

# Integration Guide

## SAP Build Process Automation Integration with SAP S/4HANA for Purchase Order Change

# Table of Contents

Table of Contents .....	2
Overview .....	3
Required SAP Business Technology Platform Services .....	4
Setup and Configuration.....	5
Import, configure and deploy cloud integration content.....	5
Import pre-packaged Integration content in SAP Integration Suite .....	5
HTTP Adapter Configuration.....	6

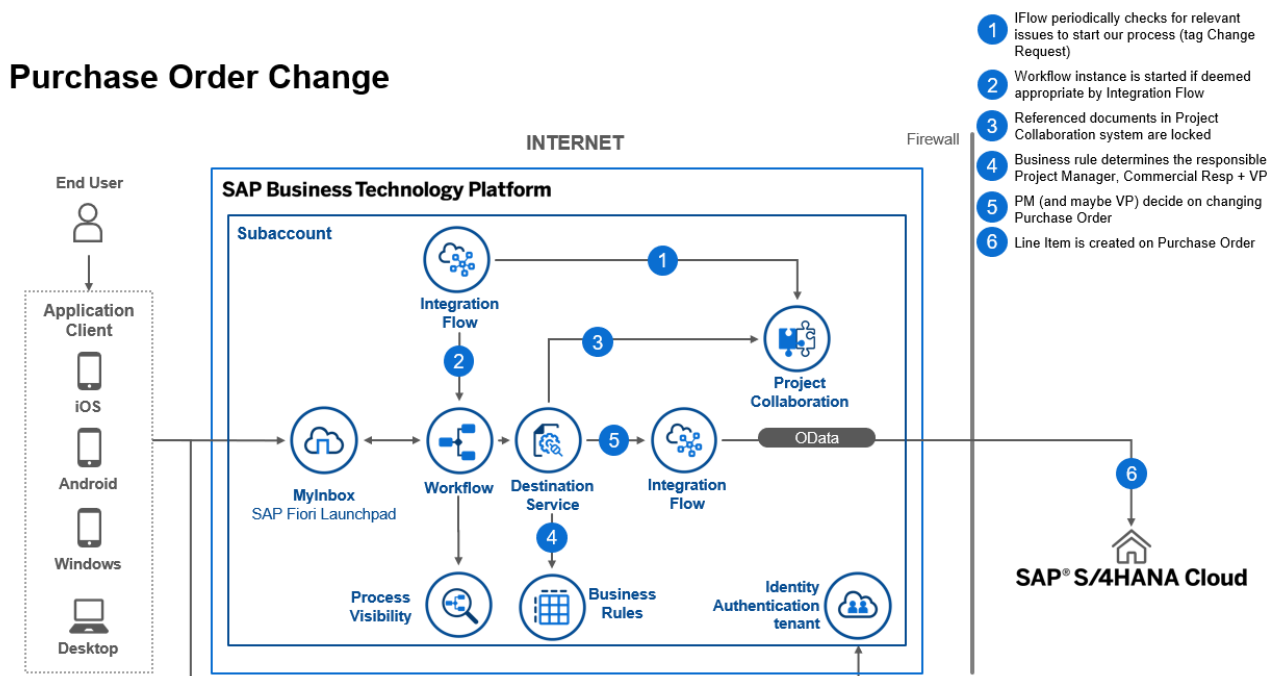
# Overview

This document provides information about configuration steps to setup the integration content to consume the workflow content package **Purchase Order Change**. The primary audience of this document is integration administrators and developers.

This integration package enables an automatic query of Issues with a change request tag in SAP S/4HANA Cloud for Projects, Project Collaboration based on a timer and start workflow instance(s). This package also enables SAP Build Process Automation or SAP Workflow Management to update Document Status in SAP S/4HANA Cloud for Projects, Project Collaboration.

Salient features of this content package are:

- Starts workflow instance(s) when there are issues closed in SAP S/4HANA Cloud for Projects, Project Collaboration
- Update document status in SAP S/4HANA Cloud for Projects, Project Collaboration



# Required SAP Business Technology Platform Services

The workflow content packages **Purchase Order Change** is intended to be used for SAP S/4HANA (cloud) and requires the following services in SAP BTP:

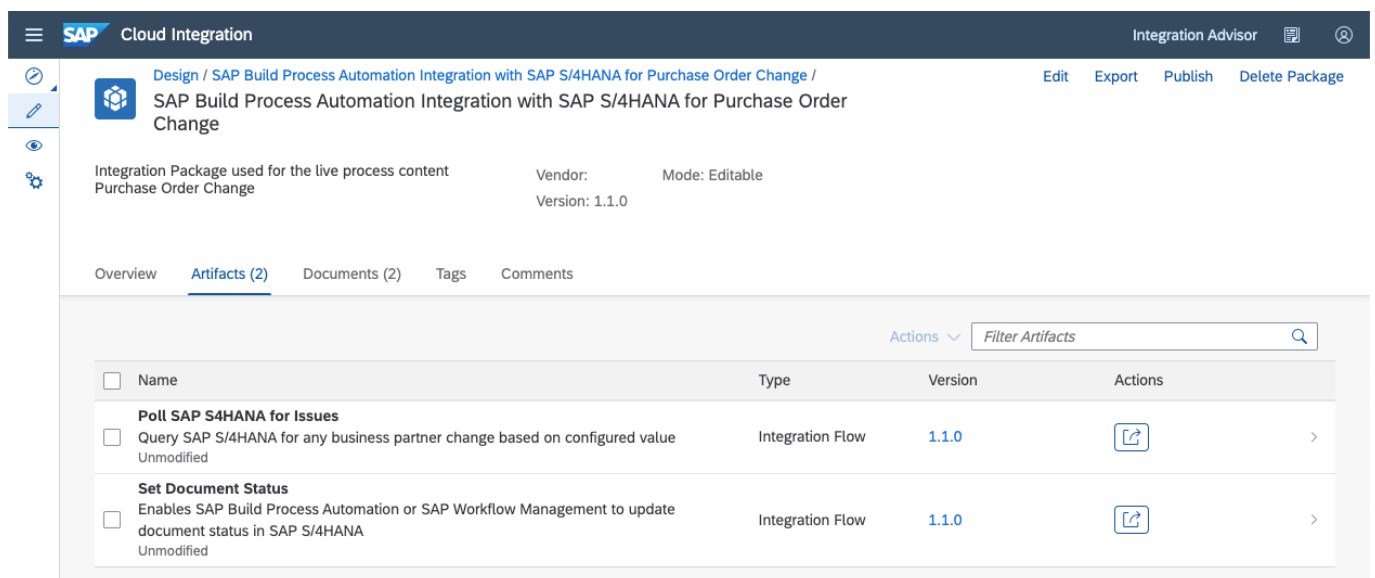
- SAP Build Process Automation or SAP Workflow Management to orchestrate the process.
- SAP S/4HANA Cloud, SAP S/4HANA Cloud for Projects, Project Collaboration
- Cloud integration capability within SAP Integration Suite.
- SAP Cloud Portal service or SAP Launchpad service to access the apps that are involved in the process.
- SAP Cloud Identity Services - Identity Authentication (optional).
- SAP Business Application Studio to modify/deploy the SAPUI5 applications.

# Setup and Configuration

This section will explain how to setup the integration content that is required for the workflow content packages **Purchase Order Change**

## Import, configure and deploy cloud integration content

This workflow content requires the cloud integration to process the **Purchase Order** in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Purchase Order Change** is available in SAP API Business hub to integrate SAP Build Process Automation or SAP Workflow Management with SAP S/4HANA. Integration models use OData APIs to integrate with SAP S/4HANA. The following integration models are available in this package.



Import the integration package to your SAP Cloud Integration tenant. To be able to import and deploy integration flows, you need the role AuthGroup.IntegrationDeveloper (in Neo environment) or PI\_Integration\_Developer (in cloud foundry environment) assigned in your tenant.

### 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 Purchase Order Change”.

- Click on the package **SAP Build Process Automation Integration with SAP S/4HANA for Purchase Order Change**.
- 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.
  - **Workflow** – (OAuth2 Client Credentials) To start the approval workflows in SAP Build Process Automation or SAP Workflow Management ([help documentation to determine the service configuration parameters](#)). Make sure that the service instance was created with the following scopes - WORKFLOW\_INSTANCE\_GET, WORKFLOW\_INSTANCE\_START, WORKFLOW\_INSTANCE\_CANCEL.
  - **COPIN\_USER** – (User Credentials) To communicate with SAP S/4HANA Cloud for Projects, project collaboration. Password's format will be <user password>\*<Client ID>\*<Client secret> where "\*" is the separator.

The screenshot shows a dialog box titled "Edit User Credentials". It contains the following fields and controls:

- Name:** \* COPIN\_USER
- Description:** [Empty text box]
- Type:** \* User Credentials (with a dropdown arrow)
- User:** \* [Empty text box]
- Password:** [Masked text box with dots]
- Repeat Password:** [Empty text box]

At the bottom right of the dialog, there are two buttons: "Deploy" and "Cancel".

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 HTTP adapter configuration.

### HTTP Adapter Configuration

- Open the integration model *Poll S4HANA for Purchase Order Change*
- Click **Configure** button, choose the Timer and configure how frequently should the SAP S/4HANA be polled for issues.

Configure "Poll SAP S4HANA for Issues"

Timer Receiver More

Timer: Timer to query S4HANA [StartEvent\_4]

Run Once  Schedule on Day  Schedule to Recur

Schedule to Recur: Daily

On Time 01:09 PM  Every 10 min Between 06:00 and 19:00

Time Zone: ( UTC 0:00 ) Greenwich Mean Time(Etc/GMT)

- Click **Configure** button, choose the appropriate receivers (SAP S/4HANA Authentication, Workflow, SAP S/4HANA) and set their respective API endpoint and credential names.

Configure "Poll SAP S4HANA for Issues"

Timer **Receiver** More

Receiver: SAP\_S4HANA\_Authentication

Adapter Type: HTTP

**Connection**

Address: {{Token URL}}/oauth/token

Token URL: https://<Token\_URL>

Configure "Poll SAP S4HANA for Issues"

Timer **Receiver** More

Receiver: SAP\_S4HANA

Adapter Type: HTTP

**Connection**

Address: {{COPIN\_URL}}/IssueService/v1/Issues

COPIN\_URL: https://<COPIN\_URL>

Proxy Type: Internet

Authentication: None

## Configure "Poll SAP S4HANA for Issues"

Timer   **Receiver**   More

Receiver: SAP\_Workflow

Adapter Type: HTTP

**Connection**

Address: {{Workflow API Endpoint}}/rest/v1/workflow-instances

Workflow API Endpoint: https://api.endpoint/workflow-path/path

Credential Name: Workflow

- Go to the **More** tab and configure additional parameters:

**COPIN\_USER** – COPIN requires an additional authentication where token will be manually retrieved in the integration flow.

## Configure "Poll SAP S4HANA for Issues"

Timer   Receiver   **More**

Type: All Parameters

COPIN User: COPIN\_USER

Last changed in minutes: 30

- Save and Deploy the integration model.
- Similarly, configure the **Set Document Status** integration model and deploy them.