

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Configuration Guide

Real Estate Contract Valuation Posting Approval using SAP Build Process Automation or SAP Workflow Management

Table of Contents

Table of Contents.....	2
Overview.....	3
Features.....	3
Artifacts.....	4
Process	4
Process Variants	5
Import Real Estate Contract Renewals Posting Approval and Configure Process Variants with SAP Build Process Automation.....	6
Import Real Estate Contract Renewals Posting Approval and Configure Process Variants with SAP Workflow Management.....	6
Decisions & Policies	7
Approver Determination Strategy	7
Determine Administrators.....	9
Determine Approvers	9
Determine Position	10
Vocabulary Business Rule.....	11
Determine Approvers from External Service.....	12
Process Visibility	12
Configure Visibility Scenarios in SAP Build Process Automation.....	13
Configure Visibility Scenarios in SAP Workflow Management.....	13
Access Process Workspace in SAP Build Process Automation	13
Access Process Workspace in SAP Workflow Management	14

Overview

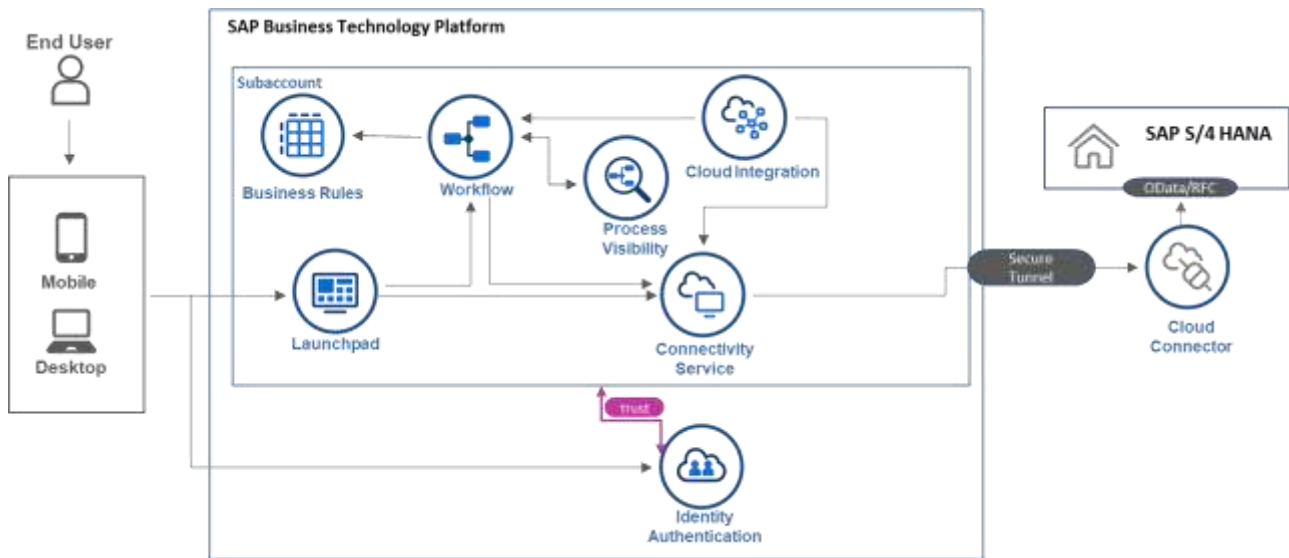
This document provides information about configuration steps to consume the package **Real Estate Contract Renewals Posting Approval**. The main audience of this document are Treasury Experts, Credit Controllers, Developers and Product Owners.

Objective of this workflow is to have approval process in place for ROU asset values in case of any changes to contract. 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 Business Rules or external service.
- Pre-built integration content to call SAP S/4HANA from SAP Build Process Automation or SAP Workflow Management
- Out-of-the-box visibility into key process performance indicators.

Solution Diagram



Artifacts

A package consists of process templates, process steps, process variants, decisions, and process visibility models. Please refer [help documentation](#) about these artifacts.

Process

A process template is a set of business activities and tasks that, once completed, fulfills an organization goal. The **Real Estate Contract Valuation Posting Approval** package contains the following process template:

Real Estate Contract Valuation Posting Approval– Deals with approval process for Right of Use assets in the event of change of contract.

A business process can be broken down logically into smaller parts or steps. Each process step is a collection of activities to perform a specific task. For example, an approval process step can contain activity to determine the approvers, approval task, notifications, and handle the approval result. Table 1 represents the list of process steps/sub flows available to be used in **Real Estate Contract Valuation Posting Approval**.

Table 1. Process Steps

Process Steps	Cardinality	Detailed Description
Cost Center Owner Approval	1..1 = mandatory step	Workflow for the Cost Center Owner to take the action on the Real Estate Contract Valuation Posting.
Approval	0..N = Optional Step	Workflow for the Approver to take the action on the Real Estate Contract Valuation Posting.
Post Real Estate Contract Valuation Posting	1..1 = mandatory step	Post Real Estate Contract Valuation Posting in the S/4 HANA system.

A process step can have customizable properties and they could influence the outcome of the process step. For example, the Approval step can be reused multiple times and based on the properties the approver is determined. Please see Table 2 for more details.

Table 2. Process Step Properties

Process Attributes	Detailed Description
Company Code	Company code for which contract valuation posted.
Cost Center	Cost center for which contract valuation posted.
Document Date	Date on which contract valuation posted.
Contract Type	Type of contract valuation posted.
Contract	Contract valuation id.

Due Date	Date on which contract valuation posted is due.
Posting Date	Date on which contract valuation posted.
Contract Value	Value of contract posted.
Calculation Date To	Date on which contract valuation calculated.
Posting Period	Company code for which contract valuation posted.

Sample Context with & without Start Conditions:

```
{
"valuationPostingDetails": {
"companyCode": "4001",
"companyCodeDesc": "LP Company Code US- Ops",
"documentDate": "2022-07-01",
"costCenter": "40011000",
"contractType": "CU05",
"contractTypeDesc": "Lease-In Valuation BU/PR",
"contract": "2000102",
"contractDesc": "Workflow test data 12",
"dueDate": "2022-07-31",
"postingDate": "2022-07-01",
"documentHeaderText": "Valuation: July 2022",
"createdByEmail": "xyz@sample.com",
"contractValue": "216000.00",
"currency": "USD",
"yearofPostingRun": "2022",
"calculationDateTo": "",
"createdBy": "xyz",
"postingPeriod": "7",
"monthofPostingRun": "7",
"valuationPostingKey": "4001_2000102"
}
}
```

Process Variants

A process variant consists of multiple process steps configured by a line of business expert. It is possible to create multiple variants of the same process.

Please refer [help documentation](#) about how to import content packages and configure a process

variant.



Default Variant

Import Real Estate Contract Renewals Posting Approval and Configure Process Variants with SAP Build Process Automation

1. In the [SAP Build Process Automation Store](#), search for live process package Real Estate Contract Renewals Posting Approval and import the same. This content package has one process template and process variant(s) for that template.
2. In the Application Development [Lobby](#), click to open the package with name Real Estate Contract Renewals Posting Approval. This opens the package in a new tab/window.
3. Click the + icon next to the process template to create a new process variant.
4. Enter Name of the new Process Variant (ex, Two Step Approval).
5. Click the newly created Process Variant tile to save and activate the process variant.
6. The process variant has a default implementation with two steps and at least one level of approval.
7. It is possible to remove steps like "Approval for Real Estate Contract Renewals Posting Approval" from a process variant only if there are multiple approvals. Please note that whether a step is mandatory or optional, and how many a times any step can be used within a variant, are dependent on the constraints defined on the process steps.
8. Save and activate the variant. A successful activation will create a new workflow definition in the account that can be viewed in the [Monitor Processes and Workflows app](#).

Import Real Estate Contract Renewals Posting Approval and Configure Process

Variants with SAP Workflow Management

1. In Process Flexibility Cockpit app, search for content package Real Estate Contract Renewals Posting Approval and import the same. Please refer the standard help document about [how to import a content package](#). This content package has one process template and process variant(s) for that template.
2. Open content package in Flexibility Cockpit and click Process Variants tile.
3. Click New Process Variant.
4. Enter Name of the new Process Variant (ex, default) and select “Real Estate Contract Renewals Posting Approval” as Process.
5. Click the newly created Process Variant tile to save and activate the process variant.
6. The process variant has a default implementation with two steps and at least one level of approval.
7. It is possible to remove steps like “Approval for Real Estate Contract Renewals Posting Approval” from a process variant only if there are multiple approvals. Please note that whether a step is mandatory or optional, and how many a times any step can be used within a variant, are dependent on the constraints defined on the process steps.
8. Save and activate the variant. A successful activation will create a new workflow definition in the account that can be viewed in the Monitor Workflows – Workflow Definition app in SAP Fiori Launchpad.

Decisions & Policies

Decisions allow to encapsulate the business logic from core applications and supports the reuse of business rules across different business processes. Decisions enable customers to adopt changes in processes without changing the underlying workflows or application logic. SAP Build Process Automation or SAP Workflow Management has business rules capabilities that enables customers to centrally manage all decisions. Please go through the [business rules capabilities](#) in SAP Build Process Automation or SAP Workflow Management.

Emission Data Management enable customers to flexibly configure decisions to gain flexibility to

1. Approver Determination Strategy
2. Determine Task Due Date
3. Determine Administrators
4. Determine Approvers
5. Determine Position

Approver Determination Strategy

Based on the business requirement approver can be determined by external service or business rules.

Rule Service Name: Approver Determination Strategy

Input

Name	Label	Description	Business Data Type
CompanyCode	Company Code	Company Code is belongs to this posting valuation	String
ApprovalStep	Approval Step	Approval Step of the level of the approvers	String
DocumentDate	Document Date	Document date of contract valuation posting.	Date
PostingDate	Posting Date	Posting date of contract valuation posting.	Date
CalculationDateTo	Calculation Date To	Calculation date of contract valuation posting.	Date
ContractValue	Contract Value	Contract value of contract valuation posting.	String
PostingPeriod	Posting Period	Posting period of contract valuation posting.	String
MonthOfPostingRun	Month Of Posting Run	Month of Posting contract valuation posting.	String
YearOfPostingRun	Year Of Posting Run	Year of Posting contract valuation posting.	String
DueDate	Due Date	Due date of contract valuation posting.	Date
ContractNumber	Contract Number	Contract Number is created for this posting valuation.	String
ContractType	Contract Type	Contract Type to which valuation posting belongs to.	String
CostCenter	Cost Center	Cost Center is belongs to this posting valuation	String

Result

Name	Label	Description	Business Data Type
DeterminationStrategy	Determination Strategy	Approver Determination Strategy can either "Business Rule" or "External Service" depending on contract details.	String

Rule

if	Then
<input type="checkbox"/> Approval Step <input type="checkbox"/> MATCHES "1"	Determination Strategy <input type="text" value="Business Rule"/>

Determine Administrators

Determine administrators in case of any errors in fetching the approvers for Real Estate Contract Valuation Posting Approval.

Rule Service Name: Determine Administrators

Input: Refer – Approver Determination Strategy Rule [Input section](#).

Result

Name	Label	Description	Business Data Type
UserId	User ID	User ID of the administrator	String
UserGroup	User Group	User Group of the administrator	String
Email	Email	Email ID of the administrator	String

Rule

if	Then
<input type="checkbox"/> Approval Step <input type="checkbox"/> MATCHES '*'	Email: 'admin@example.com' User Group: 'Admin_GroupId' User ID: 'Admin_UserId'

Determine Approvers

Determine approvers for an approval step in Real Estate Contract Valuation Posting Approval.

Rule Service Name: Determine Approvers

Input: Refer – Approver Determination Strategy Rule [Input section](#).

Result

Name	Label	Description	Business Data Type
UserId	User ID	User ID of the approver	String
UserGroup	User Group	User Group of the approver	String
Email	Email	Email of the approver	String
DueDuration	Due Duration	Due Duration for approval	Number
UnitofTime	Unit of Time	Unit of Time for duration	String

Rule Definition

if					Then		
<input type="checkbox"/> Contract Number	<input type="checkbox"/> Contract Type	<input type="checkbox"/> Cost Center	<input type="checkbox"/> Company Code	<input type="checkbox"/> Approval Step	Email	User Group	User ID
MATCHES '*'	MATCHES '*'	MATCHES '*'	MATCHES '*'	MATCHES '*'	'example@emai...	'Approver_Grou...	'Approver_UserId'

Determine Task Due Date

Determine the due date duration for each step of the Real Estate Contract Valuation Posting Approval

Rule Service Name: Determine Task Due Date

Input: Refer – Approver Determination Strategy Rule [Input section](#).

Refer – Determine Approver Rule Result section.

Rule Definition

Text Rule

▼ If

Contract Valuation Posting Details.Approval Step = 'Cost Center Owner'

Then

Unit of Time: 'D'

Due Duration: 1

Text Rule

> If

▼ Else

Unit of Time: 'D'

Due Duration: 1

Determine Position

Determine the position who approves for each step of the Real Estate Contract Valuation Posting Approval

Input: Refer – Approver Determination Strategy Rule [Input section](#).

Result

Name	Label	Description	Business Data Type
PositionNumber	Position Number	Position number of person who approves contract posting valuation request.	String
PositionName	Position Name	Position Name of person who approves contract posting valuation request.	String

Rule

#					Then		
<input type="checkbox"/>	Company Code	Contract Number	Contract Type	Cost Center	Approval Step	Position Name	Position Number
<input type="checkbox"/>	MATCHES '*'	MATCHES '*'	MATCHES '*'	MATCHES '*'	MATCHES '*'	'XYZ'	'1'

Vocabulary Business Rule

Name	Label	Description	Business Data Type
companyCode	Company Code	Company Code to which contract valuation is posted.	String
contractType	Contract Type	Type of contract of contract valuation posted.	String

Determine Approvers from External Service

If external service is used to determine the approvers, then document what are the requirements – destination, api, api signature, etc.

API Attributes	Values
Path	/http/getApproversrecvpawfm
HTTP Method	GET
Payload sent by workflow (sample data)	<pre>{ "d": { "positions": [{ "companyCode": "4001", "positionID": "50000508" }] } }</pre>
Response Payload from integration flow	<p>RESPONSE STATUS, Ex 200 OK</p> <pre>{ "d": { "approvers": [{ "userID": "app1", "emailID": "app1@test.com", "name": "Approver 1" }] } }</pre> <p>Note: When Status is not 200, then it is considered a failed service call.</p>
Payload Type	Application / JSON

Process Visibility

Process Visibility capability in SAP Build Process Automation or SAP Workflow Management enables Process Owners and Process Operators to gain real time visibility on processes and key

process performance indicators. It also enables customers gain out of the box process visibility into their deployed processes. Please refer [help documentation](#) for more details.

Real Estate Contract Valuation Posting Approval process content package provide out of the box visibility on all the process variants in SAP Build Process Automation or SAP Workflow Management. Line of business expert will be able to enhance the visibility scenario to their requirements.

Configure Visibility Scenarios in SAP Build Process Automation

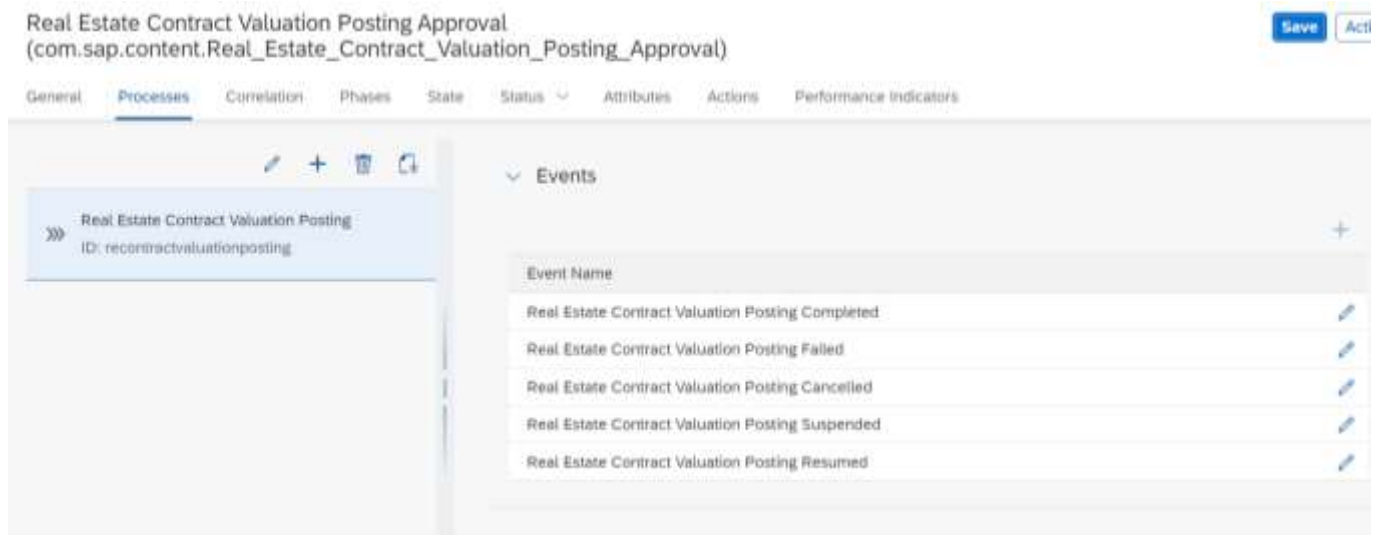
1. Go to the Application Development Lobby.
2. Select Real Estate Contract Renewals Posting Approval Project.
3. Click to open **Real Estate Contract Renewals Posting Approval** scenario.
4. Click Activate button.

Please go through the [help documentation](#) on how to configure the visibility scenario.

Configure Visibility Scenarios in SAP Workflow Management

1. Go to Process Flexibility Cockpit.
2. Select Real Estate Contract Valuation Posting Approval tile.
3. Click Visibility Scenarios tile.
4. The following process is configured

Real Estate Contract Valuation Posting Approval: Contains approval process events and context, sent by SAP Build Process Automation or SAP Workflow Management.



Access Process Workspace in SAP Build Process Automation

1. The process visibility scenario can be accessed using SAP Launchpad Service. Refer to the help document for [creating UI applications on central SAP Fiori Launchpad](#) for SAP Build Process Automation.
2. Once you have added the applications process Visibility Scenario Instances (with app ID com.sap.spa.pv.instances) and Visibility Scenario Dashboard (with app ID com.sap.spa.pv.ovp),

follow the below steps to add a tile to access the Real Estate Contract Renewals Posting Approval dashboard.

- a. Navigate into “Visibility Scenario Dashboard”.
- b. On the screen that opens, choose Create a Local Copy.
- c. To use custom texts, choose Edit and adapt the texts in the General section.
- d. You can use a custom title, description, and subtitle for the tile.
- e. Choose the Navigation tab.
- f. Under the Intent section, ensure that the value in the Action tab is unique for every application.
- g. Under the Parameters section, provide the following:

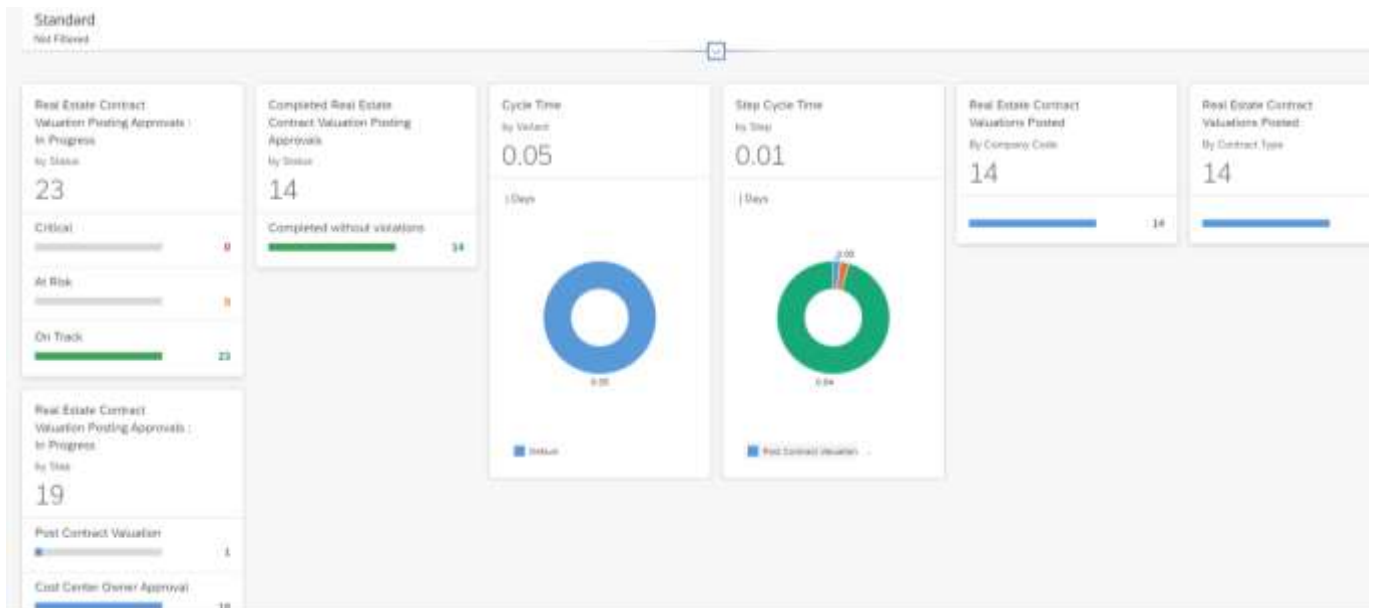
Parameter Name	Parameter Value
Name	scenariold
Default Value	com.sap.content.Real_Estate_Contract_Valuation_Posting_Approval
Required	Toggle to Yes

- h. Choose Save.
- i. Assign the local copy to a group and make sure that they’re visible to users. For more information, see [Assign Apps to a Group and to a Catalog](#) and [Assign Content to a Role](#).

3. Once created, select app that corresponds to “Real Estate Contract Renewals Posting Approval”.
4. User will see the process visibility dashboard below.

Access Process Workspace in SAP Workflow Management

1. Go to Process Flexibility Cockpit
2. Select **Real Estate Contract Valuation Posting Approval** tile
3. Click Live Process Insights **Real Estate Contract Valuation Posting Approval**
4. User will see the below detailed process visibility dashboard.



Please go through [help documentation](#) on how to access process workspace.