

Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA
for managing Asset Creation Requests

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Overview

This package contains Integration flows to create Assets in SAP S/4HANA from SAP Build Process Automation or SAP Workflow Management and to receive confirmation from SAP S/4HANA and update in SAP Build Process Automation or SAP Workflow Management.

This package contains the below Integration flows

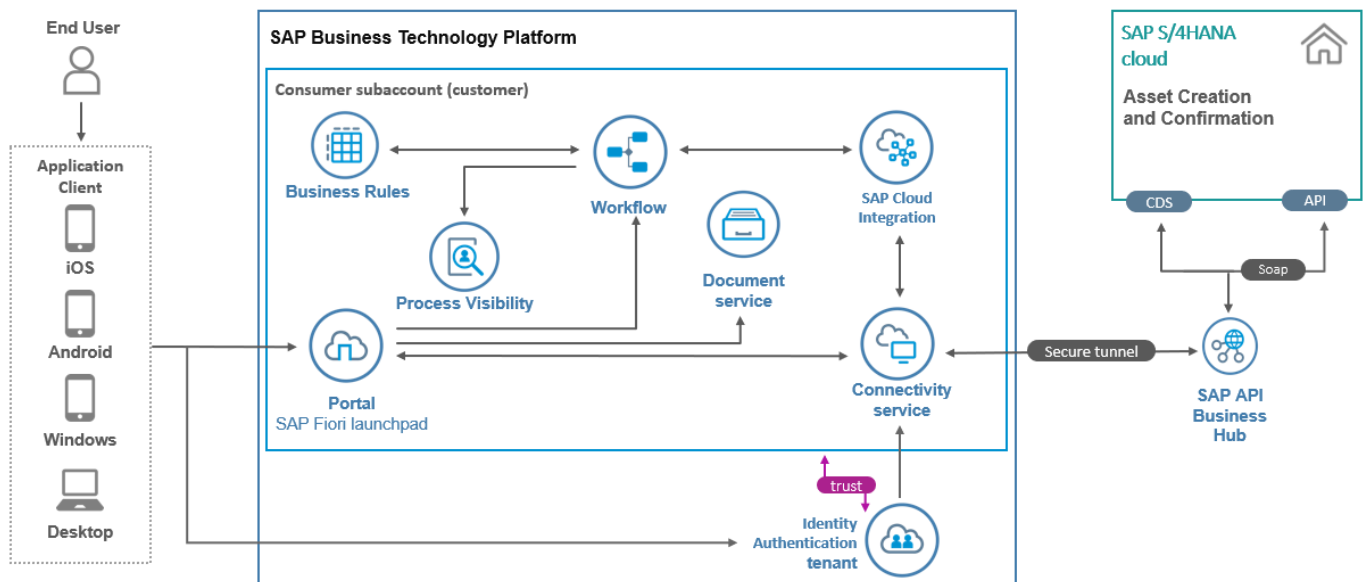
- Asset Creation - Asset Creation message is received from SAP Build Process Automation or SAP Workflow Management to create the Asset in SAP S/4 HANA via cloud integration iFlow.
- Asset Confirmation – Asset confirmation is received from SAP S/4HANA to Cloud integration iFlow which is passed on to SAP Build Process Automation or SAP Workflow Management.
- Asset Creation and confirmation workflow processes are in place to automate Asset Accounting process so that these transactions can be tracked and monitored before actual document postings in SAP S/4 HANA.

Applicable Scenarios (For new Assets)

- ABT1N: Intercompany asset transfer
- AIAV: Line-item settlement of AUC
- KO88: Internal Order settlement

Disclaimer: Please note that this content package is a template to facilitate custom build extensions. A full-fledged master data management solution, with data quality management and governance capabilities is available on SAP Business Technology Platform, please see [SAP Master Data Governance](#).

Manage Asset Creation Requests



Required SAP Business Technology Platform Services

The live process content package “SAP Build Process Automation Integration with SAP S/4HANA for Managing Asset Creation Requests” 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 Integration Suite for data activities with Asset creation and confirmation.
- 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.

Setup and Configuration

This section will explain how to set up the integration content that is required for the live process content packages **SAP Build Process Automation Integration with SAP S/4HANA for Managing Asset Creation Requests**.

Configure SAP S/4HANA Communication User

Communication User is setup, which is required for the flows between Cloud iFlow, Cloud workflow or SAP Build Process Automation and SAP S/4HANA Cloud.

Name	<User Name>
Password	<Password>

Configure SAP S/4HANA Communication system

Communication system is setup, which is required for the flows between Cloud IFlow, Cloud workflow and SAP S/4HANA Cloud.

General	
System ID	<System ID>
System Name	<System name>
Host Name	<Host Name of System>
Port	<ex. 443>
Users for Inbound Communication	
User Name	<Username>
Authentication Method	Username and Password

Users for Outbound Communication	
User Name	<Enter Cloud iFlow user>
Authentication Method	User Name and Password
Password	<Enter Password of user of connect to Cloud iFlow>

Configure SAP S/4HANA Communication Arrangement

Configure SAP S/4 HANA communication arrangement that combines the system and user created in the above steps. Below is an arrangement configured in *SAP S/4HANA cloud*.

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

Scenario	Finance – Fixed asset Integration (SAP_COM_0563)
Common Data	
Arrangement Name	SAP_COM_0563
Communication System	<System Name>
Inbound Communication	
User Name	<Configure User created for Inbound communication>
Authentication Method	User ID and password
Inbound Services	
Service	<<Inbound Services automatically populate>>
Outbound Communication	
User Name	<Configure User created for Outbound communication>
Authentication Method	User ID and password
Outbound Services	Fixed Asset- Create Main Asset (Asynchronous) Confirmation
Service status	Active
Path	/cxf/<AssetConfirmation_iFlow_Address>
Port	443

Import, configure and deploy cloud Integration content

The live process content requires cloud integration to process Asset creation and confirmation from SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Managing Asset Creation Requests** is available in SAP API Business hub to integrate SAP Workflow Management or SAP Build Process Automation with SAP S/4HANA.

- Asset Creation
- Asset Confirmation

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 Managing Asset Creation Requests**”.
- Click on the package SAP Build Process Automation Integration with SAP S/4HANA for Managing Asset Creation Requests.
- 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.
- Open Operations view, then click on Security Material to create and deploy security materials.
- S4HANA – (User Credentials) To call the asset creation API in SAP S/4HANA. Make sure the user has the relevant communication scenarios as mentioned in section Configure Communication Scenarios in SAP S/4HANA.
- Workflow – (OAuth) To send back the asset number and confirmation to SAP Build Process Automation or SAP Workflow Management.

Make sure that the 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 SOAP and HTTP adapter configurations.

Asset Creation

- Open the integration model Asset Creation.
- Click Configure button, choose the appropriate Sender (SAP Build Process Automation or SAP Workflow Management) and receiver (SAP S/4HANA) and set their respective API endpoint and credential names.
- Configure cloud integration parameters to enable the End-to-end flow of business data. Navigate to the IFlow and Click on configure on the top right. Once all parameters are configured, Click on Deploy.

Asset Creation	
Sender	
User Role	ESBMessaging.Send
CSRF Protected	<Select if Additional security requested>
Body Size	<Enter Desired Maximum Payload body size allowed>
Receiver	
Host	<Maintain SAP S/4HANA API host>
Authentication	<Select desired authentication Method>
Credential Name	<Select the Corresponding Credential Name from security Material>
Timeout	<Enter desired connection Timeout in ms>
Return HTTP response code as header	<Check if required>
SAP RM Message ID determination	<Select Generate or Reuse>
More	

HTTP Session Reuse	<Select “On Exchange” or “On Integration flow”> based on requirement
Return Exception to Sender	<Check if desired>

- Deploy the integration model.

Asset Confirmation

- Open the integration model Asset Confirmation.
- Click Configure button, choose the appropriate Sender (SAP S/4HANA) and receivers (Authentication service and Workflow) and set their respective API endpoint and credential names.
- Configure cloud integration parameters to enable the End-to-end flow of business data. Navigate to the Iflow and Click on configure on the top right. Once all parameters are configured, Click on Deploy.

Asset Confirmation	
Sender	
Use WS- Addressing	<Select to use Web service addressing for endpoint> (Optional)
Processing Settings	<Select “Robust” or “WS Standard” depending on how to send errors back to sender>
User Role	<Select desired role>
Body Size	<Enter desired maximum payload body size>
Attachment Size	<Enter desired maximum attachment size>
Receiver	
Authentication Service	
Authentication_Host	<Mention Authentication service host name>
Authentication	<Select desired authentication method>
Credential Name	<Select the Corresponding Credential Name from security Material>
Timeout	<Enter desired connection Timeout in ms>
Workflow	
Receiver_Host	<Mention workflow api endpoint>
Timeout	<Enter desired connection Timeout in ms>
More	
HTTP Session Reuse	<Select “On Exchange” or “On Integration flow”> based on requirement
Return Exception to Sender	<Check if desired>

- Deploy the integration model.