

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Real Estate Contract Valuation Posting Approval using SAP Build Process Automation

Table of Contents

Table of Contents	2
Overview	3
Features.....	3
Solution Diagram.....	3
Required SAP BTP Services	4
Setup and Configuration	4
SAP S/4HANA	4
Configure APIs in SAP S/4HANA	4
Configure Cloud Connector	5
SAP Business Technology Platform Cockpit	5
Configure SAP Build Process Automation	5
Configure Process Automation Destination	5
Configure OAuth2ClientCredentials SAP Build Process Automation Destination (Service Instance)	6
Email Destination	6
Configure OAuth2UserTokenExchange Destination	7
Configure SAP Integration Suite Destination	7
Configure SAP S/4HANA Destination	7
Configure RFC Destination	8
Setup Content Package	9
Import and deploy Integration Suite content	9
Import and deploy SAP UI5 Application content	10
Import SAP Build Process Automation content	11
Appendix	11

Overview

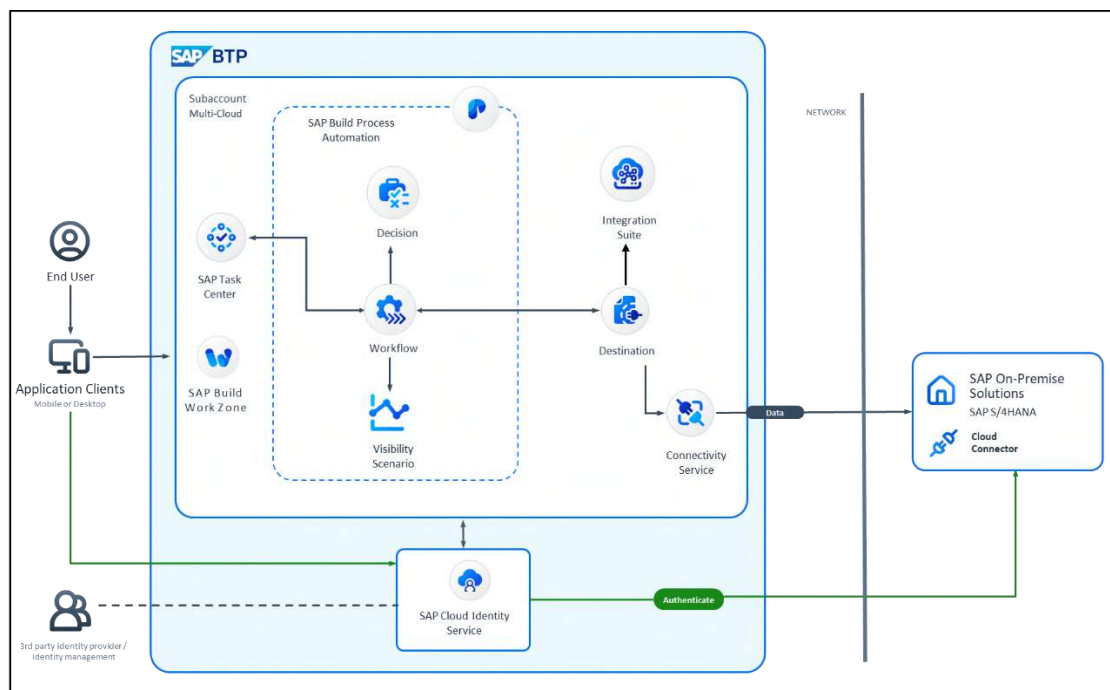
This document provides information about setting up the SAP Business Technology Platform account to consume the workflow content package **Real Estate Contract Valuation Posting Approval**. The main audience of this document are technical IT/system administrators.

This workflow's objective is to have an approval process in place for Right of Use asset values in case of any contract changes. Valuation posting approvals are required in case of contract extensions, contract termination, change in interest value etc.

Features

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

Solution Diagram



Required SAP BTP Services

The workflow content package **Real Estate Contract Valuation Posting Approval** is intended to be used for SAP S/4HANA and requires the following services in SAP Business Technology Platform:

- SAP Build Process Automation
- SAP Integration Suite
- SAP Connectivity service
- SAP Business Application Studio
- SAP Application Runtime Service
- SAP Work Zone, standard or advanced
- SAP Cloud Identity Services - Identity Authentication (optional)

Setup and Configuration

The **Real Estate Contract Valuation Posting Approval** content package requires SAP Build Process Automation subscription. Based on which service you plan to use, follow the appropriate section to configure either SAP Build Process Automation.

SAP S/4HANA

Configure APIs in SAP S/4HANA

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

OData Services:

/sap/opu/odata/sap/API_COMPANYCODE_SRV

/sap/opu/odata/sap/API_COSTCENTER_SRV

/sap/opu/odata/sap/RE_CN_VALUATION_ODATA_SRV

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 “API_COMPANYCODE_SRV” and click on “Get Services”
5. Select “API_COMPANYCODE_SRV” and click on “Add Selected Services”
6. Enter the required package and click on OK
7. Repeat steps 1-6 for all the OData services mentioned in previous section

List of BAPI/RFC which need to be available in SAP S/4 HANA

ZWF_FM_RECEEP_POST_VLTN – To post real estate contract valuation

BAPI_USER_GET_DETAIL – To get email-id of cost center owner

ZWF_FM_HR_MASTER_GET_APPR_MULT – To get approver details

Additionally following Function Modules need to be available in SAP S/4 HANA

ZWF_FM_GET_ACTIVEWF – To check active workflow

ZWF_FM_CASHFLOW_DOC_APPLI – To get cashflow details

Note: Steps to implement custom ABAP objects are mentioned in the Appendix.

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	OData	ABAP System
/sap/opu/odata/sap/API_COSTCENTER_SRV	OData	ABAP System
/sap/opu/odata/sap/RE_CN_VALUATION_ODATA_SRV	OData	ABAP System
ZWF_FM_HR_MASTER_GET_APPR_MULT	RFC	ABAP System
BAPI_USER_GET_DETAIL	RFC	ABAP System
ZWF_FM_RECEEP_POST_VLTN	RFC	ABAP System

SAP Business Technology Platform Cockpit

Configure SAP Build Process Automation

Follow the setup and configuration section of SAP Build Process Automation:

1. [Subscribe to SAP Build Process Automation \(Standard Plan\)](#)
2. [Configure Destinations for Live Process Projects](#)
 - Import Package Destination
 - Decisions Destination to support start and step conditions
3. [Configure SAP Work Zone](#) to access MyInbox and Start Form

Configure Process Automation Destination

A destination is required in the SAP Business Technology Platform subaccount where SAP Build Process Automation is subscribed.

- Create a destination with the name “sap_process_automation_service” with the following configuration if it doesn’t exist already.

Please refer to [create a HTTP destination](#) OAuth 2.0 Authentication (client credentials).

Name	sap_process_automation_service
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token

Configure OAuth2ClientCredentials SAP Build Process Automation Destination (Service Instance)

Ignore this step if there is already a destination using SAP Build Process Automation service instance created.

Create new destination to call SAP Build Process Automation APIs using a service route from SAP UI5 component. For more details, follow the [help document](#):

The screenshot shows the 'Destination Configuration' dialog box with the 'Service Instance' tab selected. The 'Service Instance' dropdown is set to 'sap_processautomation'. The 'Name' field contains 'process_atuomation_service_destination' and the 'Description' field contains 'Call SAP Process Automation APIs using a service route'. There are 'Next' and 'Cancel' buttons at the bottom left, and a 'New Property' button on the right.

The screenshot shows the 'Destination Configuration' dialog box with the 'Additional Properties' tab selected. The 'Name' field is 'process_automation_service_destination' and the 'Type' is 'HTTP'. The 'Description' is 'Call SAP Process Automation APIs using a s...'. The 'URL' is 'https://sap.com/DUMMY_URL', 'Proxy Type' is 'Internet', and 'Authentication' is 'OAuth2ClientCredentials'. The 'Client ID' is 'sb-...' and 'Client Secret' is masked. The 'Token Service URL Type' is 'Dedicated' and the 'Token Service URL' is 'https://...'. The 'Additional Properties' table is as follows:

Property Name	Value
endpoints	{"api":"https://..."}
html5-apps-...	{"app_host_id":"..."}
saasregistry...	true
sap.cloud.s...	com.sap.spa.process...
sap.cloud.s...	spa

The 'Use default JDK truststore' checkbox is checked. There are 'Save' and 'Cancel' buttons at the bottom left.

Email Destination

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

Configure OAuth2UserTokenExchange Destination

Configure a destination (as shown below) with the following parameters:

- Refer help documentation [how to get URL, Client ID, Client Secret and Token Service URL](#). For more information refer to how to [create a HTTP destination](#).

Name	sap_process_automation_workflow_useraction
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2UserTokenExchange
URL	<"endpoints"."api">
Client ID	<"uaa":"clientid">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token
Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: user

Configure SAP Integration Suite Destination

To call an integration flow, a HTTP destination is required in the SAP Business Technology Platform tenant.

- Create a destination called CPI with either Basic **or** OAuth2ClientCredentials.

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 Integration Suite.

WebIDEEEnabled	true
WebIDESystem	CPI
WebIDEUsage	odata_gen

Configure SAP S/4HANA Destination

Configure a S/4 HANA destination to connect with 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*.

Note: This destination is required by Integration Suite (Suite).

Name	<RFC_DESTINATION_NAME>
Type	RFC
Proxy Type	On-premise
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 >

Setup Content Package

Import and deploy Integration Suite content

This package utilizes SAP Integration Suite to provide integration between SAP ERP (or SAP S/4HANA) and SAP Build Process Automation. Further details can be found in dedicated integration guide of the integration package “[SAP Build Process Automation Integration with SAP S/4HANA for Real Estate Contract Valuation Posting Approval](#)”

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 Real Estate Contract Valuation Posting Approval](#)”.
- Click on the package “[SAP Build Process Automation Integration with SAP S/4HANA for Real Estate Contract Valuation Posting 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. Detailed information on the credentials is available on the configuration guide.

In Integration Suite, open Operations view, then click on Security Material to create and deploy security materials.

- **S4HANA** – (User Credentials) To call the OData APIs.
- **WF_CREDENTIAL** – (OAuth2 Client Credentials) To start the approval workflows in SAP Build Process Automation ([help documentation to determine the service configuration parameters](#))

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/HTTP adapter configuration.
- If Approver Determination Strategy is selected as “External Service” in workflow configurations, then a CPI iFlow *Get Approvers for Plan Activity Prices Approval* with the below mentioned endpoint, input and output details will be called to get the required approver details. In case there is a need for implementation of custom CPI iFlow then the same needs to have the below mentioned endpoint, input and output structure.

API Attributes	Values
Path	/http/getApproversrecvpawfm
HTTP Method	POST
Payload sent by workflow (sample data)	<pre>{ "d": { "positions": [{ "companyCode": "4001", "positionID": "50000508" }] } }</pre>

	} }
Response Payload from integration flow	RESPONSE STATUS, Ex 200 OK <pre> { "d": { "status": "Success", "message": "Data fetched successfully", "approvers": [{ "userID": "ABC", "emailID": "abc@abc.com", "name": "ABC ABC", "companyCode": "4001", "positionID": "50000508" }] } } </pre>
Payload Type	Application / JSON

Import and deploy SAP UI5 Application content

Following steps can be followed to utilize the SAP UI5 application provided with this process package:

- Download the SAPUI5 application file from the imported store project, it will available under the file section in the package.
- Open Business Application Studio and import the previously downloaded SAPUI5 project.
- Ensure that you have already created the SAP Build Process Automation instance and the same instance details need to be updated in the mta.yaml file available in the SAP UI5 application project.

The image shows a file explorer on the left with the following files: package-lock.json, package.json, StartUI-content.zip, ui5.yaml, xs-app.json, mta.yaml (highlighted), package-lock.json, README.md, and xs-security.json. On the right, a snippet of the mta.yaml file is shown with line numbers 83 to 90:

```

83 |   service-plan: application
84 |   service: xsuaa
85 |   type: org.cloudfoundry.managed-service
86 | - name: Destination
87 |   type: org.cloudfoundry.existing-service
88 | - name: SBPA-instance
89 |   type: org.cloudfoundry.existing-service
90 |

```

- Update your process definition id (Package needs to be deployed) in the i18n.properties file (property: DEFINITION_ID) as shown in the following snippets (definition id only needs to be updated in start UI application).
- Build SAPUI5 project using mta.yaml file & the generated project (generated mtar file will be available in the mta_archives folder) file can be deployed.

- In case of Start UI, after successful deployment of the project, it can be accessed using through SAP standard work zone & user can provide the required journal entry details & submit the form for the journal entry approval & posting. Please refer configuration guide for more details.

Note:

Destination names need to be updated in xs-app.json that was previous configured in “Configure SAP S/4HANA Destination” section.

Import SAP Build Process Automation content

In the [SAP Build Process Automation Store](#), search for live process package Real Estate Contract Valuation Posting Approval and import the same. Please go to Configuration Guide for further process.

Appendix

Creating Function Group

1) ZWF_FG_UTIL_BTPWF

Steps:

1. Go to t-code “SE37”
2. In Menu, select Go to -> Function Groups -> Create Group
3. Enter Function Group name as “ZWF_FG_UTIL_BTPWF” and enter a meaningful Short Text (Select the required package name to save this object)
4. Go to t-code “SE80”
5. Select “Function Group” from dropdown
6. Enter “ZWF_FG_UTIL_BTPWF” as the name of function group and click on Display button
7. Click on Save
8. Right click on the Function Group “ZWF_FG_UTIL_BTPWF” on the left side panel and “Click on Activate” (Click OK button on the pop-up which shows list of inactive objects)

2) ZWF_FG_RECEEP_BTPWF

Steps:

1. Go to t-code “SE37”
2. In Menu, select Goto -> Function Groups -> Create Group
3. Enter Function Group name as “ZWF_FG_RECEEP_BTPWF” and also enter a meaningful Short Text (Select the required package name to save this object)
4. Go to t-code “SE80”
5. Select “Function Group” from dropdown
6. Enter “ZWF_FG_RECEEP_BTPWF” as the name of function group and click on Display button
7. Right click on “Includes” folder and select “Create” option
8. Enter “ZWF_FG_RECEEP_BTPWF_FORMS” as the name of Include. (Select the required package and click on ok in the successive dialog boxes)
9. Copy and paste the code for “ZWF_FG_RECEEP_BTPWF_FORMS” **from SAP NOTE 3167808** inside the code editor
10. Click on “Save”

11. On the left side panel, expand “Includes” folder and double click on “LZWF_FG_RECEEP_BTPWFTOP”
12. Go to edit mode and paste the code for “LZWF_FG_RECEEP_BTPWFTOP” **from SAP NOTE 3167808** inside the code editor
13. Click on Save
14. Right click on the Function Group “ZWF_FG_RECEEP_BTPWF “on the left side panel and “Click on Activate” (Click OK button on the pop-up which shows list of inactive objects)

Creating Function Modules

1) ZWF_FM_HR_MASTER_GET_APPR_MULT

Steps:

1. Go to t-code “SE37”
2. Click on “Create” button
3. Enter “ZWF_FM_HR_MASTER_GET_APPR_MULT” as name of Function Module
4. Enter “ZWF_FG_UTIL_BTPWF” as Function Group
5. Enter a meaningful short text
6. Click on “Save” (Click on OK in successive pop-ups)
7. Go to “Import” tab and enter the below mentioned entries

Parameter Name	Typing	Associated Type	Default value	Opti...	Pass...	Short text	Long...
I_INPUT	TYPE	ZWF_IP_APPR_T		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Table Type for input of data to get approver deta	Create

8. Go to “Export” tab and create the below entries

Parameter Name	Typing	Associated Type	Pass by Val...	Short text	Long Text
E_OUTPUT	TYPE	ZWF_APPR_DET_MUL_T	<input checked="" type="checkbox"/>	Table type for Approver Details	Create
E_STATUS	TYPE	BAPI_MTYPE	<input checked="" type="checkbox"/>	Message type: S Success, E Error, W Warning, I I	Create

9. Go to “Source Code” tab and paste the attached code for “ZWF_FM_HR_MASTER_GET_APPR_MULT” **from SAP NOTE 3167808**
10. Go to “Attributes” tab and select radio button for “Remote-Enabled”
11. Click on “Save”
12. Click on “Activate” (Click OK button on the pop-up which shows list of inactive objects)

Note: The details of required “Associated Type” (Table Type) used in the Tables tab are mentioned below:

Table Type: Active

Short text:

Attributes | Line Type | Initialization and Access | Primary Key | Secondary Key

Line Type

Built-in type

Data Type:

No. of Characters: Decimal Places:

Structure: ZWF_IP_APPR Active
Short Description: Structure to input data to get approver details

Attributes Components Input Help/Check Currency/quantity fields

Component	Typing Method	Component Type	Data Type	Length	Decimal...	Coordinate	Short Description
COMPANYCODE	Types	BUKRS	CHAR	4	0		@ Company Code
POSITION	Types	PLANS	NUMC	8	0		@ Position

Table Type: ZWF_APPR_DET_MUL_T Active
Short text: Table type for Approver Details

Attributes Line Type Initialization and Access Primary Key Secondary Key

Line Type: ZWF_APPR_DET_MUL

Built-in type

Data Type:
No. of Characters: Decimal Places:

Structure: ZWF_APPR_DET_MUL Active
Short Description: Structure for Approver Details

Attributes Components Input Help/Check Currency/quantity fields

Component	Typing Method	Component Type	Data Type	Length	Decimal...	Coordinate	Short Description
USER_ID	Types	SYSID	CHAR	30	0		@ Communication Identification/Number
ENAME	Types	ENAMN	CHAR	40	0		@ Formatted Name of Employee or Applicant
EMAIL_ID	Types	COMM_ID_LONG	CHAR	241	0		@ Communication: Long Identification/Number
BUKRS	Types	BUKRS	CHAR	4	0		@ Company Code
PLANS	Types	PLANS	NUMC	8	0		@ Position

2) ZWF_FM_CASHFLOW_DOC_APPLI Steps:

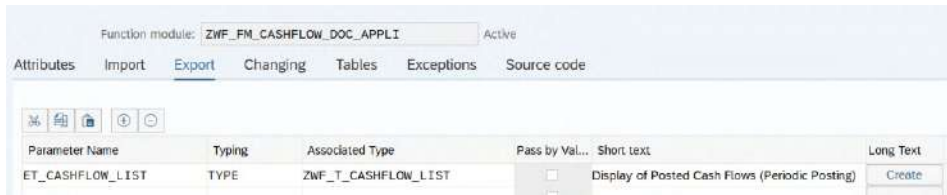
1. Go to t-code "SE37"
2. Click on "Create" button
3. Enter "ZWF_FM_CASHFLOW_DOC_APPLI" as name of Function Module
4. Enter "ZWF_FG_RECEEP_BTPWF" as Function Group
5. Enter a meaningful short text
6. Click on "Save" (Click on OK in successive pop-ups)
7. Go to "Import" tab and enter the below mentioned entries

Function module: ZWF_FM_CASHFLOW_DOC_APPLI Active

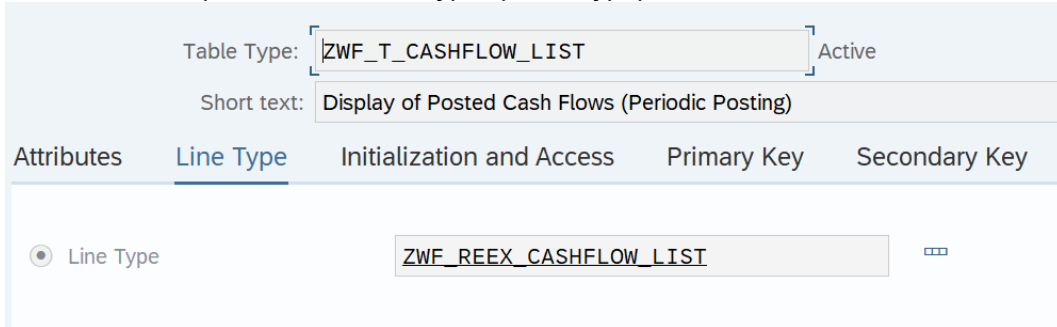
Attributes Import Export Changing Tables Exceptions Source code

Parameter Name	Typing	Associated Type	Default value	Opti...	Pass...	Short text
ITD_DOC	TYPE	RE_T_IF_RERA_DOC		<input checked="" type="checkbox"/>	<input type="checkbox"/>	References to RE Documents
IT_REFDOCID	TYPE	RE_T_REFDOCID		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Table of Document Reference Numbers
IT_DOC_SUMMARY	TYPE	STANDARD TABLE		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ID_MSGLIST	TYPE	IF_RECA_MESSAGE_LIST		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Message Collector
ID_PARAM	TYPE	IF_RERA_POSTING_PARAM_REPP		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Posting Process: Parameters for Periodic Posting
IS_SUMMARY	TYPE	RERA_POSTING_SUMMARY		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Summary of Results of a Posting Run
ID_MODE	TYPE	RECAPROCESSMODE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IF_PREPARE_ONLY	TYPE	RECABOOL	ABAP_FALSE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
IT_CASHFLOW_LIST	TYPE	RE_T_GUI_CASHFLOW_LIST		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ID_DOC_CONTAINER	TYPE	CL_RECA_DATA_CONTAINER		<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8. Go to "Export" tab and create the below entries



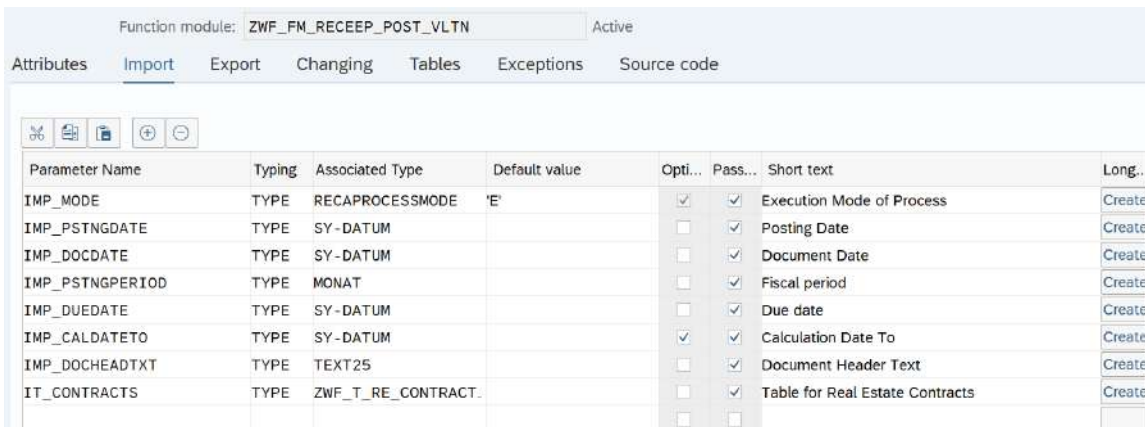
9. Go to “Source Code” tab and paste the attached code for “ZWF_FM_CASHFLOW_DOC_APPLI” **from SAP NOTE 3167808**
 10. Click on “Save”
 11. Click on “Activate” (Click OK button on the pop-up which shows list of inactive objects)
- Note: The details of required “Associated Type” (Table Type) used in the Tables tab are mentioned below:



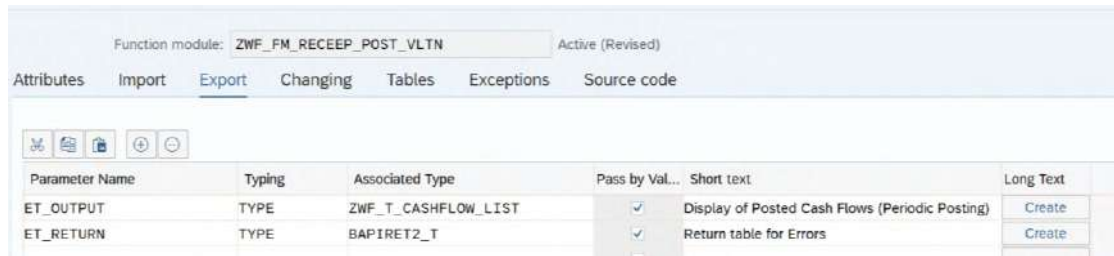
3) ZWF_FM_RECEEP_POST_VLTN

Steps:

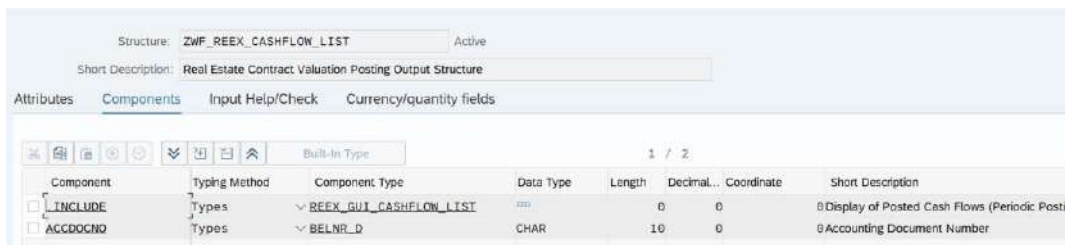
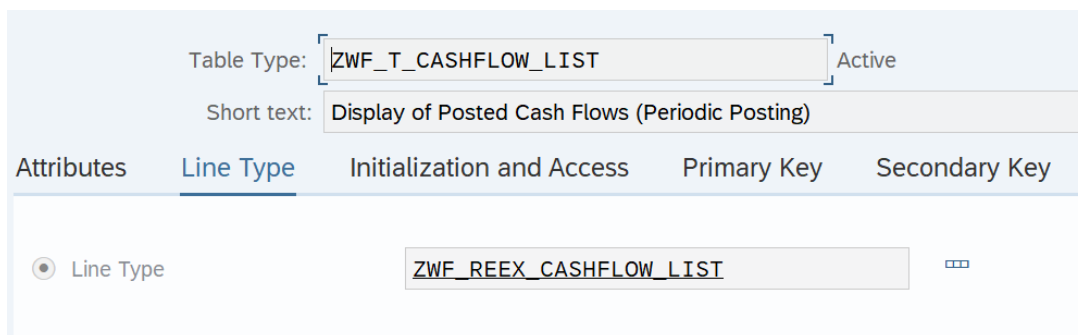
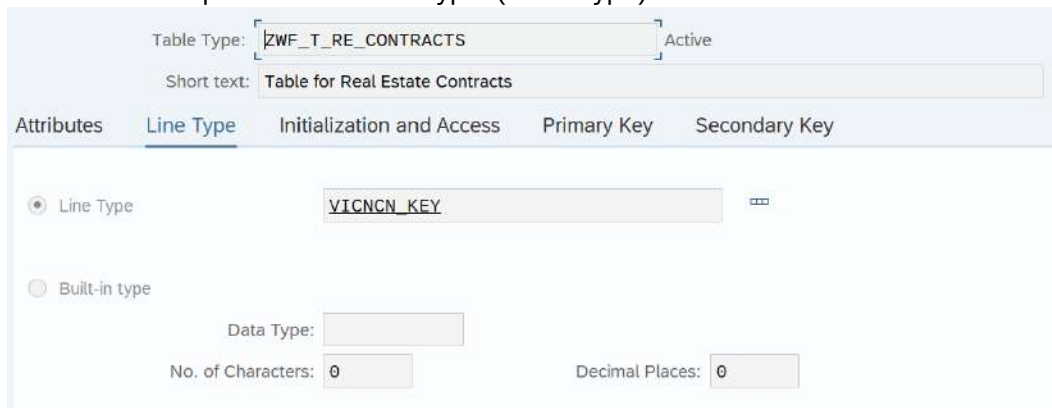
1. Go to t-code “SE37”
2. Click on “Create” button
3. Enter “ZWF_FM_RECEEP_POST_VLTN” as name of Function Module
4. Enter “ZWF_FG_RECEEP_BTPWF” as Function Group
5. Enter a meaningful short text
6. Click on “Save” (Click on OK in successive pop-ups)
7. Go to “Import” tab and enter the below mentioned entries



8. Go to “Export” tab and create the below entries



9. Go to “Source Code” tab and paste the attached code for “ZWF_FM_RECEEP_POST_VLTN” **from SAP NOTE 3167808**
 10. Go to “Attributes” tab and select radio button for “Remote-Enabled”
 11. Click on “Save”
 12. Click on “Activate” (Click OK button on the pop-up which shows list of inactive objects)
- Note: The details of required “Associated Type” (Table Type) used in the Tables tab are mentioned below:



4) ZWF_FM_GET_ACTIVEWF

Steps:

1. Go to t-code “SE37”
2. Click on “Create” button
3. Enter “ZWF_FM_GET_ACTIVEWF” as name of Function Module
4. Enter “ZWF_FG_UTIL_BTPWF” as Function Group
5. Enter a meaningful short text
6. Click on “Save” (Click on OK in successive pop-ups)

- Go to "Import" tab and enter the below mentioned entries

Function module: ZWF_FM_GET_ACTIVEWF Inactive

Attributes Import Export Changing Tables Exceptions Source code

Parameter Name	Typing	Associated Type	Default value	Opti...	Pass...	Short text	Long...
IP_QUERY	TYPE	STRING		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Query for HTTP Request	Create

- Go to "Export" tab and create the below entries

Function module: ZWF_FM_GET_ACTIVEWF Inactive

Attributes Import Export Changing Tables Exceptions Source code

Parameter Name	Typing	Associated Type	Pass by Val...	Short text	Long Text
ES_RETURN	TYPE	BAPIRET2	<input checked="" type="checkbox"/>	Return Parameter	Create
ET_RESULT	TYPE	ZWF_GET_RESULT_T	<input checked="" type="checkbox"/>	Table type for Getting Status of Workflow	Create

- Go to "Source Code" tab and paste the attached code for "ZWF_FM_GET_ACTIVEWF" from SAP **NOTE 3167808**

- Click on "Save"

- Click on "Activate" (Click OK button on the pop-up which shows list of inactive objects)

Note: The details of required "Associated Type" (Table Type) used in the Tables tab are mentioned below:

Table Type: ZWF_GET_RESULT_T Active

Short text: Table type for Getting Status of Workflow

Attributes Line Type Initialization and Access Primary Key Secondary Key

Line Type: ZWF_GET_RESULT

Built-in type

Data Type:

No. of Characters: Decimal Places:

Structure: ZWF_GET_RESULT Active

Short Description: Structure for workflow

Attributes Components Input Help/Check Currency/quantity fields

Component	Typing Method	Component Type	Data Type	Length	Decimal...	Coordinate	Short Description
DEFINITIONID	Types		CHAR	255	0		Workflow Definition ID
STATUS	Types		CHAR	30	0		Status of Workflow
BUSINESSKEY	Types		CHAR	100	0		Business Key
ID	Types		CHAR	36	0		Instance ID

Implementing BADI

Steps:

- Go to t-code "SE18"
- Enter "BADI_REC_N_CONTRACT" as the BADI Name
- Click on "Display" button
- In the menu, click on "Implementation" and subsequently on "Create"
- Upon being prompted to enter the Enhancement Implementation Name, enter

“ZWF_EI_RECONTRACTVAL”

6. Click on the “Okay” button in the pop-up or just press “Enter”
7. Enter a meaningful description
8. Upon being prompted to enter the BADI Implementation Name, enter “ZWF_BI_RECONTRACTVAL” and meaningful description
9. Upon being prompted to enter the Implementation Class Name, enter “ZWF_CL_RECONTRACTVAL”
10. Select “Empty class” to continue
11. Double click on the name of the implementing class and alter the method “IF_EX_REC�N_CONTRACT~CHECK_ALL” by pasting the code from “IF_EX_REC�N_CONTRACT~CHECK_ALL” from **SAP NOTE 3167808** in the method
12. Save and activate the newly created object like Class, Method, BADI implementation, Enhancement implementation

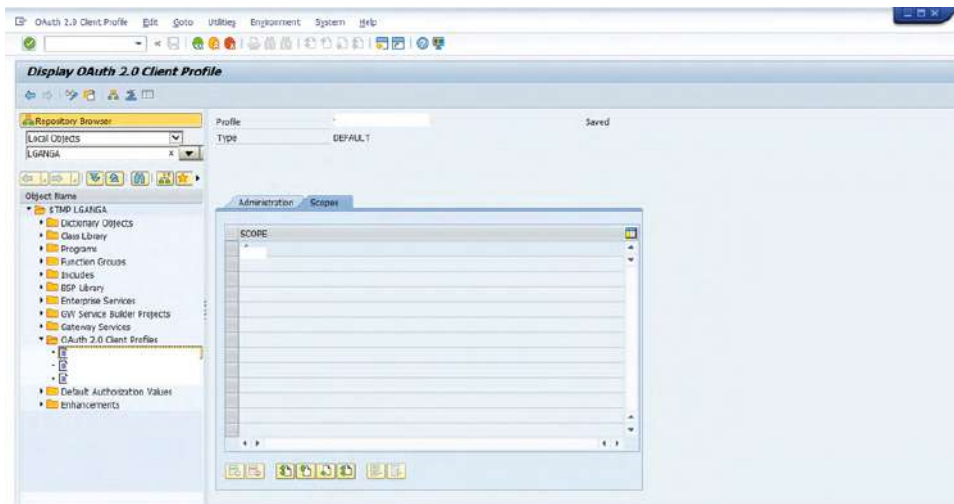
Configuration of RFC Connections:

1. Go T-Code SM59.
2. Create New RFC destination as “WF_DEST” and Connection Type as “G”
3. Under Technical Settings enter the host name of the BTP Workflow API and Path Prefix as “/workflow-service/rest/v1/workflow-instances”

The screenshot shows the configuration interface for an RFC destination in SAP. The 'RFC Destination' is set to 'WF_DEST'. The 'Connection Type' is 'G' (HTTP Connection to External Server). The 'Description' field contains 'Destination for BTP Workflow API'. The 'Technical Settings' tab is active, showing 'Target System Settings' with 'HOST' set to 'api.workflow-sap.cfapps.eu10.hana.ondemand.com' and 'Path Prefix' set to '/workflow-service/rest/v1/workflow-instances'.

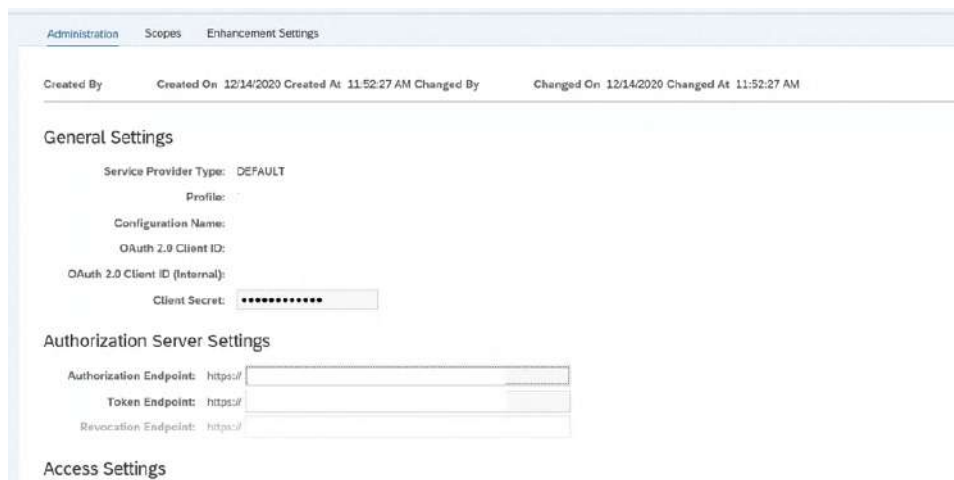
Creating OAuth2.0 client profile:

1. Start the object navigator (transaction SE80).
2. Choose Development Object in the dropdown list.
3. To create a development object in the SAP namespace, choose Create OAuth 2.0 Client Profile in the context menu of the object name.
4. Enter the object name in the Client Profile field of the popup as ‘ZOAUTH_CLIENT_PROFILE’.
5. choose the type of service provider as ‘DEFAULT’
6. Also provide the scope as configured in the service provider configuration and activate the client profile.



Configure the OAuth2.0 Client

1. Go to transaction OA2C_CONFIG to configure the OAuth2.0
2. Click on 'Create'.
3. Select the OAuth2.0 Client Profile as 'ZOAUTH_CLIENT_PROFILE' and provide the Client ID.
4. Maintain the Client Secret
5. Also provide the Token Endpoint.
6. Enter the Client Authentication as 'Basic', Resource Access Authentication as 'Header Field' and select grant type as 'Client Credentials'.
7. Click on save. The OAuth2.0 configuration name is 'ZOAUTH_CLIENT_PROFILE'



Now the OAuth2.0 configuration is completed.