

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

SAP S/4HANA Integration with SAP Build Process
Automation for Plan Activity Prices Approval

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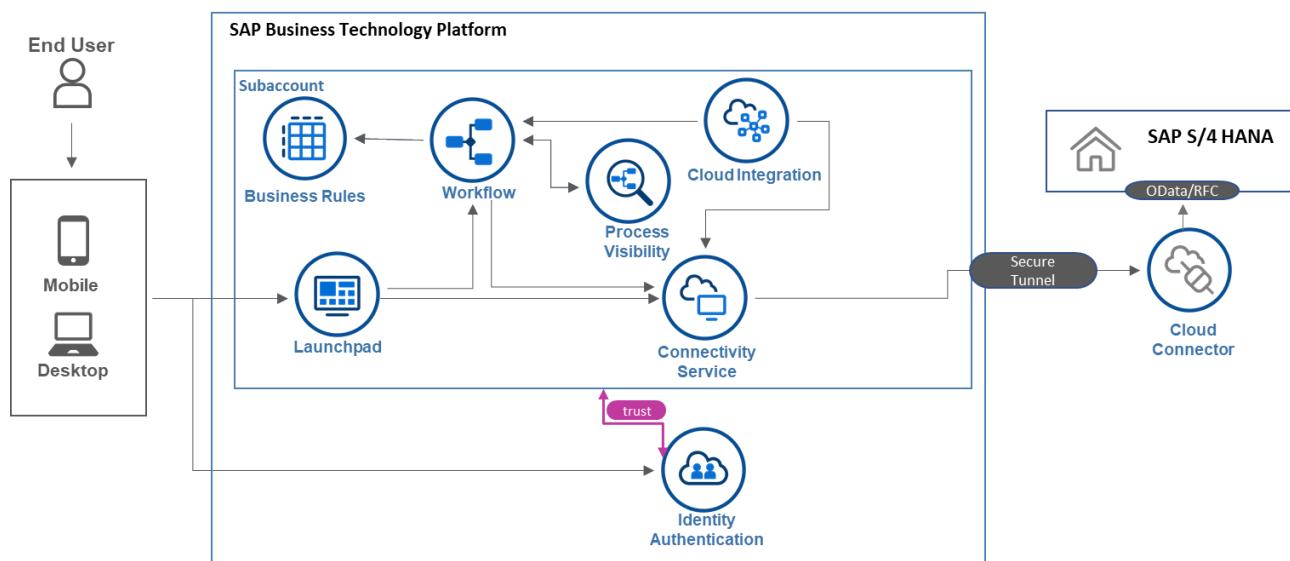
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Overview

This document provides information about configuration steps to consume the package **SAP S/4HANA Integration with SAP Build Process Automation for Plan Activity Prices Approval**.

This use case deals with updating the Planned activity / Capacity and Price(fixed) and Variable, etc. as per a specific cost center and an activity type. Controller will initiate the approval process in BTP from start UI - Plan activity prices. Data can be entered through manual input or from excel upload

Solution Diagram



This Integration Package contains the following salient features:

- Get Approvers for Plan Activity Prices Approval integration model fetches approvers details for Plan Activity Prices Approval from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management.
- Get Cost Center Owner Address for Plan Activity Prices Approval integration model fetches cost center owner email address for Plan Activity from SAP S/4HANA to SAP Build Process Automation or SAP Workflow Management.
- Update Activity Type Price Planning integration model updates activity type price planning in SAP S/4HANA from SAP Build Process Automation or SAP Workflow Management.

Required SAP Business Technology Platform Services

The live process content package **SAP S/4HANA Integration with SAP Build Process Automation for Plan Activity Prices Approval** is intended to be used for SAP S/4HANA and requires the following services in SAP BTP:

- SAP Build Process Automation **or** SAP Workflow Management to orchestrate the process.
- Cloud integration capability within SAP Integration Suite.
- SAP Connectivity service (cloud connector) to establish access to SAP S/4HANA.
- SAP Launchpad service to access the apps that are involved in the process.
- SAP Business Application Studio to modify/deploy the SAPUI5 applications.
- SAP BTP, Cloud Foundry runtime.
- SAP Cloud Identity Services (Optional)

Setup and Configuration

This section will explain how to setup the integration content that is required for the live process content package **SAP S/4HANA Integration with SAP Build Process Automation for Plan Activity Prices Approval** .

Configure RFC Destination

Configure a RFC destination to connect with SAP S/4HANA on-premise. Below is a destination configuration for *SAP S/4HANA on-premise*.

Note: This destination is required by Cloud Integration (Suite).

Name	<RFC_DESTINATION_NAME>
Type	RFC
Proxy Type	OnPremise
User	<ONPREMISE_USER>
Password	<ONPREMISE_PASSWORD>
Repository User	<ONPREMISE_USER>
Repository Password	<ONPREMISE_PASSWORD>

Additional Properties	jco.client.ashost: <host>
Additional Properties	jco.client.client:<client number>
Additional Properties	jco.client.lang: <language>
Additional Properties	jco.client.sysnr:<system 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](#).

Services/Resources that need to be exposed from SAP S/4HANA (on-premise) using Cloud Connector

Resources	Protocol	Backend-Type
/sap/opu/odata/sap/API_COSTCENTER_SRV	OData	ABAP System
BAPI_USER_GET_DETAIL	RFC	ABAP System
BAPI_COSTACTPLN_POSTACTOUTPUT	RFC	ABAP System
BAPI_TRANSACTION_COMMIT	RFC	ABAP System
BAPI_TRANSACTION_ROLLBACK	RFC	ABAP System
ZWF_FM_HR_MASTER_GET_APPR_MULT	RFC	ABAP System

Import, configure and deploy cloud integration content

This live process content requires the cloud integration to process the – Treasury Payment Request in SAP S/4HANA. The integration content package **SAP S/4HANA Integration with SAP Build Process Automation for Plan Activity Prices Approval** is available in SAP API Business hub to integrate SAP Build process Automation or SAP Workflow Management with SAP S/4HANA. Integration models use RFC and OData to integrate with SAP S/4HANA. The following integration models are available in this package.

1. Get Approvers for Plan Activity Prices Approval
2. Get Cost Center Owner Address for Plan Activity Prices Approval
3. Update Activity Type Price Planning

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 S/4HANA Integration with SAP Build Process Automation for Plan Activity Prices Approval**”.
- Click on the package “**SAP S/4HANA Integration with SAP Build Process Automation for Plan Activity Prices Approval**”.
- 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. In Integration Suite, open Operations view, then click on Security Material to create and deploy security materials.
 - S4HANA – (User Credentials)

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 OData and RFC adapter configurations.

RFC Adapter Configuration

- Open the integration model *Get Approvers for Plan Activity Prices Approval*.
- Click **Configure** button, choose receiver "SAP_S4HANA_RFC" and set the required destination name.

- Go to More tab and enter the RFC_Name and if required, change the values for HTTP Session Reuse and Transaction Handling.

Configure "Get Approvers for Plan Activity Prices Approval"

Sender Receiver **More**

Type:	All Parameters
HTTP_Session_Reuse:	onExchange
RFC_Name:	ZWF_FM_HR_MASTER_GET_APPR_MULT
Transaction_handling:	Not Required

- Save the integration model.
- Configure similar parameters for receiver "SAP_S4HANA_RFC" in *Update Activity Type Price Planning* and *Get Cost Center Owner Address for Plan Activity Prices Approval* models and save the configurations.

OData Adapter Configuration

- Open the integration model *Get Cost Center Owner Address for Plan Activity Prices Approval*.
- Click **Configure** button, choose receiver "SAP_S4HANA_ODATA" and set the respective endpoint (host and port) and credential details.
- Go to More tab and enter the ClientNo and if required, change the values for HTTP_Session_Reuse and Transaction_Handling.

Configure "Get Cost Center Owner Address for Plan Activity Prices Approval"

Sender Receiver **More**

Type:	All Parameters
ClientNo:	200
HTTP_Session_Reuse:	onExchange
Transaction_handling:	Not Required

- Save the integration model.
- Once all the required configurations are done, deploy all the integration models.

Note: If Approver Determination Strategy is selected as “External Service” in workflow configurations, then a Cloud integration model *Get Approvers for Plan Activity Prices Approval* with the below mentioned endpoint, input and output details will be called to get the required approver details. In case there is a need for implementation of custom Cloud integration model then the same needs to have the below mentioned endpoint, input and output structure.

API Attributes	Values
Path	/http/getApproverspapawfm
HTTP Method	POST
Payload sent by workflow (sample data)	<pre>{ "d": { "positions": [{ "companyCode": "4001", "positionID": "50000508" }] } }</pre>
Response Payload from integration flow	<p>RESPONSE STATUS, Ex 200 OK</p> <pre>{ "d": { "status": "Success", "message": "Data fetched successfully", "approvers": [{ "userID": "ABC", "emailID": "abc@abc.com", "name": "ABC ABC", </pre>

	<pre>"companyCode": "4001", "positionID": "50000508" }] } }</pre>
Payload Type	Application / JSON