

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Content Package for Stock Clearance with SAP Build Process Automation

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Overview

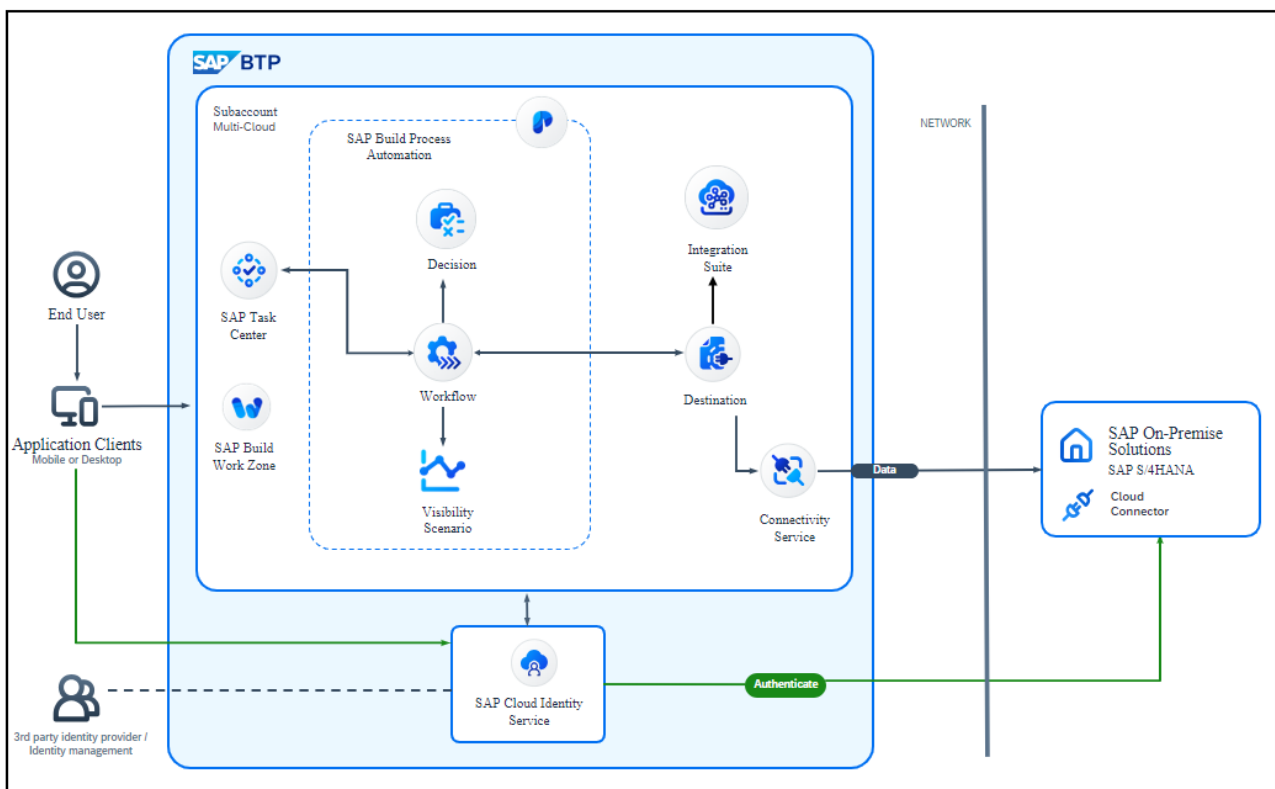
This document provides information about setting up the SAP Business Technology Platform account to consume the SAP Build Process Automation content package for **Stock Clearance**. The main audience of this document are technical IT/system administrators.

The scenario enables a workflow on the stock clearance process. The workflow sends the AVIS list regarding stock clearance to responsible stock clearance admin using SAP Build Process Automation.

This package contains the following features:

- Trigger workflow with a Start-UI
- Collect data from backend required for workflow execution
- Notify workflow participants
- (Semi-) automatic check of AVIS list data quality and checks on subsidiary side
- Headquarter decides on item level, which articles can be sent back to the supplier, can be stored centrally, or can be scrapped
- Use standard API to create goods movements to represent Headquarter decision execution

Stock Clearance



Required SAP Business Technology Platform Services

The SAP Build Process Automation content package for **Stock Clearance** is intended to be used for SAP S/4HANA and requires the following services in SAP Business Technology Platform.

- SAP Build Process Automation
- SAP Integration Suite
- SAP Connectivity service
- SAP Business Application Studio
- SAP Application Runtime Service
- SAP Work Zone, standard or advanced
- SAP Cloud Identity Services - Identity Authentication (optional)

Setup and Configuration

Stock Clearance content package requires SAP Build Process Automation. Based on which service you plan to use, follow the appropriate section to configure either SAP Build Process Automation.

SAP S/4HANA

Configure SAP S/4HANA Destination

Configure a destination to connect with SAP S/4HANA on-premise or SAP S/4HANA cloud, refer to documentation [here](#) for the same. The below is a destination configuration for for SAP S/4HANA Cloud.

Name	S4HANA
Type	HTTP
Proxy Type	Internet
User	<COMMUNICATION_USER>
Password	<COMMUNICATION_PASSWORD>
Authentication	BasicAuthentication
URL	<OData base URL of SAP S/4HANA cloud>
Additional Properties	sap-client: <client number>

Configure Communication Scenarios in SAP S/4HANA

Following Communication Scenarios are needed to be configured in SAP S/4HANA or SAP S/4HANA Cloud to use the content package.

API Product Master: Communication Scenario: SAP_COM_0009

API Material Stock – Read: Communication Scenario: SAP_COM_0164

API Material Document – Create: Communication Scenario: SAP_COM_0108

Inbound Services consumed:

1. /sap/opu/odata/sap/API_PRODUCT_SRV for Product master details
2. /sap/opu/odata/sap/API_MATERIAL_STOCK_SRV for Product Stock details
3. /sap/opu/odata/sap/MaterialDocumentCreateRequest_Async_In to create Material document

Follow the documentation on how to Create Communication Arrangement for Communication scenarios:

[SAP_COM_0009](#)

[SAP_COM_0164](#)

[SAP_COM_0108](#)

Configure Cloud Connector

For SAP S/4HANA on-premises landscape, configure cloud connector to enable secure tunnel to SAP Business Technology Platform tenant. Please refer the help documentation to [configure Cloud Connector](#).

SAP Business Technology Platform Cockpit

Configure SAP Build Process Automation

Follow the setup and configuration section of SAP Build Process Automation:

- [Subscribe to SAP Build Process Automation \(Standard Plan\)](#)
- [Configure Destinations for Live Process Projects](#)
 - Import Package Destination
 - Business Rules Destination to support start and step conditions
- [Configure SAP Work Zone Service for SAP Build Process Automation](#)

Configure Process Automation Destination

A destination is required in the Business Technology Platform 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	OAuth2ClientCredentials
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token

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](#):

Destination Configuration Blank Template Service Instance

Service Instance: *

Name: *

Description:

Additional Properties New Property

Next Cancel

Destination Configuration

Name: *

Type:

Description:

URL: *

Proxy Type:

Authentication:

Use mTLS for token retrieval

Client ID: *

Client Secret:

Token Service URL Type: *

Token Service URL: *

Token Service User:

Token Service Password:

Additional Properties

endpoints	{"api":"https://..."}	
html5-apps-...	{"app_host_id":"4000..."}	
saasregistry...	true	
sap.cloud.s...	com.sap.spa.process...	
sap.cloud.s...	spa	

Use default JDK truststore

Save Cancel

Configure SAP Integration Suite Destination

To call an integration flow, a destination is required in the SAP Business Technology Platform tenant where the SAP Build Process Automation is subscribed. Create a destination called CPI with either Basic Authentication **or** OAuth2ClientCredentials.

Package: **SAP Build Process Automation Integration with SAP S/4HANA for Stock Clearance**

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 Integration Suite.

WebIDEnabled	true
WebIDESystem	CPI
WebIDEUsage	odata_gen

Setup Content Package

Import and deploy Integration Content

This workflow content requires the Integration Suite to process the Stock Clearance in SAP S/4HANA. The integration content package **SAP Build Process Automation Integration with SAP S/4HANA for Stock Clearance** is available in SAP API Business hub to integrate SAP Build Process Automation with SAP S/4HANA. Integration models use OData APIs to integrate with SAP S/4HANA.

The following integration models are available in this package.

- Create Material Document
- Get Material Stock Data

Import the integration package to your SAP Integration Suite 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 Stock Clearance](#).
- Click on the package **SAP Build Process Automation Integration with SAP S/4HANA for Stock Clearance**.
- 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.

- **S4HANA** – (User Credentials) To call the Material Document APIs in SAP S/4HANA. Make sure that the user has the relevant communication scenarios as mentioned in section Configure SAP S/4HANA Communication User.

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

- Name: * S4HANA
- Description: To communicate with S4HANA
- Type: * User Credentials
- User: * [Masked]
- Password: [Empty]
- Repeat Password: [Empty]

At the bottom right, 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.

Further details can be found in integration guide.

Import and deploy SAP UI5 Application content

Following steps can be followed to utilize the SAP UI5 application provided with this process package:

- Download the SAPUI5 application file from the imported store project, it will available under the file section in the package.
- Open Business Application Studio and import the previously downloaded SAPUI5 project.
- Ensure that you have already created the SAP Build Process Automation instance and the same instance details need to be updated in the mta.yaml file available in the SAP UI5 application project.

package-lock.json	83	
package.json	84	
StartUI-content.zip	85	
ui5.yaml	86	
xs-app.json	87	
mta.yaml	88	
package-lock.json	89	service-plan: application
README.md	90	service: xsuaa
xs-security.json		type: org.cloudfoundry.managed-service
		- name: Destination
		type: org.cloudfoundry.existing-service
		- name: SBPA-instance
		type: org.cloudfoundry.existing-service

- Update your process definition id (Package needs to be deployed) in the i18n.properties file (property: DEFINITION_ID) as shown in the following snippets (definition id only needs to be updated in start UI application).
- Build SAPUI5 project using mta.yaml file & the generated project (generated mtar file will be available in the mta_archives folder) file can be deployed.
- In case of Start UI, after successful deployment of the project, it can be accessed using through SAP standard work zone & user can provide the required journal entry details & submit the form for the journal entry approval & posting. Please refer to the

configuration guide for more details.

Note:

Destination names need to be updated in xs-app.json that was previous configured in “Configure SAP S/4HANA Destination” section.

Import SAP Build Process Automation content

In the [SAP Build Process Automation Store](#), search for live process package Joint Venture Cash Call Approval Process and import the same. Please go to Configuration Guide for further process.