

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Setup & Configuration

Purchase Requisition Approval and Release in SAP ERP using  
SAP Build Process Automation or SAP Workflow Management

# Table of Contents

Table of Contents .....	2
Overview .....	3
Required SAP BTP Services .....	5
Setup and Configuration .....	6
Configure SAP Build Process Automation .....	6
Configure Process Automation Destination .....	6
Configure OAuth2ClientCredentials SAP Build Process Automation Destination (Service Instance) .....	6
Configure SAP Workflow Management .....	7
Configure Workflow Email Destination .....	7
Configure Workflow OAuth Destination .....	8
Configure OAuth2ClientCredentials Workflow Destination .....	8
Configure OAuth2UserTokenExchange Workflow Destination .....	8
Configure Process Visibility Navigation Destination .....	9
Configure OAuth2ClientCredentials Business Rules Destination .....	9
Configure OAuth2ClientCredentials Business Rules Destination (Service Instance) .....	9
Configure OAuth2ClientCredentials Workflow Destination (Service Instance) .....	10
Configure OAuth2ClientCredentials SAP Cloud Integration Service Destination .....	11
Configure SAP ERP Destination .....	11
Configure Cloud Connector .....	12
Configure SAP ERP .....	12
General Prerequisites .....	12
Configuration Scenario 1 - Requisition Block .....	12
Configuration Scenario 2 - Release Strategy .....	13
Import, Configure and deploy Integration Content .....	16
Configure SAP Integration Suite Interface for External Approver Determination .....	16
Purchase Requisition Approval – Line-Item level .....	16
Interface Signature .....	16
Purchase Requisition Approval – Header level .....	17
Interface Signature .....	17
How to start the Process Variant .....	19
Define Start Payload (Initial Context) .....	19
Create Purchase Requisition, Approval and Release from SAP Build Process Automation or SAP Workflow Management ..	20
Developer Testing .....	20
Create Purchase Requisition from ECC and Start Approval, Release in SAP Build Process Automation or SAP Workflow Management.....	21

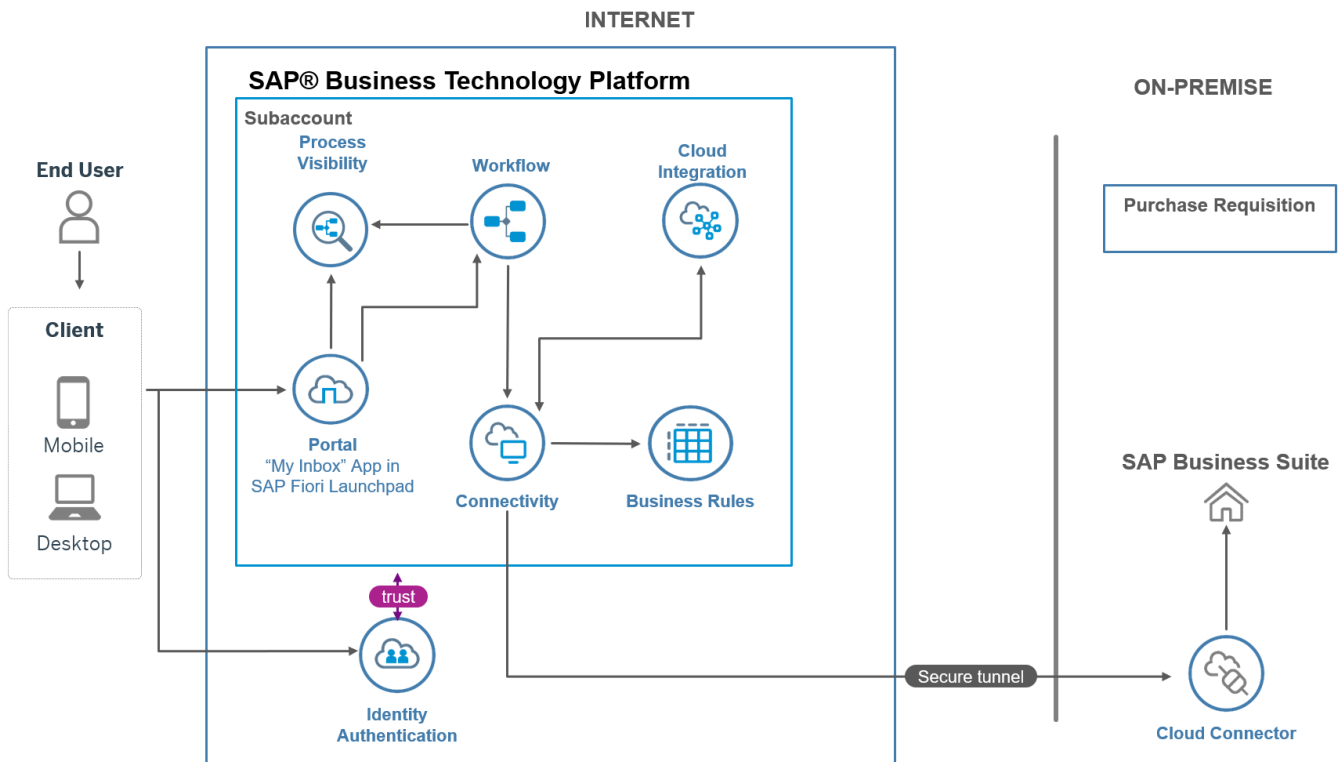
# Overview

This document provides information about configuration steps to consume the Live Process Package Purchase Requisition Approval and Release. The main audience of this document are technical IT Administrators and Developers.

This content package enables SAP ERP customers to automate Purchase Request approval and release process using SAP Build Process Automation or SAP Workflow Management without additional development in SAP ERP. Salient features of this content package are

- Plug and Play with SAP ERP without additional development.
- Process steps are delivered to create net new variants.
- New Process variants can be configured in a low code no code approach.
- Agent determination using Business Rules or SAP ERP or external systems.
- Validation of Line-item attributes using Business Rules.
- Process visibility and key process performance indicators out of the box.
- Insight to actions using process visibility.
- Business Rules to provide flexibility in determining workflow templates and approvers
- Integration content to call SAP ERP BAPIs from SAP Workflow Management.

## SAP ERP – Purchase Requisition Approval & Release



Purchase Requisition Approval and Release Process enable customers to automate approval and release of Line Items in a flexible and transparent way. It provides flexibility in choosing process variants depending on attributes like Request date, Price, Material Group, Document Type, Plant, Purchasing Group and Purchasing

Organization etc. When a requestor creates a Purchase Request with line items in SAP ERP, pre-configured Process Variants are triggered in SAP Workflow Management.

- Line-Item data gets validated using Business Rules before approval.
- Approvers are determined using a Business Rule / external system.
- Approvers are notified via email.
- Approvers have two decision options (Approve, Reject), and based on the decision, the next approval step will be created or requested for a rework or delete the line item and terminate the approval process.
- Line Item released in SAP ERP for Purchase Order creation.

**SAP Workflow Management shall not be used to store or process sensitive personal data. This service can be used if you have a legal ground to process personal data.**

## Required SAP BTP Services

The following SAP Business Technology Platform services are required to consume the content package **Purchase Requisition Approval and Release**:

- SAP Build Process Automation or SAP Workflow management

- SAP Integration Suite

- SAP Cloud Portal service / SAP Launchpad service

- SAP Cloud Connector

- SAP Cloud Identity Services - Identity Authentication (optional)

- SAP Business Application Studio to modify/deploy the SAPUI5 applications.

This content package requires SAP ERP 6.0 as the back-end application.

# Setup and Configuration

The **Purchase Requisition Approval and Release** content package requires SAP Build Process Automation or SAP Workflow Management subscription or a CPEA contract. Based on which service you plan to use, follow the appropriate section to configure either SAP Build Process Automation or SAP Workflow Management

## 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](#)
  - a. Import Package Destination
  - b. Business Rules Destination to support start and step conditions
3. [Optional] [Configure SAP Launchpad Service for SAP Build Process Automation](#)

### Configure Process Automation Destination

A HTTP destination is required in the BTP subaccount where SAP Build Process Automation is subscribed. Create a destination with name "sap\_process\_automation\_service" 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	sap_process_automation_service
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentias
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token

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

### Configure OAuth2ClientCredentias 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:

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

Destination Configuration Blank Template Service Instance

Service Instance: \* sap\_processautomation

Name: \* process\_atuomation\_service\_destination

Description: Call SAP Process Automation APIs using a service route

Additional Properties New Property

Next Cancel

Destination Configuration

Name: \* process\_automation\_service\_destination

Type: HTTP

Description: Call SAP Process Automation APIs using a s...

URL: \* https://sap.com/DUMMY\_URL

Proxy Type: Internet

Authentication: OAuth2ClientCredentials

Use mTLS for token retrieval

Client ID: \* sb-... I9...

Client Secret: \*\*\*\*\*

Token Service URL Type: \* Dedicated Common

Token Service URL: \* https://... ..

Token Service User: .....

Token Service Password: .....

Additional Properties

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

Use default JDK truststore

Save Cancel

## Configure SAP Workflow Management

Follow the [setup and configuration section](#) of SAP Workflow Management.

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\_GET
- WORKFLOW\_INSTANCE\_START

### Configure Workflow Email Destination

Configure bpmworkflowruntime\_mail destination. For more information on configuring destination, see [configure workflow email destination](#).

### Configure Workflow OAuth Destination

Configure bpmworkflowruntimeoauth destination. For more information on configuring destination, see [configure oauth destination](#).

### Configure OAuth2ClientCredentials Workflow Destination

Configure a destination with the following parameters:

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	https://api.workflow.<region-host>.hana.ondemand.com/workflow-service/rest
Client ID	
Client Secret	
Token Service URL	<"uaa":"url"/>/oauth/token
Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: system

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\_GET,WORKFLOW\_INSTANCE\_START,WORKFLOW\_INSTANCE\_GET\_CONTEXT,  
WORKFLOW\_INSTANCE\_GET\_EXECUTION\_LOGS, WORKFLOW\_INSTANCE\_GET\_ERROR\_MESSAGES, MESSAGE\_SEND

Please 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](#) and [how to use Workflow APIs](#).

### Configure OAuth2UserTokenExchange Workflow Destination

Configure a destination with the following parameters:

Name	WorkflowActions
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2UserTokenExchange
URL	https://api.workflow.<region-host>.hana.ondemand.com/workflow-service/rest
Client ID	
Client Secret	
Token Service URL	<"uaa":"url"/>/oauth/token



Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: user
------------------------	---

Please 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](#) and [how to use Workflow APIs](#).

## Configure Process Visibility Navigation Destination

Configure a destination with the following parameters:

Name	ProcessVisibilityNavigation
Type	HTTP
Proxy Type	Internet
Authentication	NoAuthenitciation
URL	https://<portal site host name>/cp.portal/site#pv-showScenarioOverview?
Additional Properties:	Name: bpmprocessvisibility.navigationLink Value: true

## Configure OAuth2ClientCredentials Business Rules Destination

Configure a Business Rules destination with the following parameters:

Name	BusinessRules
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentias
URL	{rule_runtime_url}/rules-service
Client ID	
Client Secret	
Token Service URL	<"uaa":"url">/oauth/token

Please 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](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

## Configure OAuth2ClientCredentials Business Rules Destination (Service

## Instance)

**Ignore this step If there is already a destination using Business Rules service instance created,**

Create new Destination to call Business Rules Service APIs using a Service route from SAP UI5 Component.

- Click New Destination.
- Select **Service Instance** as Destination Configuration.
- Select Service Instance as BusinessRules.
- Enter Name as BusinessRules\_CFLP and click Next button.

The screenshot shows the 'Destination Configuration' dialog box with the 'Service Instance' tab selected. The 'Service Instance' dropdown is set to 'BusinessRules'. The 'Name' field contains 'BusinessRules\_CFLP' and the 'Description' field contains 'Rules destination from SAP UI5 API calls using routes'. At the bottom, there are 'Next' and 'Cancel' buttons.

- Click **Save** button.

The screenshot shows the 'Destination Configuration' dialog box with the 'Additional Properties' tab selected. The 'Name' field is 'BusinessRules\_CFLP', 'Type' is 'HTTP', 'Description' is 'Rules destination from SAP UI5 API calls using ...', 'URL' is 'https://sap.com/DUMMY\_URL', 'Proxy Type' is 'Internet', and 'Authentication' is 'OAuth2ClientCredentials'. The 'Client ID' and 'Client Secret' fields are masked. The 'Token Service URL' field is also masked. The 'Token Service User' and 'Token Service Password' fields are empty. The 'Additional Properties' section contains a table of properties and their values, with a 'Use default JDK truststore' checkbox checked.

Property	Value
endpoints	{"rule_repository_url":...
html5-apps-r...	{"app_host_id":"cbd0c...
saasregistrye...	true
sap.cloud.se...	com.sap.bpm.rule

## Configure OAuth2ClientCredentials Workflow Destination (Service Instance)

**Ignore this step If there is already a destination using Workflow service instance created,**

Create new Destination to call Workflow Service APIs using a Service route from SAP UI5 Component.

- Click **New Destination**.
- Select **Service Instance** as Destination Configuration.
- Select Service Instance as Workflow.
- Enter Name as Workflow\_CFLP and click Next button.
- Click **Save** button.

## Configure OAuth2ClientCredentials SAP Cloud Integration Service Destination

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed.

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	
Token Service URL	
Token Service User	Same as Client ID
Token Service Password	Same as Client Secret

For more information refer how to [create a HTTP destination](#) and Authentication (client credentials).The URL should be the runtime url. Please refer how to get your Integration tenant [runtime url](#). Please refer help documentation [how to get URL, Client ID, Client Secret and Token Service URL](#).

## Configure SAP ERP Destination

An RFC destination is required to the SAP Integration Suite.

Configure destination, Type as RFC, Proxy Type as On Premise. Please refer how to [create a RFC destination](#)

Add Additioanl Properties jco.client.ashost, jco.client.client, jco.client.sysnr

## Destination Configuration

Name: *	<input type="text"/>	Additional Properties	
Type:	<input type="text" value="RFC"/>	jco.client.ash...	<input type="text"/>
Description:	<input type="text"/>	jco.client.client	<input type="text"/>
Proxy Type:	<input type="text" value="OnPremise"/>	jco.client.sysnr	<input type="text"/>
User:	<input type="text"/>		
Password:	<input type="password" value="*****"/>		
Alias User:	<input type="text"/>		
Repository User:	<input type="text"/>		
Repository Password:	<input type="password" value="*****"/>		
Location ID:	<input type="text"/>		

## Configure Cloud Connector

Configure your SAP Integration Suite account and ECC system in Cloud Connector to enable secure tunnel for RFC calls. Please refer the help documentation to [configure Cloud Connector](#).

## Configure SAP ERP

### General Prerequisites

Purchasing is configured in SAP ERP and relevant purchase requisitions can be maintained accordingly.

Necessary authorizations for the technical user to call the following function modules in SAP ECC in the relevant in purchasing areas:

- BAPI\_REQUISITION\_CREATE
- BAPI\_REQUISITION\_CHANGE
- BAPI\_REQUISITION\_RELEASE
- BAPI\_MATERIAL\_GETLIST
- BAPI\_MATERIAL\_GET\_DETAIL
- SLS\_LORD\_GET\_VALUES\_WERKS
- BAPI\_COSTCENTER\_GETDETAIL1

For Configuration Scenario 2 the enhancement of transaction ME51(N) is required, as described in chapter "Create Purchase Requisition from SAP ERP and Start Approval, Release in SAP Workflow Management".

### Configuration Scenario 1 - Requisition Block

#### **Scenario description**

Purchase requisitions, that are to be created in the SAP Workflow Management and replicated into SAP ERP via BAPI are controlled from SAP Workflow Management until the release has taken place.

Before release, the BAPI replicates new “**purchases requisitions for approval**” together with Block ID = 3 (Blocked for Central Processing).

The Block ID will be removed as soon as the requisition is released in SAP Workflow Management.

### **Scenario configuration**

Release Strategy must not be maintained for the relevant purchase requisitions, as the SAP Workflow Service will only remove the Block ID after the release has taken place.

Configuration Scenario 2 - Release Strategy

### **Scenario description**

In case the purchase requisitions are to be created within SAP ERP and not via BAPI using the Requisition Block described above, then a Release Strategy must be customized to identify the “**purchases requisitions for approval**”, that are to be released in Workflow Management.

### **Scenario configuration**

As all details of the release process are controlled within the SAP Workflow Management, in SAP ERP the following fix values for Release Strategy and Release Code must be maintained for the relevant purchase requisitions:

- Release Strategy named “**EX**” (External Release Strategy)
- Release Code named “**EX**” (External Approval)

The Release Strategy must be defined within the Standard Release Procedure for Purchases Requisitions, that is available within transaction SPRO, SAP reference IMG, under the following path:

SAP Customizing Implementation Guide > Materials Management > Purchasing > Purchase Requisition > Release Procedure

Both standard options can be used “Procedure without Classification” and “Procedure with Classification” as well.

It’s not the scope of this document to explain all details regarding those configuration options, but in the following paragraph a simple example is introduced.

Important notes for maintenance of Release Strategy “EX”:

- Use Release indicator = X (blocked) for creation of new purchase requisitions
- Use a single release step with Release Code “EX” that leads directly into Release indicator = 2 (RFQ/purchase order)

Additional notes:

- It’s recommended that the fields in purchase requisitions are not editable in ERP, while. release indicator is X (blocked). The detailed customizing is not in scope of this document.
- It is also recommended that the authority to approve the respective purchase requisitions in ERP is only given in an emergency. Means the Approval for Release Code EX-EX must be reserved for Workflow Management Approval.

### **Scenario example**

In this simple example we use a “Procedure without Classification” and restrict/define the “purchase

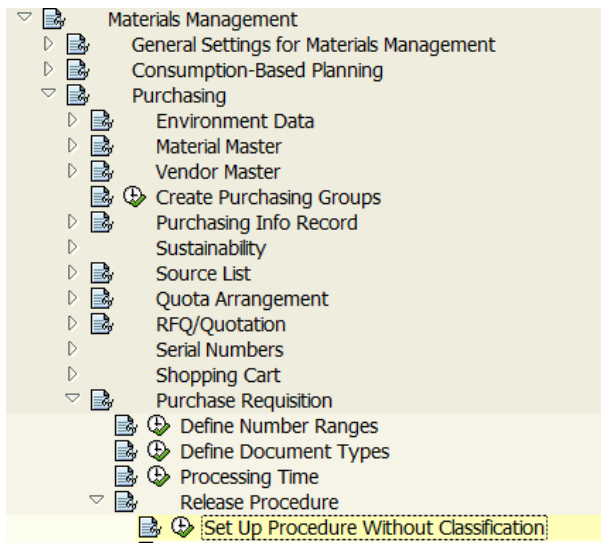
requisitions for approval" only with one value:

- Plant of purchase requisition = 0001

That means all purchase requisitions for plant 0001 are to be released via SAP Workflow Management.

Starting point is transaction SPRO, SAP reference IMG. For this easy example it is prerequisite that no procedure with classification is maintained.

**Step 1 – Choose “Set Up Procedure Without Classification” in the “SAP Customizing Implementation Guide”:**



**Step 2 – Choose “Release Codes” and maintain:**

Release code	Description
EX	External Approval

**Step 3 – Choose “Release indicator” and check the values, especially “2” and “X”:**

Release ID	Description
1	Request for quotation
2	RFQ/purchase order
3	RFQ/PO no change of date
4	RFQ/PO no changes
A	Fixed RFQ
B	Fixed RFQ/purchase order
R	Released
X	Blocked

**Step 3 – Choose “Assign Release Indicators” and maintain:**

Rel.Str.	C1	C2	C3	C4	C5	C6	C7	C8	Rel. ID	Description
EX									X	Blocked
EX	X								2	RFQ/purchase order

**Step 3 – Choose “Release Points: Prerequisites” and maintain:**

Rel.Strat.	Release code	Description	C1	C2	C3	C4	C5	C6	C7	C8
EX	EX	External Approval	X							

**Step 3 – Choose “Determination of Release Strategy” and maintain:**

AcctAssCat	Mat. Grp	Plnt	Value of purch. req.	Crcy	Release Strategy
		0001	0,00	EUR	EX

## Import, Configure and deploy Integration Content

This package utilizes Cloud Integration capability within SAP Integration Suite to provide integration between SAP ERP (or SAP S/4HANA) and SAP Build Process Automation or SAP Workflow Management. Further details can be found in dedicated integration guide of the integration package “**Purchase Requisition Approval and Release**”.

## Configure SAP Integration Suite Interface for External Approver Determination

If an approval step requires task owner determination logic using SAP ERP or SuccessFactors or 3<sup>rd</sup> party systems, an interface using SAP Integration Suite (CPI) needs to be implemented. Approvers can be determined using Purchase Requisition Header level or Line-Item level. Depending on the use case, implement this interface as given below. It is possible to configure approval at header level or line-item level using a business rule PurchaseRequisitionApprovalStrategy provided with this content package.

### Purchase Requisition Approval – Line-Item level

Each line item in a purchase requisition requires separate approval.

### Interface Signature

<CPI destination Url>/http/DetermineApproval

The approval workflow will be using a destination CPI and http/DetermineApproval as relative path.

### Input: Purchase Requisition Line Item (Structure data type)

ATTRIBUTE	TYPE	DESCRIPTION
Requisition Id	String	Purchase Requisition Number
Document Type	String	Purchase Requisition Document Type
Net Amount	Number	Price of Line item
Purchasing Organisation	String	Purchasing organisation
Material Group	String	Material Group
Purchasing Group	String	Purchasing Group
Plant	String	Plant
Step Name	String	Process Step Name
Currency	String	Currency of Line Item
AccountAssignment	String	Account Assignment

Request body for CPI interface must be in JSON format (example below):

```
{
  "PurchaseRequisitionData ": {
    "RequisitionId": "",
    "ItemNumber": "",
    "NetAmount": "",
    "DocumentType": "",
    "MaterialGroup": "",
    "PurchasingGroup": "",
    "Plant": "",
    "PurchasingOrg": "",
    "Currency": "",
```



```

    "Quantity": "",
    "StepName": "",
    "AccountAssignment":""
  }
}

```

**Output:** LineItemApprover (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Approver Name	String	Approver Names, Comma Separated Names. Approver Names are assigned to the approval task, depending on your identity authentication settings please provide Business Technology Platform Id of business users.
Approver Email	String	Email Ids of Approvers, comma separated.
Approver Group	String	Approver Group ID available in Business Technology Platform
Group Name	String	Approver Group Name
Task Duration	Number	Number of hours planned to complete the task
Duration From	String	Task duration calculated from beginning of a Process Step or immediately before the actual Task.
Auto Approval	Boolean	Approver required or not. (true/false)

It is possible to have multiple approval tasks for a Step. For eg: Cost center approval can have multiple approval tasks and the respective approvers can be provided as a JSON array. Response body for CPI interface must be in JSON format (example below):

```

{
  "Result": [
    {
      "LineItemApprover": {
        "ApproverName": "",
        "ApproverEmail": "",
        "ApproverGroup": "",
        "GroupName": "",
        "TaskDuration": 1,
        "DurationFrom": "Step",
        "AutoApproval": false
      }
    }
  ]
}

```

Purchase Requisition Approval – Header level

All line items in a purchase requisition require only one approval.

Interface Signature

<CPI destination Url>/http/DetermineHeaderApproval

The approval workflow will be using destination CPI and http/DetermineHeaderApproval as relative path.

**Input:** Purchase Requisition Header (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Requisition Id	String	Purchase Requisition Number
Document Type	String	Purchase Requisition Document Type
NetAmount	Number	Total value of all line items
Purchase Value	Number	Purchase Requisition Value
Purchasing Organization	String	Purchasing organization
Step Name	String	Process Step Name

Request body for CPI interface must be in JSON format (example below):

```
{
  "PurchaseRequisitionData ": {
    "RequisitionId": "",
    "NetAmount": "",
    "DocumentType": "",
    "PurchasingOrganisation": "",
    "StepName": ""
  }
}
```

**Output: Approver (Structure)**

ATTRIBUTE	TYPE	DESCRIPTION
Approver Name	String	Approver Names, Comma Separated Names. Approver Names are assigned to the approval task, depending on your identity authentication settings please provide Business Technology Platform Id of business users.
Approver Email	String	Email Ids of Approvers, comma separated.
Approver Group	String	Approver Group ID available in Business Technology Platform.
Group Name	String	Approver Group Name
Task Duration	Number	Number of hours planned to complete the task
Duration From	String	Task duration calculated from beginning of a Process Step or immediately before the actual Task.
Auto Approval	Boolean	Approver required or not. (true/false)

It is possible to have multiple approval task for a Step. For eg: purchasing approval can have multiple approval tasks and the respective approvers can be provided as a JSON array. Response body for CPI interface must be in JSON format (example below):

```
{
  "Result": [
    {
      "LineItemApprover": {
        "ApproverName": "",
        "ApproverEmail": "",
        "ApproverGroup": "",
        "GroupName": "",
        "TaskDuration": 1,
        "DurationFrom": "Step",
        "AutoApproval": false
      }
    }
  ]
}
```

# How to start the Process Variant

Activating a Process Variant creates a new Workflow Definition, which can then be operated like any other workflow. To start the workflow for a given variant, three steps are necessary:

- Determine Workflow Definition Id
- Define Start Payload (Initial Context)
- Start the workflow using custom UI5 application or call Workflow APIs from remote applications including SAP ERP.

## Define Start Payload (Initial Context)

The predefined SAP UI5 ui and Business Rules in this package expect a specific workflow context. This context is given to the workflow instance upon starting. Following is the format defined for the Purchase Requisition Approval and Release Process:

```
{
  "definitionId": "InitializePurchaseRequisitionApprovalProcess",
  "context": {
    "PurchaseRequest": {
      "DocumentId": "",
      "Requestor": {
        "Name": "",
        "Uniqueld": "",
        "Email": ""
      }
    }
  }
}
```

FIELD	COMMENT
definitionId	Process variant ID. SAP Workflow Management, <b>Monitor Workflow -Workflow Definitions</b> will enable you to get the deployed Workflow Definition.
context.PurchaseRequest.DocumentId	Purchase Requisition Document Number
context. PurchaseRequest.Requestor.Uniqueld	User Id of the requester in Identity Management. Requestor might get Rework tasks in their inbox.
context. PurchaseRequest.Requestor.Name	Name of the requester.
context. PurchaseRequest.Requestor.email	Email id of the requester.

## Create Purchase Requisition, Approval and Release from SAP Build Process Automation or SAP Workflow Management

Please refer to the documentation for [Creating a Start UI](#) with UI5

See the [API Reference](#) for “Workflow Instances” – “Start a new Instance” by issuing a REST POST call to the `/v1/workflow-instances` endpoint.

Please refer the [Sample SAP UI5 application](#) to create a new purchase Requisition and start approval process.

Table 1. Start Payload fields

FIELD	COMMENT
definitionId	Process variant ID. SAP Workflow Management, <b>Monitor Workflow -Workflow Definitions</b> will enable you to get the deployed Workflow Definition.
context.PurchaseRequest.DocumentId	Purchase Requisition Document Number
context. PurchaseRequest.Requestor.Uniqueld	User Id of the requester in Identity Management. Requestor might get Rework tasks in their inbox.
context. PurchaseRequest.Requestor.Name	Name of the requester.
context. PurchaseRequest.Requestor.email	Email id of the requester.

## Developer Testing

If there is no Purchase Request Creation application available, test the approval Process using Monitor Workflow – Workflow Definitions.

1. Create a Purchase Requisition in SAP ERP
2. Copy the Document ID
3. Go to SAP Build Process Automation or SAP Workflow Management, Monitor Workflow – Workflow Definitions.

Please refer how to test Workflow Definitions in [help documentation](#).

4. Create a new Workflow Instance using the below Payload.

```
{
  "PurchaseRequest": {
    "DocumentId": "",
    "Requestor": {
      "Name": "",
      "Uniqueld": "",
      "Email": ""
    }
  }
}
```

## Create Purchase Requisition from ECC and Start Approval, Release in SAP Build Process Automation or SAP Workflow Management

For Configuration Scenario 2 (refer details in chapter “Configure SAP ECC”), transaction ME51(N) must be enhanced in ECC:

The classic BAdI **MD\_PURREQ\_POST** - method POST\_AFTER\_SAVE – can be used to implement the development to start the approval in SAP BTP for purchase requisitions with release strategy “EX”!

Important notes for development:

The SAP Workflow Service must be started via API. See the [API Reference](#) for “Workflow Instances” – “Start a new Instance” by issuing a REST POST call to the /v1/workflow-instances endpoint.

More help regarding “Access Workflow APIs” can be found here:

<https://help.sap.com/viewer/e157c391253b4ecd93647bf232d18a83/Cloud/en-US/c2bd37c63dda47449e24b8830ba312f1.html>

The necessary data for the API is described in the following json-file and the blue marked texts must be replaced with the current requisition data and user’s master data:

```
{
  "definitionId": "InitializePurchaseRequisitionApprovalProcess",
  "context": {
    "PurchaseRequest": {
      "DocumentId": "<Purchase Requisition Document Number>",
      "Requestor": {
        "Name": "<Name of the requester>",
        "UniqueId": "<User Id of the requester>",
        "Email": "<Email id of the requestor>"
      }
    }
  }
}
```

To separate the external call from the posting routines within ECC, the ABAP-development should be encapsulated in a transactional RFC call:

```
CALL FUNCTION 'your module for API-call' IN BACKGROUND TASK DESTINATION 'destination'.
```

The new “destination” of Type 3 (ABAP destination) must allow its technical user to call the API above within you new function module “**your module for API-call**”.