

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Setup Guide

## Supplier Lock with SAP Workflow Management or SAP Build Process Automation

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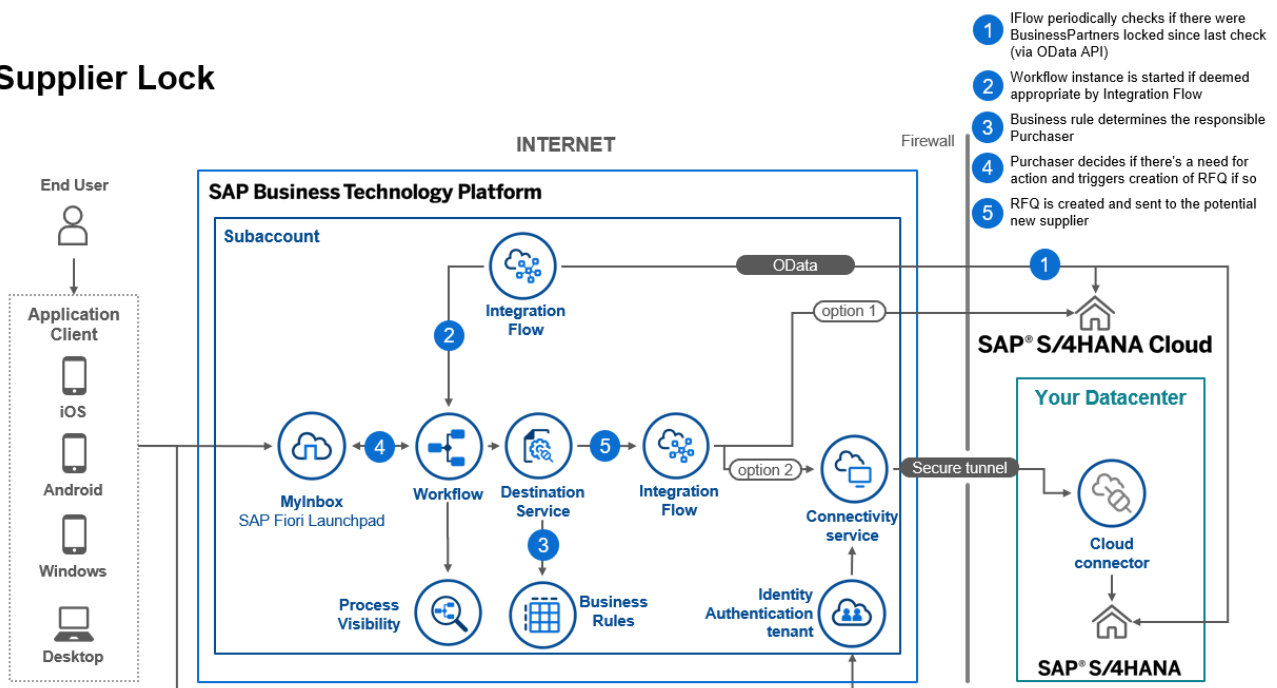
# Overview

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

In situations, where a company decides to remove a supplier from their business network (e.g. to change to a different supplier), some actions need to be taken. In this situation, it is necessary to evaluate all business relations with the old supplier by analyzing source list entries, valid info records, open contracts and find suitable replacements. This can be done by sending out an RFQ for each material without source.

- Automatically detect when a Business Partner of type supplier was marked as locked in the system
- Compile a list of all affected materials from Purchase Contracts, Central Purchase Contracts, Purchasing Info Records and Purchasing Source Lists
- Offer user tasks for the responsible Purchaser based on the Purchasing Organization of the affected materials, giving the Purchaser the possibility to select materials relevant for creation of an RFQ

## Supplier Lock



## Required SAP BTP Services

The workflow content package **Supplier Lock** is intended to be used for Purchasing department in 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 Business Partner lifecycle events to SAP Workflow Management.
- 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.

# Setup and Configuration

**Supplier Lock** 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: \* sap\_processautomation

Name: \* process\_atuomation\_service\_destination

Description: Call SAP Process Automation APIs using a service route

Additional Properties New Property

Next Cancel

Destination Configuration

Name: \* process\_automation\_service\_destination

Type: HTTP

Description: Call SAP Process Automation APIs using a s...

URL: \* https://sap.com/DUMMY\_URL

Proxy Type: Internet

Authentication: OAuth2ClientCredentials

Use mTLS for token retrieval

Client ID: \* sb-...i9...

Client Secret: \*\*\*\*\*

Token Service URL Type: \* Dedicated Common

Token Service URL: \* https://.../...

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

Supplier Lock 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 Destination for getting destination configuration

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Create a destination with name "destination-read" with the following configuration, if it doesn't exist already. Please refer how to [create a HTTP destination](#).

Take the OAuth details from a destination service instance in your subaccount

Name	destination-read
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	https://destination-configuration.cfapps.<YOURDATACENTER>.hana.ondemand.com/destination-configuration/v1/destinations/
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 Supplier Locks

### 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

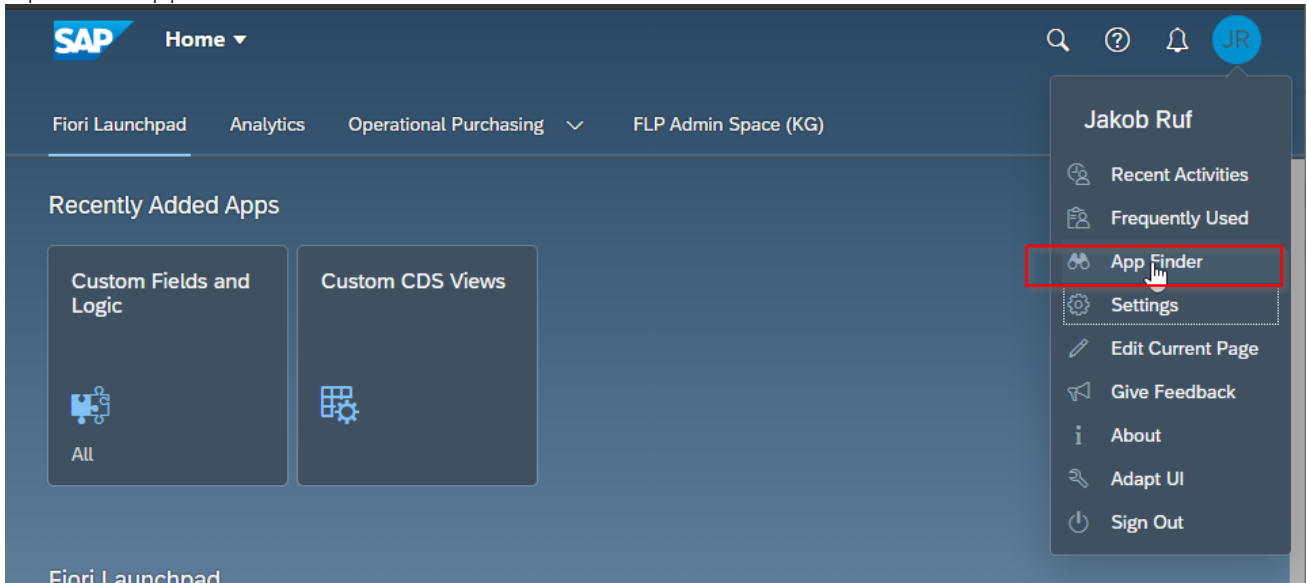
## Configure Custom CDS View Destinations - Currency

# Configure Custom CDS View in SAP S/4HANA

## CurrencyValueHelp

Open the Fiori Launchpad of your SAP S/4HANA system

Open the AppFinder



Search in category "All" for the App "Custom CDS Views"

Open "Custom CDS Views"

Create a new CDS View

Enter "CurrencyValueHelp" as the label and select "External API" as the Scenario

Create the View

Go into the view and in section "Data Sources", add a new Primary Data Source

Select I\_Currency as the Data Source

Go to section "Elements"

Add the elements as shown below:

- Currency (Path: I\_Currency.Currency)
- CurrencyISOCode (Path: I\_Currency.CurrencyISOCode)

Publish your view

## PlantValueHelp

Open the Fiori Launchpad of your SAP S/4HANA system

Open the AppFinder

Search in category "All" for the App "Custom CDS Views"

Open "Custom CDS Views"

Create a new CDS View

Enter "PlantValueHelp" as the label and select "External API" as the Scenario

Create the View

Go into the view and in section "Data Sources", add a new Primary Data Source

Select I\_Plant as the Data Source

Go to section "Elements"

Add the elements as shown below:

- Plant (Path: I\_Plant.Plant)
- PlantName (Path: I\_Plant.PlantName)
- DefaultPurchasingOrganization (Path: I\_Plant.DefaultPurchasingOrganization)
- PlantSupplier (Path: I\_Plant.PlantSupplier)

Publish your view

## **PurchasingGroupValueHelp**

Open the Fiori Launchpad of your SAP S/4HANA system

Open the AppFinder

Search in category "All" for the App "Custom CDS Views"

Open "Custom CDS Views"

Create a new CDS View

Enter "PurchasingGroupValueHelp" as the label and select "External API" as the Scenario

Create the View

Go into the view and in section "Data Sources", add a new Primary Data Source

Select I\_PurchasingGroup the Data Source

Go to section "Elements"

Add the elements as shown below:

- PurchasingGroup (Path: I\_PurchasingGroup.PurchasingGroup)
- PurchasingGroupName (Path: I\_PurchasingGroup.PurchasingGroupName)

Publish your view

## Configure Custom CDS View Destinations - Plant

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Create a destination with name "S4HANA\_PmOrdDcNtf\_MaintenanceOrder" with the following configuration, if it doesn't exist already. Please refer how to [create a HTTP destination](#).

Name	S4HANA_SupplLock_Plant
Type	HTTP
Proxy Type	Internet
Authentication	BasicAuthentication
URL	<OData base URL of SAP S/4HANA> /sap/opu/odata/sap/ZZ1_PLANTVALUEHELP_CDS/ZZ1_PlantValueHelp OR <OData base URL of SAP S/4HANA Cloud> /sap/opu/odata/sap/YY1_PLANTVALUEHELP_CDS/YY1_PlantValueHelp
User	<COMMUNICATION_USER>
Password	<COMMUNICATION_PASSWORD>
Additional Properties	sap-client: <client number>

## Configure Custom CDS View Destinations - Purchasing Group

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Create a destination with name "S4HANA\_PmOrdDcNtf\_MaintenanceOrder" with the following configuration, if it doesn't exist already. Please refer how to [create a HTTP destination](#).

Name	S4HANA_SupplLock_PurchasingGroup
Type	HTTP
Proxy Type	Internet
Authenticat ion	BasicAuthentication
URL	<OData base URL of SAP S/4HANA>

	/sap/opu/odata/sap/ZZ1_PURCHASINGGROUPVALUEHE_CDS/ZZ1_PurchasingGroupValueHe OR <OData base URL of SAP S/4HANA Cloud> /sap/opu/odata/sap/YY1_PURCHASINGGROUPVALUEHE_CDS/YY1_PurchasingGroupValueHe
User	<COMMUNICATION_USER>
Password	<COMMUNICATION_PASSWORD>
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.

SAP\_COM\_0008 - Business Partner

SAP\_COM\_0101 - Purchase Contract

SAP\_COM\_0243 - Central Purchase Contract

SAP\_COM\_0162 - Purchasing Source

SAP\_COM\_0145 - Info Record

SAP\_COM\_0113 - Request for quotation

Inbound Services consumed:

/sap/opu/odata/sap/API\_BUSINESS\_PARTNER

/sap/opu/odata/sap/API\_PURCHASECONTRACT\_PROCESS\_SRV

/sap/opu/odata/sap/API\_CENTRAL\_PURCHASECONTRACT\_SRV

/sap/opu/odata/sap/API\_INFORECORD\_PROCESS\_SRV

/sap/opu/odata/sap/API\_PURCHASING\_SOURCE\_SRV

/sap/opu/odata/sap/API\_RFQ\_PROCESS\_SRV

Follow the documentation on how to [Create Communication Arrangement](#) for Communication scenario SAP\_COM\_0008 - Business Partner

SAP\_COM\_0101 - Purchase Contract

SAP\_COM\_0243 - Central Purchase Contract

SAP\_COM\_0162 - Purchasing Source

SAP\_COM\_0145 - Info Record

SAP\_COM\_0113 - Request for quotation

## 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 S/4HANA and SAP Workflow.

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