

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Content Package for Stock Clearance with SAP Workflow Management or SAP Build Process Automation

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Overview

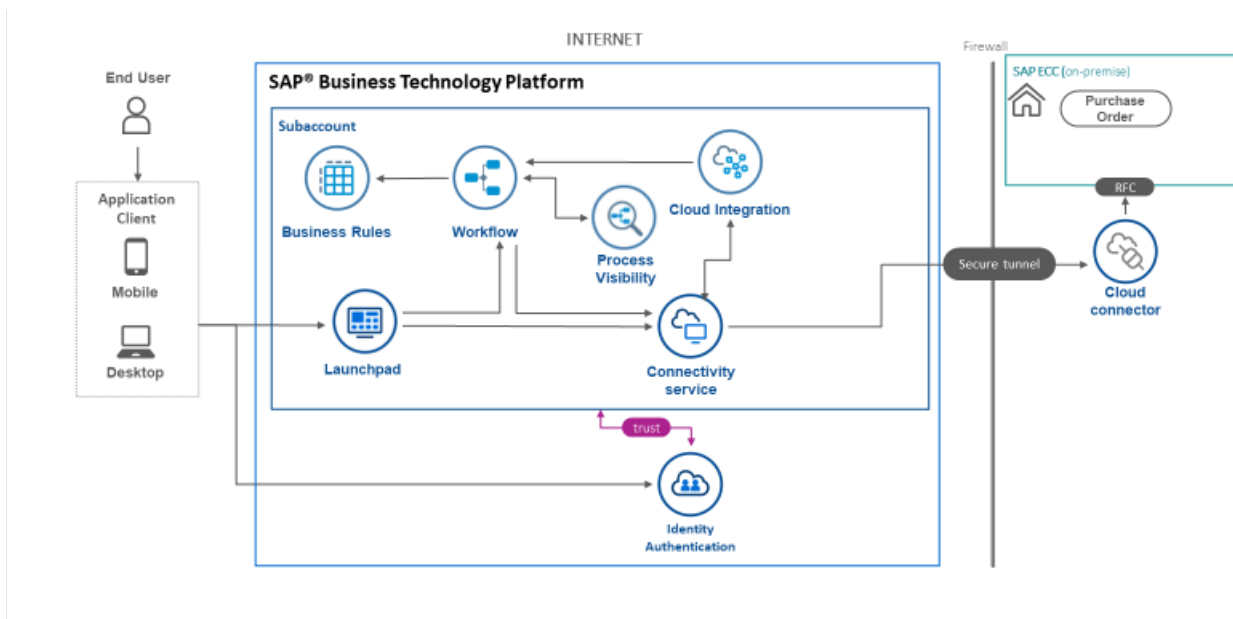
This document provides information about setting up the SAP Business Technology Platform account to consume the workflow content package Content Package for **Stock Clearance**. The main audience of this document are technical IT/system administrators.

The scenario enables automatically send notifications and the AVIS list regarding stock clearance to responsible stock clearance admin using BTP Workflow and Business Rules capabilities

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 BTP Services

The workflow content package 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 or SAP Workflow Management to orchestrate the process.
- SAP Integration Suite to push Sales Order lifecycle events on to Process Visibility Service.
- SAP Connectivity service (cloud connector) to establish access to SAP S/4HANA on-premise.
- 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.
- SAP BTP, Cloud Foundry runtime.

Setup and Configuration

Stock Clearance content package requires SAP Build Process Automation or SAP Workflow Management subscription or a CPEA contract. Based on which service you plan to use, follow the appropriate section to configure either SAP Build Process Automation or SAP Workflow Management.

Configure SAP Build Process Automation

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

1. [Subscribe to SAP Build Process Automation \(Standard Plan\)](#)
2. [Configure Destinations for Live Process Projects](#)
 - a. Import Package Destination
 - b. Business Rules Destination to support start and step conditions
3. [Optional] [Configure SAP Launchpad Service for SAP Build Process Automation](#)

Configure Process Automation Destination

A HTTP destination is required in the BTP 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	OAuth2ClientCredentias
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token

Note: While creating the service instance for SAP Build Process Automation service, make sure that at least the required scopes are assigned (help documentation to enable technical authentication to [access the SAP Build Process Automation APIs](#)). If the scopes are not assigned, you can also [update the service instance](#) with the required scopes.

Configure OAuth2ClientCredentias 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:

<https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>.

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": "..." }	
saasregistry...	true	
sap.cloud.s...	com.sap.spa.process...	
sap.cloud.s...	spa	

Use default JDK truststore

Save Cancel

Configure SAP Workflow Management

Content Package for **Stock Clearance** content package requires SAP Workflow Management subscription or a CPEA contract. Follow the setup and configuration section of SAP Workflow Management.

<https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/d7910e2bf7f64afc9d0eb21b0cc9e84d.html>

Note: While creating the service instance for Workflow service, make sure that at least the following scopes are assigned (help documentation to [enable technical authentication](#) to access the workflow APIs). If the scopes are not assigned, you can also [update the service instance](#) with the following scopes.

- WORKFLOW_INSTANCE_GET
- WORKFLOW_INSTANCE_START
- WORKFLOW_INSTANCE_CANCEL

Configure Workflow Email Destination

Configure workflow email destination to automatically send email notification to the involved parties. For more information on configuring the destination, see [configure workflow email destination](#).

Configure Workflow Destination

A HTTP destination is required in the BTP subaccount where SAP Workflow Management is subscribed. Create a destination with name "Workflow" 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	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rest_api_url>
Client ID	<client ID>
Client Secret	<client secret>
Token Service URL	<uaa.url>/oauth/token

Configure Business Rules Destination

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Create a destination with name "BUSINESS_RULES" with the following configuration, if it doesn't exist already. Please refer how to [create a HTTP destination](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

Name	BUSINESS_RULES
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rule_runtime_url>/rules-service
Client ID	<client ID>
Client Secret	<client secret>
Token Service URL	<uaa.url>/oauth/token

Configure OAuth2 Client Credentials Workflow Destination (Service Instance)

Similarly, create new Destination to call Workflow Service APIs using a Service route from SAP UI5 Component. For more details, follow the official help document: <https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>

Configure Cloud Integration Destination

To call an integration flow, a HTTP destination is required in the SAP BTP tenant where the SAP Build Process Automation or SAP Workflow Management 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 cloud integration.

WebIDEEEnabled	true
WebIDESystem	CPI
WebIDEUsage	odata_gen

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-

<https://help.sap.com/viewer/3c916ef10fc240c9afc594b346ffaf77/2202.500/en-US/74aa2b58a333a107e10000000a441470.html>

SAP_COM_0164-

<https://help.sap.com/viewer/bb9f1469daf04bd894ab2167f8132a1a/2202.500/en-US/f68f51a4dc2e46779877a10a301d9138.html>

SAP_COM_0108

<https://help.sap.com/viewer/bb9f1469daf04bd894ab2167f8132a1a/2202.500/en-US/9a5419d6aebb415c8b471e615bf90ae5.html>

Configure SAP S/4HANA Destination

Configure a HTTP 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 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](#).

Import, Configure and deploy Integration Content

This package utilizes SAP Cloud Integration to provide integration between SAP ERP and SAP Workflow.

Further details can be found in dedicated integration guide. The guide can be found in project workspace.

Configure SAP Central Fiori Launchpad Site for SAP Workflow Management

If you plan to use SAP Launchpad service, then configure [SAP Central Fiori Launchpad Site with Workflow Applications](#) using help documentation.

Add the app configuration for Stock Clearance Start UI according to the steps provided in the link above. The configuration should look like this:

The image shows two screenshots of the SAP Fiori Launchpad configuration interface for an application named 'Start Workflow'.

Top Screenshot: General and Configuration tabs

General Tab:

- Title: Start Workflow
- Description: Stock Clearance Process
- ID: com.sap.content.workflowuistockclearancestartui
- Open App: In place

Configuration Tab:

- System: saas_approuter_cbswor
- App UI Technology: SAPUI5
- SAPUI5 Component Name: com.sap.content.workflowuistockclearancestartui
- Parameters:

Name	Value
subaccountid	4cfd9e77-6d16-4716-8610-0c84e726f86f
saasApprouter	true

Additional Info Tab:

- Keywords: -
- Created: Mar 4, 2022, 2:37:19 PM
- Created By:

Bottom Screenshot: Navigation tab

Intent:

- Semantic Object: StartUI
- Action: display

Parameters:

Name	Default Value	Filter Value	Rename To	Required
No data				

Allow additional parameters

General

Visualization Type:
Static App Launcher

Size:
1x1

Title ⓘ
Start Workflow

Subtitle:
Stock Clearance Process

Information:
Start Workflow

Icon ⓘ
task

Supported Devices:
 Desktop Tablet Mobile

Parameters:

Name	Value
	No data

Preview

