

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release

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# Overview

This document provides information about configuration steps to setup the integration content to consume the live process content packages **SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release**. The primary audience of this document is integration administrators and developers.

This integration package enables the workflow module to retrieve project details and release project.

Salient features of this content package are:

- Start a workflow instance on SAP Build Process Automation or SAP Workflow Management
- Retrieve SAP Project Systems details
- Retrieve SAP PPM details
- Release Project

# Required SAP Business Technology Platform Services

The live process content packages **SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release** is intended to be used for SAP S/4HANA on-premise and requires the following services in SAP BTP:

- SAP Build Process Automation or SAP Workflow Management.
- Cloud integration capabilities within SAP Integration Suite.
- SAP Connectivity service (cloud connector) to establish access to SAP S/4HANA on-premise.

# Setup and Configuration

This section will explain how to setup the integration content that is required for the live process content packages **SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release**.

## Configure SAP S/4HANA Destination

Configure a RFC destination to connect with SAP S/4HANA on-premise, refer to documentation [here](#) for the same.

|                       |                             |
|-----------------------|-----------------------------|
| Name                  | S4HANA                      |
| Type                  | RFC                         |
| Proxy Type            | On premise                  |
| User                  | <COMMUNICATION_USER>        |
| Password              | <COMMUNICATION_PASSWORD>    |
| Authentication        | BasicAuthentication         |
| URL                   | <URL of SAP S/4HANA System> |
| Additional Properties | sap-client: <client number> |

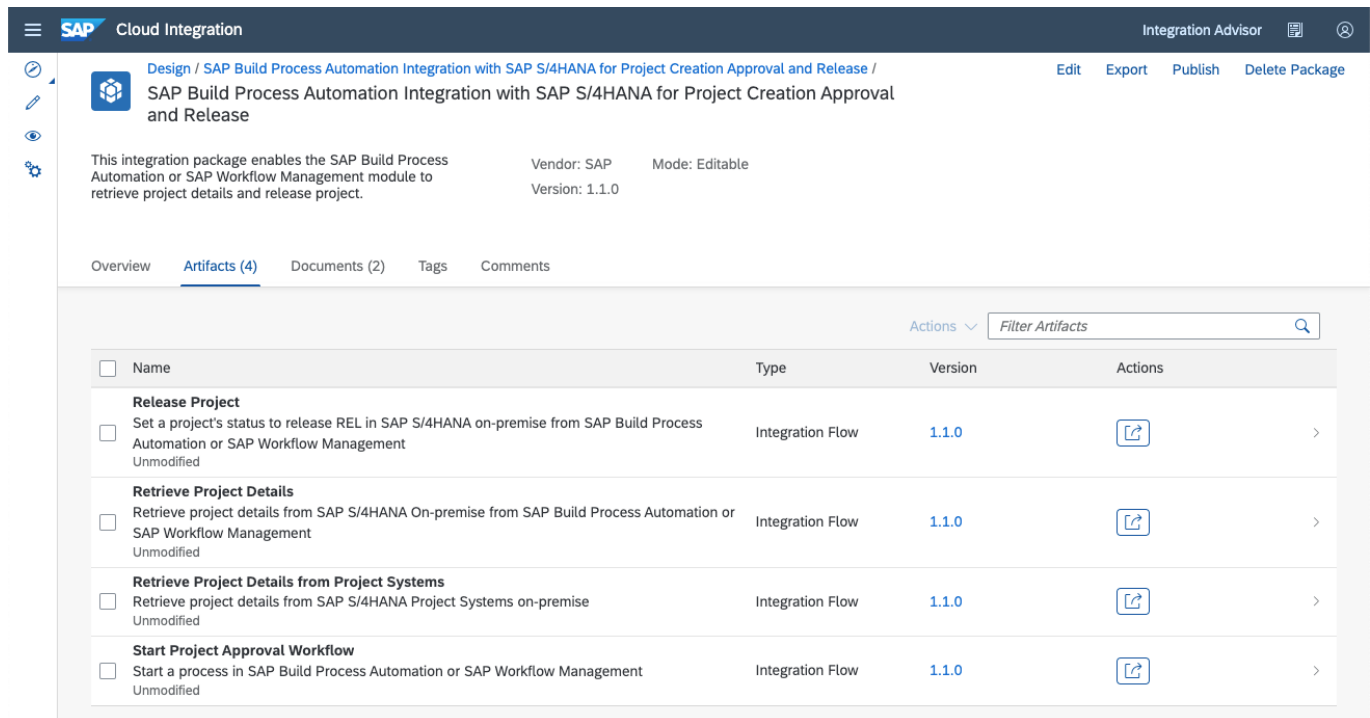
## Configure Cloud Connector

For SAP S/4HANA on-premise landscape, configure cloud connector to enable secure tunnel to SAP BTP tenant. Please refer the help documentation to [configure Cloud Connector](#). Expose the following BAPI/RFC in the SAP Cloud Connector:

1. BAPI\_BUS2172\_GET\_DETAIL
2. BAPI\_BUS2001\_GETDATA
3. ZZBAPI\_BUS2001\_SET\_STATUS

## Import, configure and deploy cloud integration content

The live process content **Project Creation Approval and Release** requires this cloud integration package to create a project in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release** 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.



The screenshot displays the SAP Cloud Integration interface for the package "SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release". The interface includes a header with the SAP logo and "Cloud Integration" text, and a sub-header with "Integration Advisor" and user icons. The main content area shows the package name, a description, and metadata (Vendor: SAP, Mode: Editable, Version: 1.1.0). Below this, there are tabs for "Overview", "Artifacts (4)", "Documents (2)", "Tags", and "Comments". The "Artifacts (4)" tab is active, showing a table of artifacts with columns for Name, Type, Version, and Actions. The table lists four artifacts, all of which are Integration Flows with version 1.1.0.

| Name   | Type             | Version | Actions  |
|--|------------------|---------|----------|
| <b>Release Project</b><br>Set a project's status to release REL in SAP S/4HANA on-premise from SAP Build Process Automation or SAP Workflow Management<br>Unmodified | Integration Flow | 1.1.0   | [Copy] > |
| <b>Retrieve Project Details</b><br>Retrieve project details from SAP S/4HANA On-premise from SAP Build Process Automation or SAP Workflow Management<br>Unmodified   | Integration Flow | 1.1.0   | [Copy] > |
| <b>Retrieve Project Details from Project Systems</b><br>Retrieve project details from SAP S/4HANA Project Systems on-premise<br>Unmodified                           | Integration Flow | 1.1.0   | [Copy] > |
| <b>Start Project Approval Workflow</b><br>Start a process in SAP Build Process Automation or SAP Workflow Management<br>Unmodified                                   | Integration Flow | 1.1.0   | [Copy] > |

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 Project Creation Approval and Release".
- Click on the package SAP Build Process Automation Integration with SAP S/4HANA for Project Creation Approval and Release .

- 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 workflow service instance was created with the following scopes - WORKFLOW\_INSTANCE\_GET, WORKFLOW\_INSTANCE\_START, WORKFLOW\_INSTANCE\_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.

## RFC Adapter Configuration

- Open the integration model **Release Project**
- Click **Configure** button, choose the appropriate receivers (workflow, process visibility or SAP S/4HANA) and set their respective API endpoint and credential names.

Configure "Release Project"

The screenshot shows the configuration interface for the 'Release Project' integration model. It features two tabs: 'Sender' and 'Receiver', with 'Receiver' selected. Under the 'Receiver' tab, there are three configuration fields: 'Receiver' (a dropdown menu set to 'Receiver'), 'Adapter Type' (a dropdown menu set to 'RFC'), and 'Destination' (a text input field containing 'S4HANA'). The 'Connection' label is positioned to the left of the 'Destination' field.

- Save and Deploy the integration model.
- Similarly, configure the **Retrieve Project Details**, **Retrieve PS Project Details**, **Start Project Approval Workflow** integration model and deploy them.