

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Configuration Guide

Joint Venture Cash Call Approval using SAP Build Process Automation or SAP Workflow Management

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Overview

This document provides information about configuration steps to consume the package **Joint Venture Cash Call Approval**. The main audience of this document are Business Process Experts and Process Operators.

The objective of the workflow is to automate workflow to cash call request to different approvers. The JV cash call process allows the operator to invoice partners for future estimated venture costs. Based on an estimate of the future costs, non-operating partners are invoiced for their share of the costs to be incurred.

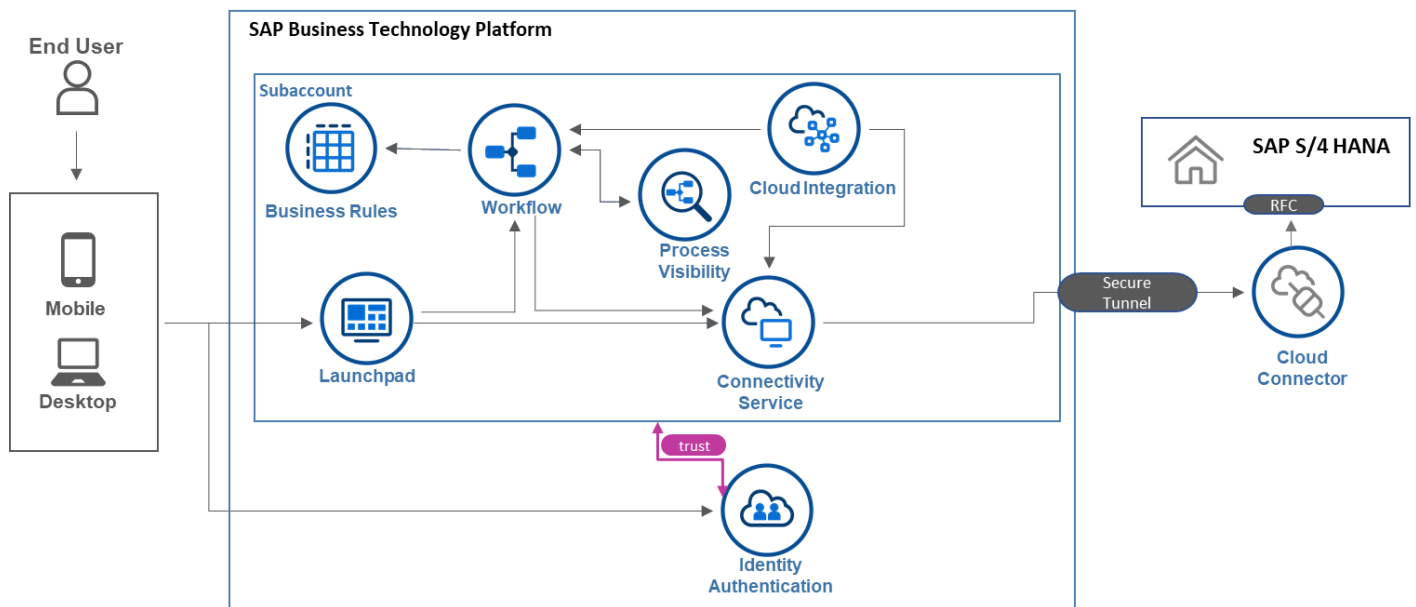
The standard cash call process does not allow to route cash call request to different internal approver(s) before request sent to JV partner.

This extension fills that void and allow to send cash call request to different approver(s) before the request is posted to the system. This extension will notify relevant persons about the cash call request made to JV partner.

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 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 **Joint Venture Cash Call Approval** package contains the following process template:

Joint Venture Cash Call Approval– Cash calls are requests for payment for anticipated future capital and operating expenditures, sent by joint venture operators to non-operating partners.

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 Joint Venture Cash Call Approval.

Table 1. Process Steps

Process Steps	Cardinality	Detailed Description
Cost object approval	1..1 = mandatory step	Workflow for the Cost object owner to take the action on the JV cash call
Supervisor approval	1..1 = mandatory step	Workflow for the JV supervisor to take the action on the JV cash call
Post Cash Call	1..1 = mandatory step	Workflow step for posting the JV cash call

Table 2. Process Attributes.

Process Attributes	Detailed Description
Company Code	Company Code of Joint Venture Cash call
Operational Month	Operational Month of Joint Venture cash call
Cash Call Key	Business Key to uniquely identify joint venture cash calls raised for approval.

Sample Context with Start Conditions

```
{
  "cashCallDetails":{
    "companyCode":"4001",
```

```

"docInformation":{
  "companyCode":"4001",
  "partner": "",
  "batchNumber":"UTAK000009",
  "effectiveDate":"20211101",
  "postingDate":"20211101",
  "postingPeriod":"11",
  "operationalMonth": "",
  "cashCallKey":"4001_UTAK000009_0000000000",
  "cashCallType":"gross",
  "requestorID":"XXX",
  "requestorEmail":"XXX@example.com"
},
"cashCallInformation":[
  {
    "jointVenture":"002000",
    "jointVentureDescription":"OPERATED VENTURE",
    "equityGroup":"EG3",
    "partner":"0000000006",
    "costCenter": "",
    "WBS":"00000418",
    "order": "",
    "fundCurrency":"USD",
    "fundAmount":"20.000,00",
    "costObjectOwnerId":"YYY",
    "costObjectOwnerEmail":"YYY@example.com"
  }
]

```

Sample Context without Start Conditions

```

{
  "cashCallDetails":{
    "companyCode":"4001",
    "docInformation":{
      "companyCode":"4001",
      "partner": "",
      "batchNumber":"UTAK000009",
      "effectiveDate":"20211101",
      "postingDate":"20211101",

```

```
"postingPeriod":"11",
"operationalMonth":"",
"cashCallKey":"4001_UTAK000009_0000000000",
"cashCallType":"gross",
"requestorID":"XXX",
"requestorEmail":"XXX@example.com"
},
"cashCallInformation":[
{
"jointVenture":"002000",
"jointVentureDescription":"OPERATED VENTURE",
"equityGroup":"EG3",
"partner":"0000000006",
"costCenter":"",
"WBS":"00000418",
"order":"",
"fundCurrency":"USD",
"fundAmount":"20.000,00",
"costObjectOwnerId":"YYY",
"costObjectOwnerEmail":"YYY@example.com"
}
]
```

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.

The screenshot displays the SAP Process Variant configuration interface. At the top left, there is a 'Default' button with a right-pointing arrow. To the right are buttons for 'Undo', 'Redo', 'Save', and 'Activate', along with a small square icon. Below the 'Default' button is a section titled 'Available Steps (3)' containing three step cards:

- Cost Object Approval**: Cost Object Owner Approval Workflow for JV Cash Call
- Post Cash Call**: Post Cash Call Approval Status to S/4 HANA
- Supervisor Approval**: Supervisor Approval for JV Cash Call

The central part of the interface shows a flow diagram with a green start circle at the top, followed by three rectangular step boxes: 'CostObjectApproval', 'SupervisorApproval', and 'Post Cash Call'. Each step box has a green checkmark icon and a lock icon. The flow ends at a red circle at the bottom. To the right of the flow diagram are navigation icons (a four-way arrow, a plus sign, a minus sign, and a zoom level of 100%).

On the right side, the 'Process Variant Properties' panel is visible, with the 'Start Conditions' tab selected. It contains the text: 'Only start the variant if all of the following conditions are met:'. Below this, there is a dropdown menu for 'Cash Call Details.Company Code' with the value 'XYZ' displayed. There is also a plus sign icon and a button labeled 'Add Alternate Conditions'.

Import Joint Venture Cash Call Approval and Configure Process Variants with SAP Build Process Automation

1. In the [SAP Build Process Automation Store](#), search for live process package Joint Venture Cash Call 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 Joint Venture Cash Call 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 Joint Venture Cash Call 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 Joint Venture Cash Call Approval and Configure Process Variants with SAP Workflow Management

1. In Process Flexibility Cockpit app, search for content package Joint Venture Cash Call 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 “Joint Venture Cash Call 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 Joint Venture Cash Call 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.

Joint Venture Cash Call Approval enable customers to flexibly configure decisions to gain flexibility to

1. Approver Determination Strategy
2. Determine Task Due Date
3. Determine Administrator
4. Determine Approver

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 to which the JV cash call belongs to.	String >
JointVenture	Joint Venture	Joint Venture of the cash call.	String >
ApprovalStep	Approval Step	Unique identification of the approval step.	String >

Output:

Name	Label	Description	Business Data Type
DeterminationStrategy	Determination Strategy	Determination strategy can either "Business Rule" or "External Service" depending on cash call details	String >

Rule Definition



Approver Determination Strategy

Details

Text Rule

Text Rule

▼ If

Cash Call Details.Approval Step = 'JVSupervisor'

Then

Determination Strategy: 'Business Rules'

Determine Administrators

Determine administrators in case of any errors in fetching the approvers for JV cash call approval.

Rule Service Name: Determine Administrators

Input:

Name	Label	Description	Business Data Type
CompanyCode	Company Code	Company Code to which the JV cash call belongs to.	String >
JointVenture	Joint Venture	Joint Venture of the cash call.	String >
ApprovalStep	Approval Step	Unique identification of the approval step.	String >

Output:

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

Rule Definition

Approval Step	Email	User Group	User ID
= 'CostObjectOwner'	'email@example.com'	'email@example.com'	'email@example.com'
= 'JVSupervisor'	'email@example.com'	'email@example.com'	'email@example.com'

Determine Approvers

Determine approvers for a approval step in JV cash call approval process.

Rule Service Name: Determine Approvers

Input:

Name	Label	Description	Business Data Type
CompanyCode	Company Code	Company Code to which the JV cash call belongs to.	String >
JointVenture	Joint Venture	Joint Venture of the cash call.	String >
ApprovalStep	Approval Step	Unique identification of the approval step.	String >

Output:

Name	Label	Description	Business Data Type
UserId	User ID	User ID of the approver responsible for JV cash call approval.	String >
UserGroup	User Group	Group ID of the approvers responsible for JV cash call approval.	String >
Email	Email	Email address of the approvers responsible for JV cash call approval.	String >
SupervisorEmail	Supervisor Email	Email address of the supervisor.	String >
DueDuration	Due Duration	Due Duration	Number >
UnitofTime	Unit of Time	Unit of Time	String >

Rule Definition

If			Then			
Company Code	Joint Venture	Approval Step	Supervisor Email	Email	User Group	User ID
= 'XYZ'	= 'XYZ'	= 'JVSupervisor'	'email@example....'	'email@example....'	'Approver_GroupId'	'Approver_UserId'

Determine Task Due Date

Determine the due date duration for each step of the JV cash call approval process.

Rule Service Name: Determine Task Due Date

Input:

Name	Label	Description	Business Data Type
CompanyCode	Company Code	Company Code to which the JV cash call belongs to.	String >
JointVenture	Joint Venture	Joint Venture of the cash call.	String >
ApprovalStep	Approval Step	Unique identification of the approval step.	String >

Output:

Name	Label	Description	Business Data Type
Userid	User ID	User ID of the approver responsible for JV cash call approval.	String >
UserGroup	User Group	Group ID of the approvers responsible for JV cash call approval.	String >
Email	Email	Email address of the approvers responsible for JV cash call approval.	String >
SupervisorEmail	Supervisor Email	Email address of the supervisor.	String >
DueDuration	Due Duration	Due Duration	Number >
UnitofTime	Unit of Time	Unit of Time	String >

Rule Definition

Text Rule

▼ If

Cash Call Details.Approval Step = 'CostObjectOwner'

Then

Unit of Time: 'D'

Due Duration: 1

Else If (1)

Cash Call Details.Approval Step = 'JVSupervisor'

Then

Unit of Time: 'D'

Due Duration: 1

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

JV Cash Call Vocabulary Rules for Start and Step Conditions

Name	Label	Description	Business Data Type
companyCode	Company Code	Company Code of Joint Venture cash call	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/getApproversJVcashcallwfm
HTTP Method	GET
Payload sent by workflow (sample data)	<pre>{ "d": { "CashCall" : \$. Refer to Sample Context without Start Conditions under section Process --, "Role" : "JV Supervisor" } };</pre>
Response Payload from integration flow	<p>RESPONSE STATUS, Ex 200 OK</p> <pre>"ApproverRulesResult": {"d": {"approvers": [{"supervisorEmail": "email@example.com", "email": "email@example.com", "userGroup": "Approver_GroupId", "userId": "Approver_UserId"}]}}</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.

Joint Venture Cash Call 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 Joint Venture Cash Call Approval Project.
3. Click to open **Joint Venture Cash Call 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 **Joint Venture Cash Call Approval** tile.
3. Click Visibility Scenarios tile.
4. User will get the following screens

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 Joint Venture Cash Call 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.Joint_Venture_Cash_Call_Approval

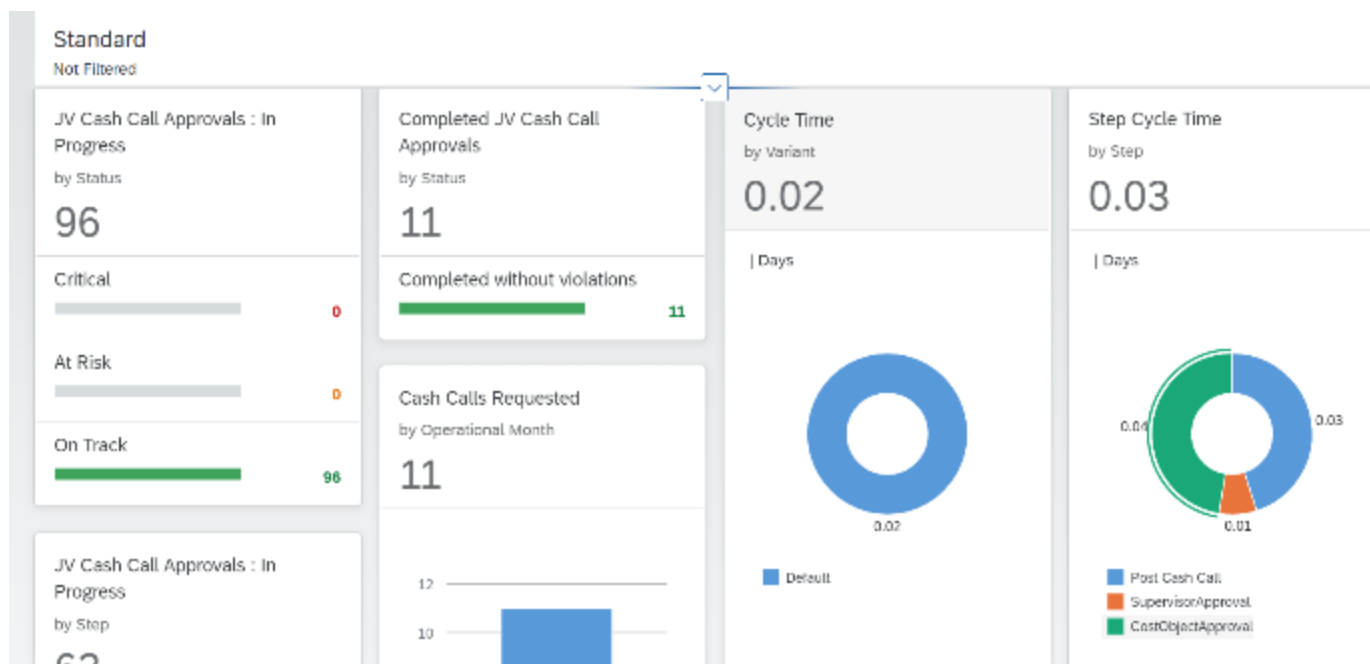
Required	Toggle to Yes
----------	---------------

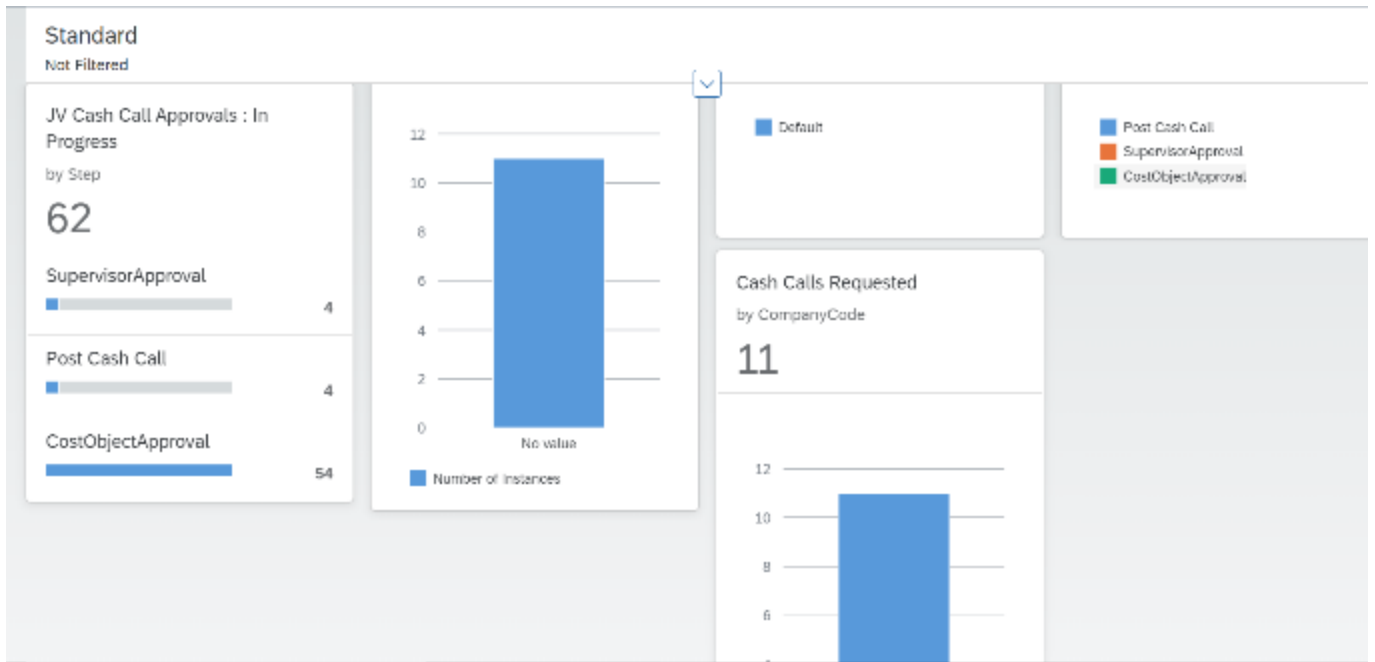
- h. Choose Save.
- i. Assign the local copy to a group and make sure that they're visible to users. For more information, see [Assign Apps to a Group and to a Catalog](#) and [Assign Content to a Role](#).

- 3. Once created, select app that corresponds to "Joint Venture Cash Call 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 Joint Venture Cash Call Approval
- 3. Click Live Process Insights Joint Venture Cash Call Approval
- 4. User will see the process visibility dashboard below.





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