

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 Platform Integration.

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    Model: Extensible  
Version: 1.0.0

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

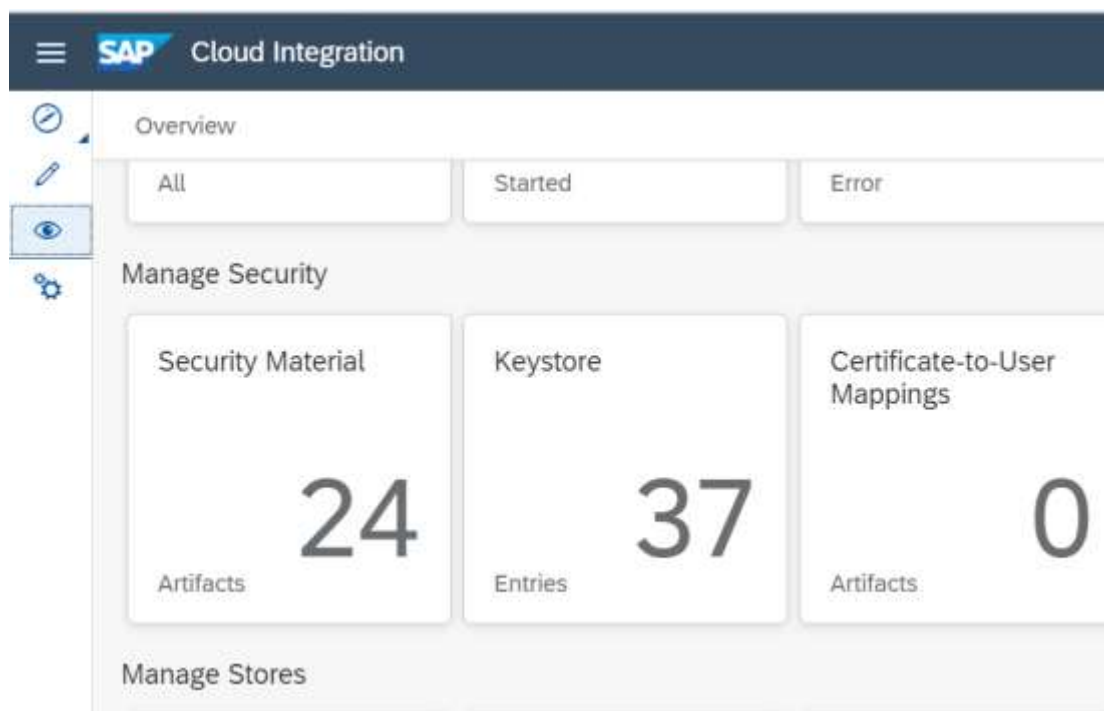
<input type="checkbox"/>	Name	Type	Version
<input type="checkbox"/>	<b>Get Address</b> Get user address from SAP S/4HANA to SAP Workflow Management Created	Integration Flow	1.0.0
<input type="checkbox"/>	<b>Get Cost Center Owner for Lease Termination</b> Get email-id of cost center owner from SAP S/4HANA to SAP Workflow Management Created	Integration Flow	1.0.0
<input type="checkbox"/>	<b>Perform Business Transaction</b> Perform Business Transactions against Real Estate Contracts to Lock/Unlock the Master Data Created	Integration Flow	1.0.0
<input type="checkbox"/>	<b>Post Contract Valuation</b> Performs Valuations against given Contract in SAP S/4HANA Created	Integration Flow	1.0.0
<input type="checkbox"/>	<b>Trigger Workflow - Real Estate Contracts</b> 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: \* S4HANA

Description: To connect to SAP S/4 HANA

Type: \* User Credentials

User: \*

Password: \*

Repeat Password: \*

Deploy Cancel

- WF\_LEASE – (OAuth2 Client Credentials)

**Edit OAuth2 Credentials**

Name: \* WF\_LEASE

Grant Type: Client Credentials

Description: To connect to SAP Workflow Management

Token Service URL: \* https://[redacted].auth...

Client ID: \*

Client Secret: \*

Client Authentication: 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

Receiver: SAP\_S4HANA

Adapter Type: RFC

Destination: [Redacted]

Sender **Receiver** More

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 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

Receiver: SAP\_Workflow\_Management\_POST

Adapter Type: HTTP

Connection

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

Receiver: SAP\_Workflow\_Management\_GET

Adapter Type: HTTP

Connection

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 this

document.

Configure "Trigger Workflow - Real Estate Contracts"

Timer Receiver More

Receiver: S4HANA\_Contract

Adapter Type: HCIOData

Address: http://.../sap/opu/odata/sap/ZWF\_RE\_CONTRACT\_STATUS\_CDS

Proxy Type: On-Premise

Location ID:

Authentication: Basic

Credential Name:

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

Receiver: SAP\_S4HANA

Adapter Type: HTTP

Address: {{OData\_URL}}/sap/opu/odata/sap/\$[property:ServiceName]/\$[property:FunctionImportName]

OData\_URL: http://...

Proxy Type: On-Premise

Location ID:

Authentication: Basic

Credential Name:

- 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 this document.

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"
      }
    ]
  }
}
```

## Configure SAP Central Fiori Launchpad Site

Configure Fiori Launch Pad site to access Workflow Monitoring applications, My Inbox, Process Visibility Workspace and Start UI application to create approval requests.

Please refer help documentation [how to configure a start ui tiles on Central Fiori Launchpad](#).



## Deploy Custom UIs and Workflow module

The project consists of the following:

- leaseTermination HTML5 module – serves as the Workflow Task User Interface application for lease termination approval task

## Configure Contract Management Tile on Fiori Launchpad Site

Contract Management Fiori app will be opened in a new browser tab when the approver clicks on Contract number field on Lease Termination Approval UI screen for taking decision.

On Central Launchpad Site Manager, Switch to Content Manager Section and click on New Button.

Under Properties Tab, provide the below details

Title	Contract Management
Open App	In a new tab
System	S4HANA
App UI Technology	Dynamic URL
Relative path to the App	Relative Fiori App URL path of Contract Management App working in S4Hana. E.g. <code>/sap/bc/ui5_ui5/ui2/ushell/shells/abap/FioriLaunchpad.html?sap-client=200&amp;sap-language=EN#REValuation-manage</code>
Parameters:	Disable -Add intent and default SAP parameters to URL-Checkbox Enable - Use intent parameters as URL parameters – Checkbox

<

**Contract Management**

PROPERTIES   NAVIGATION   VISUALIZATION   TRANSLATION

---

**General**

Title:  
Contract Management

Description:  
-

ID:  
4aa1a3ed-fd74-41bb-ae96-cf7162021cde

Open App:  
In a new tab

**Configuration**

System:  
S4HANA

App UI Technology:  
Dynamic URL

Relative Path to App:  
/sap/bc/ui5\_ui5/ui2/ushell/shells/abap/FioriLaunchpad.html?sap-client=200&sap-language=EN#REvaluation-manage

Parameters:

Name	Value
No data	

Add intent and default SAP parameters to URL

Use intent parameters as URL parameters

**Additional Info**

Keywords:  
-

Created:  
Sep 20, 2021, 7:08:20 PM

Created By:  
Meenakshi A N

Last Modified:  
Oct 13, 2021, 12:02:24 PM

Last Modified By:  
Meenakshi A N

Under Navigation Tab, provide the below details

Semantic Object	ContractMgmt	
Action	displayContract	
Parameters	CompanyCode	<Default Value>
	RealEstateContract	<Default Value>

**Note:** Semantic Object, Action, Parameter Names has to be given exactly same as above.

<

**APP Contract Management**

PROPERTIES   **NAVIGATION**   VISUALIZATION   TRANSLATION

---

**Intent** ⓘ

Semantic Object: ContractMgmt      Action: displayContract

Parameters ⓘ

Name	Default Value	Rename To	Required
CompanyCode			<input type="checkbox"/> NO
RealEstateContract			<input type="checkbox"/> NO

Allow additional parameters

Under Visualization tab, provide the below details

Visualization Type	Static App Launcher
Icon	contacts

Once all above values are entered, click on save button to save the tile changes.  
Assign the created tile to a group and make sure that they are visible to users.

## Deploy Custom ABAP Objects

Custom objects are required to be created in SAP S/4 HANA On-Premise. The steps to configure these custom objects are provided in the attached document.

### Creating CDS

#### Pre-requisite:

1. Eclipse must be installed along with ADT plugins.
2. Developer access and authorizations should be available in SAP S/4 HANA to create CDS views

#### Steps:

1. Open Eclipse in ABAP perspective
2. Go to Files -> New -> ABAP Project
3. Select the system in which you want to create the CDS view
4. Enter the system connection details and credentials
5. Right click on project and the go to New -> Other and select "Data Definition" (Name of CDS will be "ZWF\_RE\_CONTRACT\_STATUS")
6. Copy paste the code in code editor from [ZWF\\_RE\\_CONTRACT\\_STATUS.txt](#) in SAP note **3117468 - Custom code for Lease Contract Termination Workflow Content Package**
7. Click on Save
8. Click on Activate

## Creating OData

### Steps:

1. Go to t-code "SEGW"
2. Click on "Create" to create new project
3. Enter Project as "ZWF\_RE\_CN\_POST\_VALUATION\_SRV", Description as "OData for Posting Real Estate Contract Valuation" and select the required package
4. Expand the newly created project.
5. Right click on "Data Model" folder and then select "Create" -> "Entity Type"
6. Enter "PostValuationResult" as Entity Type Name and select the checkbox of "Create Related Entity Set" (Enter "PostValuationResultSet" as the Entity Set Name)
7. Create the below listed properties under Data Model -> Entity Types -> PostValuationResult -> Properties

Name	Is Key	Edm Core Type	Prec.	Scale	Max	Unit Prop.	Creat.	Upds.	Sorts	Nulls	Flt.	Label	La.	Comp. T.	ABAP Field Name	A.	Semantics
ERRORMESSAGE	<input type="checkbox"/>	Edm.String	0	0	0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	ERRORMESSAGE	<input type="checkbox"/>	<input type="checkbox"/>
RECORDKEY	<input checked="" type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	RECORDKEY	<input type="checkbox"/>	<input type="checkbox"/>
RECORDTYPE	<input type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	RECORDTYPE	<input type="checkbox"/>	<input type="checkbox"/>
LIGHTS	<input type="checkbox"/>	Edm.String	0	0	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	LIGHTS	<input type="checkbox"/>	<input type="checkbox"/>
BUKRS	<input type="checkbox"/>	Edm.String	0	0	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	BUKRS	<input type="checkbox"/>	<input type="checkbox"/>
ACCPRINCIPLE	<input type="checkbox"/>	Edm.String	0	0	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	ACCPRINCIPLE	<input type="checkbox"/>	<input type="checkbox"/>
CERULE	<input type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	CERULE	<input type="checkbox"/>	<input type="checkbox"/>
XPROCEDURE	<input type="checkbox"/>	Edm.String	0	0	60		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	XPROCEDURE	<input type="checkbox"/>	<input type="checkbox"/>
BENOCN	<input type="checkbox"/>	Edm.String	0	0	8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	BENOCN	<input type="checkbox"/>	<input type="checkbox"/>
RECNR	<input type="checkbox"/>	Edm.String	0	0	13		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	RECNR	<input type="checkbox"/>	<input type="checkbox"/>
RECNTXT	<input type="checkbox"/>	Edm.String	0	0	80		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	RECNTXT	<input type="checkbox"/>	<input type="checkbox"/>
RECNTYPE	<input type="checkbox"/>	Edm.String	0	0	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	RECNTYPE	<input type="checkbox"/>	<input type="checkbox"/>
NETAMOUNT	<input type="checkbox"/>	Edm.Double	0	0	0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	NETAMOUNT	<input type="checkbox"/>	<input type="checkbox"/>
CURRENCY	<input type="checkbox"/>	Edm.String	0	0	5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	CURRENCY	<input type="checkbox"/>	<input type="checkbox"/>
PFROM	<input type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	PFROM	<input type="checkbox"/>	<input type="checkbox"/>
PTO	<input type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	PTO	<input type="checkbox"/>	<input type="checkbox"/>

8. Click on Save
9. Right click on "Data Model" folder and then select "Create" -> "Function Import"
10. Enter "PostValuation" as Function Import name and click on ok
11. Enter below mentioned attributes of Function Import

Name	Return Type Kind	Return Type	Return Cardinality	Return Entity Set	HTTP	Action for Entity	Label	La.
PostValuation	Entity Type	PostValuationResult	0..n	PostValuationResultSet	GET	-		<input type="checkbox"/>

12. Create below listed Function Import Parameters under Data Model -> Function Imports -> PostValuation -> Function Import Parameters

Name	EDM Core Type	Prec.	Scale	Max	Unit Reference Par.	Label	La.	ABAP Field Name	A.	Semantics
BUKRS	Edm.String	0	0	4			<input type="checkbox"/>	BUKRS	<input type="checkbox"/>	<input type="checkbox"/>
RECNR	Edm.String	0	0	13			<input type="checkbox"/>	RECNR	<input type="checkbox"/>	<input type="checkbox"/>

13. Click on Save
14. Click on "Generate Runtime Objects" (red color circular) button on top left corner
15. Now go to "Runtime Artifacts" folder, right click on "ZCL\_ZRE\_CN\_CONTRACT\_VA\_DPC\_EXT" and select "Go to ABAP Workbench"
16. Go to Methods -> Inherited Methods and "Redefine" the method "/IWBEF/IF\_MGW\_APPL\_SRV\_RUNTIME~EXECUTE\_ACTION"
17. Copy and paste the code in source code editor from ZWF\_RE\_CN\_POST\_VALUATION\_SRV.txt in SAP note [3117468 - Custom code for Lease Contract Termination Workflow Content Package](#)
18. Click on Save
19. Click on Activate

## Implementing BADI

### Steps:

1. Go to t-code "SE18"
2. Select radio button for "BAdI Name"
3. Enter "BADI\_REC\_N\_CONTRACT" as "BAdI Name"
4. Click on Display button
5. Go to "Enh. Spot Element Definitions" tab
6. On the left side panel, right click on "Implementations" and select "Create BAdI Implementation"
7. Click on "Create Enhancement Implementation" button
8. Give a name for the Enhancement Implementation starting with Z and also enter a meaningful Short Text
9. Select the require package and click on "Ok"
10. Select the newly created BAdI Implementation and click on "Ok"
11. Enter a custom name (starting with Z) for "BAdI Implementation" and "Implementating Class". Also enter a meaningful "Description"
12. Select "Empty Class" option
13. Select a package and click "Ok"
14. Now, go to "Enh. Implementation Elements" tab and double click on "Implementing Class" on left side panel
15. Double click on "IF\_EX\_REC\_N\_CONTRACT~CHECK\_ALL"
16. Go to edit mode and paste the attached code from **BADI\_REC\_N\_CONTRACT – Enhancement.txt** in SAP note 3117468 - Custom code for Lease Contract Termination Workflow Content Package
17. Click on Save
18. Click on Activate
19. Go back and activate the BAdI implementation as well

## Register OData Services in SAP Gateway

### Steps:

1. Go to t-code "/IWFND/MAINT\_SERVICE"
  2. Click on "Add Service"
  3. Select the required System Alias
  4. Enter Technical Service Name as "ZWF\_RE\_CN\_POST\_VALUATION\_SRV" and click on "Get Services"
  5. Select "ZWF\_RE\_CN\_POST\_VALUATION\_SRV" and click on "Add Selected Services"
  6. Enter the required package and click on OK
- Repeat steps 1 to 6 for Technical Service "ZWF\_RE\_CONTRACT\_STATUS\_CDS"