

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Ariba Purchase Requisitions Approval using SAP Build Process Automation or SAP Workflow Management

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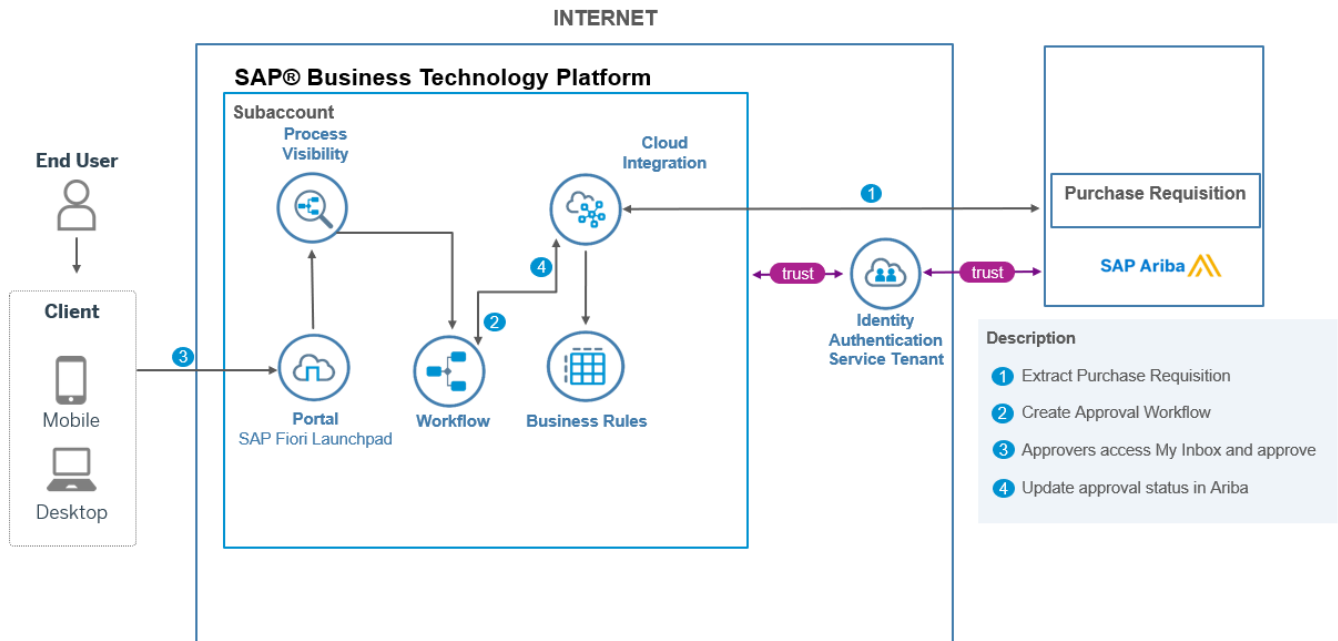
Overview

This document provides information about setting up the SAP Business Technology Platform account to consume the content package **Ariba Purchase Requisitions Approval**. The main audience of this document are technical IT/system administrators.

The **Ariba Purchase Requisitions Approval** content package enables SAP Ariba customers to automate the process of approvals of purchase requisitions using SAP Build Process Automation or SAP Workflow Management without additional development in SAP Ariba. Salient features of this content package are:

- Plug and Play with SAP Ariba without additional development.
- Pre-configured process steps for approval
- Automatic email notification to parties involved
- Agent/approver determination using Business Rules or external service
- Pre-built integration content to process Purchase Requisitions
- Out-of-the-box visibility into key process performance indicators

Ariba Purchase Requisition Approval



Required SAP Business Technology Platform Services

The following SAP BTP services are required to consume the content package Ariba Purchase Requisition Approvals.

- SAP Build Process Automation or SAP Workflow Management.
- SAP Integration Suite
- SAP Cloud Portal service or SAP Launchpad service
- SAP Cloud Identity Services - Identity Authentication (optional).
- SAP Business Application Studio

Setup and Configuration

Ariba Purchase Requisition Approvals 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 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:

<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
- WORKFLOW_INSTANCE_CANCEL

Configure Workflow Email Destination

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

Configure OAuth2ClientCredentials Workflow Destination

Use an existing or create a new Workflow service instance with at least the following authorities (scopes):

WORKFLOW_INSTANCE_START
WORKFLOW_INSTANCE_GET

Please refer to the documentation on how to [Enable Technical Authentication](#) with specific authorities.

Configure a destination with the following parameters:

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentias
URL	https://api.workflow.<region-host>.hana.ondemand.com/workflow-service/rest
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 use Workflow APIs](#).

Configure OAuth2ClientCredentials Business Rules Destination

Configure a Business Rules destination with name "BUSINESS_RULES" and with the following parameters:

Name: *	<input type="text" value="BUSINESS_RULES"/>
Type:	<input type="text" value="HTTP"/>
Description:	<input type="text"/>
URL: *	<input type="text" value="https://bpmruleruntime"/>
Proxy Type:	<input type="text" value="Internet"/>
Authentication:	<input type="text" value="OAuth2ClientCredentials"/>
Client ID: *	<input type="text"/>
Client Secret:	<input type="text" value="*****"/>
Token Service URL: *	<input type="text" value="https://\ .authentication...."/>
Token Service User:	<input type="text"/>
Token Service Password:	<input type="text"/>

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 a Destination to SAP Ariba system

Create a destination to post the purchase requisition back to SAP Ariba system via the Document Approval API. Configure a destination with the name as “**AribaAPI**”, with Type as HTTP, Proxy Type as Internet, URL as hostname of your SAP Ariba tenant, and authentication as OAuth2ClientCredetails. Please refer how to [create an HTTP destination](#)

Enter Token Service URL for eg: `https://{{runtime_url}}/v2/oauth/token?grant_type=openapi_2lo`

To know more about Document Approval API, refer official help document [here](#)

Destination Configuration

Name: *	AribaAPI	Additional Properties
Type:	HTTP	
Description:	Document Approval API	<input checked="" type="checkbox"/> Use default JDK truststore
URL: *	https://[redacted]/api	
Proxy Type:	Internet	
Authentication:	OAuth2ClientCredentials	
Client ID: *	[redacted]	
Client Secret:	*****	
Token Service URL: *	https://[redacted]/token?grant_typ...	
Token Service User:		
Token Service Password:		

Note: Ariba related required configuration details are mentioned in the “Appendix” section.

Configure Cloud Integration Destination

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

Destination with Basic Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication

URL	<runtime.url>
Username	<user>
Password	<password>

Destination with OAuth2ClientCredentials Authentication

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

Additional Properties to Destination

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

WebIDEEEnabled	true
WebIDESystem	CPI
WebIDEUsage	odata_gen

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 “**Ariba Purchase Requisitions Approval**”.

Configure SAP Central Fiori Launchpad Site for SAP Workflow Management

If you plan to use SAP Launchpad service, then configure [SAP Central Fiori Launchpad Site with Workflow Applications](#) using help [documentation](#).

Appendix

SAP Ariba Configurations

Realm Configuration

To configure the realm for external document approval, refer to the official help document here

<https://help.sap.com/viewer/f9cd5fe02da34e5a9c0ddd8161ee04d1/cloud/en-US/0b4a9e57391d458484e9095f00a51083.html>

User and Groups Configuration

Configure a technical user, as a standard user

A technical user (i.e.: “Workflow Approver”) is needed for the Purchase Requisition’s approve/reject operations on SAP Ariba. When creating the technical user, it is recommended to use the Defined By ‘**ManuallyMaintained**’ value to avoid the deactivation of the user from the standard user synchronization if full load mode is used. Refer to the link to [How to add or modify users](#).

Note: This user would be configured in the integration flow and used to post the document back to SAP Ariba.

Configure a Custom Group

Configure a custom group (i.e.: “External Approval”) and add the technical user defined in above step to this group. Note that the Custom groups created in Ariba Administrator have this adapter source ‘**AribaManaged**’. Refer to the link to [How to manage groups in Ariba Administrator](#)

Approval flow configuration

Configure the Purchase Requisition approval flow with only one rule, containing the custom group created in above step for the technical approver. To know more on approval process management in SAP Ariba, refer [here](#)

Ariba APIs

APIs come as a standard from the developer portal. To get started with Ariba APIs and use them to build API based application, refer to the link [here](#). Following blog post gives a comprehensive introduction with many valuable resources regarding this topic:

[SAP Ariba developer portal – How to create applications and consume the SAP Ariba APIs](#)

Following APIs are being referenced in this Ariba Purchase Requisition Approvals content package. To know more, refer the links below:

- The operational reporting API (for data ingestion) - <https://help.sap.com/viewer/42cb9e6fb65a4fa7b03f5e0ec7d406f9/cloud/en-US>
- The Document Approval API (For document release) - <https://help.sap.com/viewer/f9cd5fe02da34e5a9c0ddd8161ee04d1/cloud/en-US>

Operational Reporting API based Custom View

To get only relevant data, a custom view template with only selected attributes should be created. Following guides describe how to create a customer view template. Regarding the needed attributes check the attached JSON structure

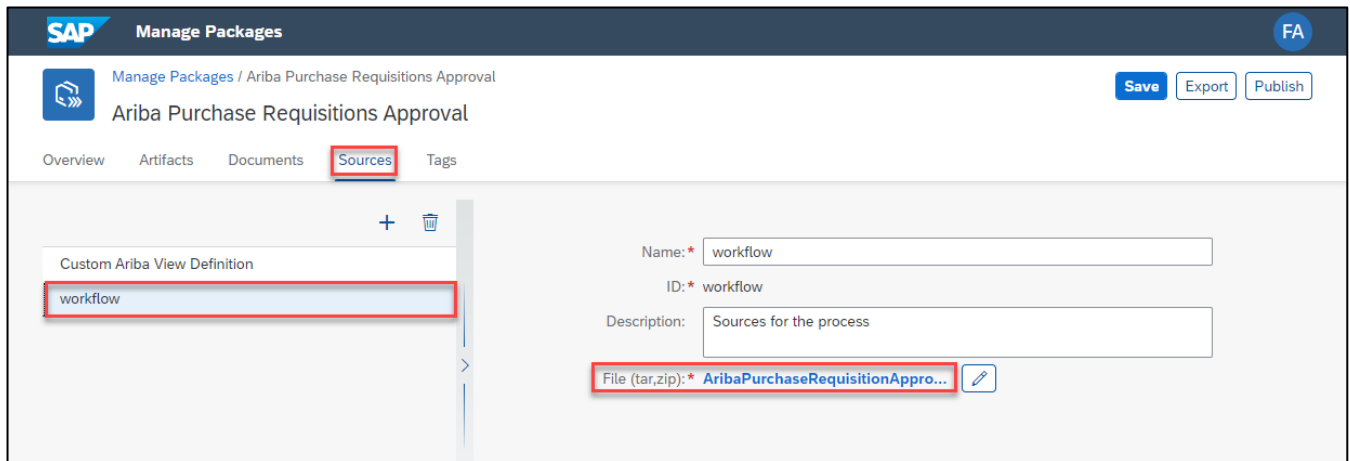
under the “Sources” of the content package.

- [Sample request to create a custom view template - SAP Help Portal](#)

Optional: Making Custom changes in SAP Workflow Management

Prerequisite: an account with access to SAP Business Application Studio as well as space developer permissions in BTP.

The source code for both the process and the SAPUI5-based user interfaces are available as part of the content package. With this, custom modifications can be implemented to adapt the content for specific needs.



- in **Manage Package** app, select **Sources** tab
- select the archive you want to download in the list on the left side
- click on the blue filename behind **File (tar, zip)** to download the attached source archive
- Import the archive into SAP Business Application Studio
- make any necessary modifications
- Build and deploy the MTA archive, using the space developer credentials

Please refer to the documentation for [SAP Business Application Studio](#), the documentation for [Modeling a Workflow](#) and the documentation for [Creating User Interfaces](#) for details.

Optional: Making Custom changes in SAP Build Process Automation

Prerequisite: an account with access to SAP Business Application Studio as well as space developer permissions in BTP.

The source code for both the process and the SAPUI5-based user interfaces are available as part of the content package. With this, custom modifications can be implemented to adapt the content for specific needs.

Overview

Ariba Purchase Requisitions Approval



Last updated on: Sep 7, 2022, 12:24:28 PM

Created on: Sep 7, 2022, 12:24:28 PM

Description:

By: krishnendu.bhowmick@itcinfotech.com





By: krishnendu.bhowmick@itcinfotech.com

Automate the approval of Purchase Requisitions from SAP Ariba, at Header level by considering all line items using SAP Workflow Management or SAP Process Automation.

Artifacts (7)

Sources (2)

Documents (4)

Name	Description	
 Custom Ariba View Definition	JSON definition for the custom view in the Ariba system.	
 workflow	Sources for the process	

- in **Application Lobby**, search the package name and select **Sources** tab
- select the archive you want to download in the list on the left side
- click on the blue filename behind **File (tar, zip)** to download the attached source archive
- Import the archive into SAP Business Application Studio
- make any necessary modifications
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