

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Setup Guide

Business Partner Creation Approval Process using  
SAP Workflow Management or SAP Build Process  
Automation

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# Overview

This document provides information about configuration steps to consume the live process package **Business Partner Creation Approval Process**. The primary audience of this document is technical IT / system administrators.

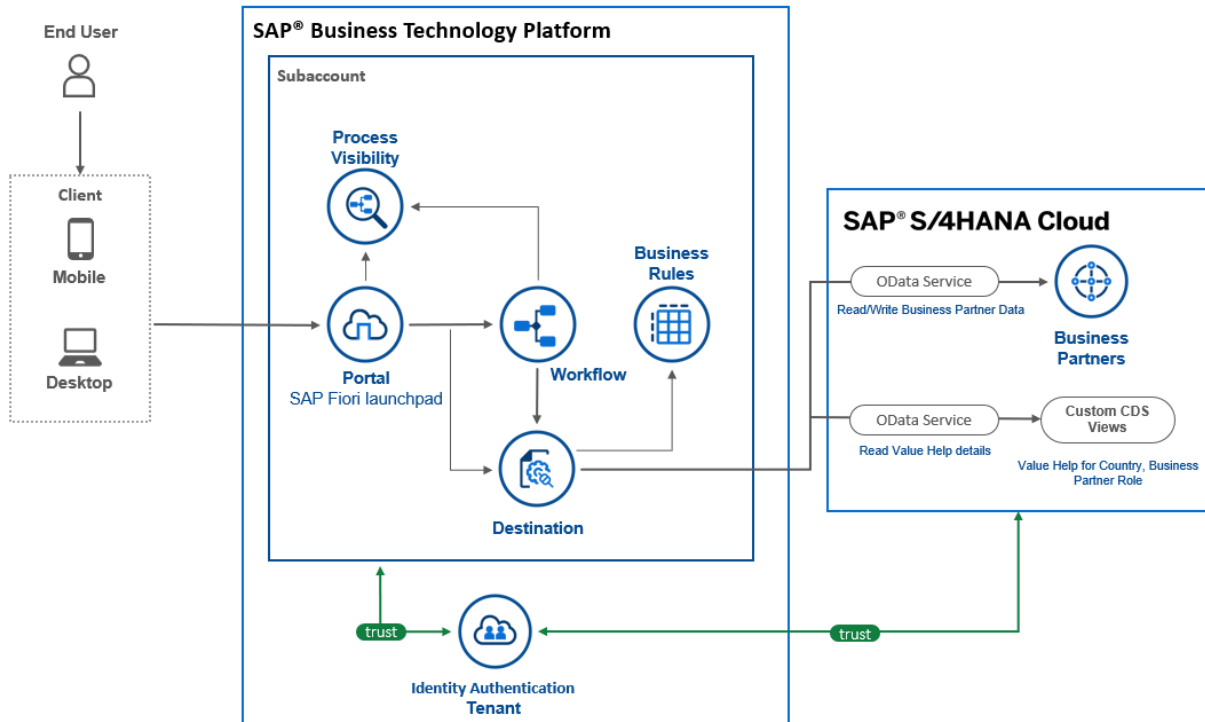
Business Partner Creation Approval Process content package for SAP S/4HANA Cloud enables to automate business partner creation in a flexible and transparent way. It provides flexibility in executing a specific variant of the process depending on attributes like business partner category, etc. When a user submits a request to create a new business partner, a pre-configured process variant is triggered in SAP Workflow Management or SAP Build Process Automation based on configurable business conditions. On approval, a business partner is created in SAP S/4HANA Cloud system.

Salient features of this content package are:

- Plug and Play with SAP S/4HANA Cloud without any additional development.
- Possible to create business partner of category types Person and Organization
- Process steps delivered to create a business partner
- Automatic email notification to parties involved.
- Business Rules provides flexibility in determining process variants and approvers
- Custom validation on business partner attributes using Business Rules.
- New variant of the process can be created using the pre-delivered process steps in a no-code / low-code approach
- Insight to actions using process visibility
- Out-of-the-box visibility into key process performance indicators

***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](#).***

## Business Partner Creation Approval Process with Workflow Management



# Required SAP Business Technology Platform Services

The following SAP BTP services are required to consume the content package Business Partner Creation Approval Process for SAP S/4HANA Cloud

- SAP Workflow Management or SAP Build Process Automation
- SAP Cloud Portal service / SAP Launchpad service
- SAP Web IDE / SAP Business Application Studio
- SAP Cloud Identity Services - Identity Authentication

# Setup and Configuration

The Business Partner Creation content package requires SAP Build Process Automation SAP Workflow Management subscription or a CPEA contract. Follow the [setup and configuration section](#) of SAP Workflow Management or SAP Build Process Automation.

## 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 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:

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

The screenshot shows the 'Destination Configuration' dialog with the 'Service Instance' tab selected. The 'Service Instance' dropdown is set to 'sap\_processautomation'. The 'Name' field contains 'process\_atuomation\_service\_destination' and the 'Description' field contains 'Call SAP Process Automation APIs using a service route'. There are 'Next' and 'Cancel' buttons at the bottom.

The screenshot shows the 'Destination Configuration' dialog with the 'OAuth2ClientCredentials' authentication type selected. The 'Name' field is 'process\_automation\_service\_destination' and the 'Type' is 'HTTP'. The 'URL' is 'https://sap.com/DUMMY\_URL'. The 'Proxy Type' is 'Internet'. The 'Client ID' is 'sb-...' and the 'Client Secret' is masked. The 'Token Service URL Type' is 'Dedicated' and the 'Token Service URL' is 'https://...'. The 'Additional Properties' section contains several key-value pairs: 'endpoints' with value '{\"api\":\"https://...\"}', 'html5-apps-...' with value '{\"app\_host\_id\":\"...\"}', 'saasregistry...' with value 'true', 'sap.cloud.s...' with value 'com.sap.spa.process...', and 'sap.cloud.s...' with value 'spa'. There is a checked checkbox for 'Use default JDK truststore'. There are 'Save' and 'Cancel' buttons at the bottom.

## Configure OAuth2UserTokenExchange Destination

Configure a destination with the following parameters:

Name	sap_process_automation_workflow_useraction
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2UserTokenExchange
URL	<"endpoints"."api">



Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token
Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: user

Name	sap_process_automation_workflow_systemaction
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2UserTokenExchange
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token
Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: system

Please refer help documentation [how to get URL, Client ID, Client Secret and Token Service URL](#). For more information refer to how to [create a HTTP destination](#).

### Configure SMTP Mail Destination

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

## Configure SAP Workflow Management

Follow the [setup and configuration section](#) of SAP Workflow Management.

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

### Configure Workflow Email Destination

Configure workflow email destination. For more information on configuring destination, see [Configure the Workflow Capability Mail Destination](#).

### Configure OAuth2ClientCredentials Workflow Destination

Use an existing or create a new Workflow service instance with at least the following authorities

(scopes):

WORKFLOW_INSTANCE_START
WORKFLOW_INSTANCE_GET

Please refer to the documentation on how to [Enable Technical Authentication](#) with specific authorities.

Configure a destination with the following parameters:

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentias
URL	https://api.workflow.<region-host>.hana.ondemand.com/workflow-service/rest
Client ID	
Client Secret	
Token Service URL	<"uaa":"url">/oauth/token
Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: system

Please refer help documentation [how to get URL, Client ID, Client Secret and Token Service URL](#). For more information refer to how to [create a HTTP destination](#) and [how to use Workflow APIs](#).

### Configure OAuth2UserTokenExchange Workflow Destination

Configure a destination with the following parameters:

Name	WorkflowActions
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2UserTokenExchange
URL	https://api.workflow.<region-host>.hana.ondemand.com/workflow-service/rest
Client ID	
Client Secret	
Token Service URL	<"uaa":"url">/oauth/token
Additional Properties:	Name: bpmprocessvisibility.triggerWorkflow Value: user

Please refer help documentation [how to get URL, Client ID, Client Secret and Token Service URL](#).

For more information refer to how to [create a HTTP destination](#) and [how to use Workflow APIs](#).

### Configure OAuth2ClientCredentials Business Rules Destination

Configure a Business Rules destination with name "BUSINESS\_RULES" with the following parameters:

Name: *	BUSINESS_RULES
Type:	HTTP
Description:	
URL: *	https://bpmruleruntime [redacted] /rules-service
Proxy Type:	Internet
Authentication:	OAuth2ClientCredentials
Client ID: *	sb-clone [redacted]  bpmrulebroker...
Client Secret:	.....
Token Service URL: *	https:// [redacted] .ondemand.com/...
Token Service User:	
Token Service Password:	

Please refer help documentation [how to get URL, Client ID, Client Secret and Token Service URL](#)

For more information refer to how to [create a HTTP destination](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

### Configure OAuth2ClientCredentials Business Rules Destination (Service Instance)

Ignore this step if there is already a destination using Business Rules service instance created.

Create new Destination to call Business Rules Service APIs using a service route from SAP UI5 Component.

- Click New Destination.
- Select **Service Instance** as Destination Configuration.
- Select Service Instance as BusinessRules.
- Enter Name as BusinessRules\_CFLP and click Next button.

Destination Configuration Blank Template Service Instance

Service Instance: \* BusinessRules

Name: \* BusinessRules\_CFLP

Description: Rules destination from SAP UI5 API calls using routes

Next Cancel

- Click **Save** button.

Destination Configuration

Name: \* BusinessRules\_CFLP

Type: HTTP

Description: Rules destination from SAP UI5 API calls using ...

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

Proxy Type: Internet

Authentication: OAuth2ClientCredentials

Client ID: \*

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

Token Service URL: \*

Token Service User:

Token Service Password:

Additional Properties

endpoints	{"rule_repository_url":...	
html5-apps-r...	{"app_host_id": "cbd0c...	
saasregistrye...	true	
sap.cloud.se...	com.sap.bpm.rule	

Use default JDK truststore

Save Cancel

### Configure OAuth2ClientCredentials Workflow Destination (Service Instance)

Ignore this step if there is already a destination using Workflow service instance created. 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 a Destination to SAP S/4HANA Cloud system

Create a destination to connect to either SAP S/4HANA or SAP S/4HANA Cloud system. For example, in this case you see the destination to connect to SAP S/4HANA Cloud system.

Configure a destination with the name as "S4HANA", with Type as HTTP, Proxy Type as Internet, URL as hostname of your SAP S/4HANA Cloud tenant, and authentication as BasicAuthentication. Please refer how to [create an HTTP](#)

[destination](#)

### Destination Configuration

Name: *	S4HANA
Type:	HTTP
Description:	S/4 HANA Cloud tenant for LP content
URL: *	https://[redacted]api.s4hana.ondemand.com
Proxy Type:	Internet
Authentication:	BasicAuthentication
User: *	[redacted]
Password:	*****

---

## Configure Identity Authentication Service Destination

Configure [Identity Authentication](#) destination with the following parameters to call [SCIM REST APIs](#).

Name	SCIM
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication
URL	https://<IAS ID>.accounts.ondemand.com tenant
User	
Password	

To obtain User and Password values please follow [how to add system administrator](#)

## Create and Configure the Core Data Services to populate the Value Helps

The Custom Task UIs based on SAP UI5 uses a couple of backend services to populate the value helps for Business Partners Roles and Country/Region information and Bank information.

Country Value Help URL –

{S4HANA\_Dest}/sap/opu/odata/sap/YY1\_BPCountry\_CDS/YY1\_BPCountry

Business Role Value Help URL –

{S4HANA\_Dest}/sap/opu/odata/sap/YY1\_BPROLE\_CDS/YY1\_BPRole

Bank Data Value Help URL –

{S4HANA\_Dest}/sap/opu/odata/sap/API\_BANKDETAIL\_SRV/A\_BankDetail

Create the necessary Custom CDS Views in your SAP S/4HANA Cloud system in order to use the Live

Process Package. Refer to the **Appendix** for more details.

## Setup SAPUI5 Application

### SAPUI5 Application

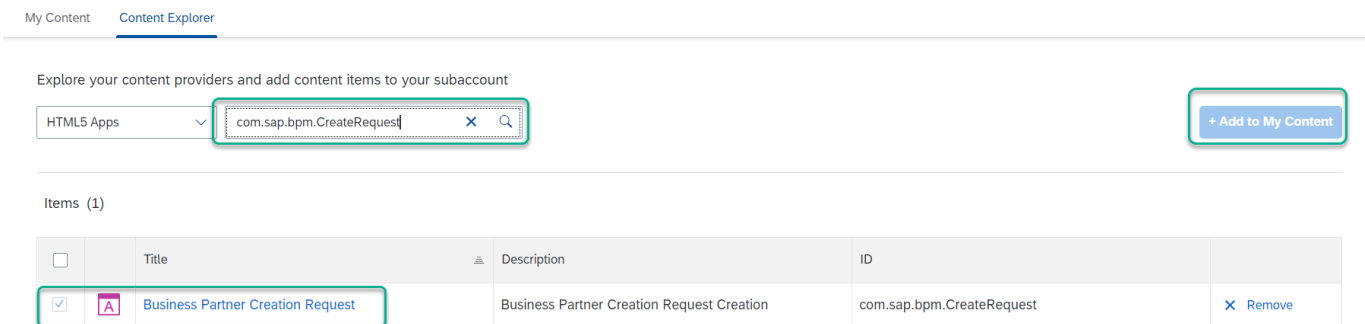
While importing the content, an SAPUI5 application is automatically deployed in your BTP tenant. If you want to enhance the template application, please refer to chapter [Making Custom changes](#).

### 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.

Perform the following steps to add the Business Partner Creation app as a tile in the launchpad site:

- Open SAP Launchpad site manager application.
- Select Content Manager
- Go to Content Explorer tab
- Under the HTML5 Apps, search for com.sap.bpm.CreateRequest
- Select the app from the result and click 'Add to My Content' button to include the UI5 component



- Select **My Content** tab and Search **Everyone**.
- Click **Everyone** from the result and navigate to the details
- Click the Edit button.
- Search for the app 'Business Partner Creation Request' and click the + button to assign the app to the role.

- Under My Content tab, click **New** button and Select **Group** to create a new group
- Add a **Title** for e.g.: **Business Partner Creation** under **PROPERTIES** tab.
- Search and add the Business Partner Creation Request app
- Click **Save** button. Please refer help documentation to know more about [configuring start UI tile on Central Fiori Launchpad](#).

# Appendix


SAP S/4HANA uses the two letter ISO codes for the countries. When the country field of an address needs to be changed, then the new address must be from the two letter ISO codes list. To make the country field human readable in the UI, the country codes that are supported in SAP S/4HANA will be used. To get the list, we are going to create a Custom CDS View.

## Pre-requisite

You have the necessary tools and rights to create Custom Core Data Service Views . Please refer to the following - [SAP HANA Core Data Services \(CDS\) Reference](#)

## Create Custom CDS View for Country

### Procedure

1. Create a Custom CDS View with the **Name** YY1\_BPCountry and **Label** "BPCountry".
2. Select Scenario "External API"
3. Choose **Add > Add Primary Data Source**.
4. Choose the data source with the name "I\_CountryText" and choose **Add**.
5. Choose **Add > Add Associated Data Source**.
6. Choose the data source with the name "I\_Country" and choose **Add**.
7. Choose **Edit Association Properties** () in the **Actions** column.
8. In **Associated Data Source Fields**, choose "Country". Leave the **Operator** as equal and in **Value** choose "Country".
9. Choose **OK**.
10. Repeat the step 8 to 10 for I\_Language to add the language as an **Associated Data Source**.
11. In **Associated Data Source Fields**, choose Language. Leave the **Operator** as equal and in **Value** choose "Language".
12. Choose **OK**.
13. Choose **Save Draft**.
14. Choose **Field Selection** tab.



- Fields needed to be selected are Country, Language (are already selected since they are key fields) and select the CountryName field in addition.

Selected Fields and Associations (3) Search  Add

Name	Field Type	Alias	Label	Actions
I_CountryText.Country	Key <input type="button" value="v"/>	Country	Country Key	<input type="button" value="i"/> <input type="button" value="x"/>
I_CountryText.Language	Key <input type="button" value="v"/>	Language	Language Key	<input type="button" value="i"/> <input type="button" value="x"/>
I_CountryText.CountryName	Field <input type="button" value="v"/>	CountryName	Long name	<input type="button" value="x"/>

- Choose [Filters](#) tab.
- Choose Edit.
- Choose Fields.
- Choose the LanguageISOCode field from the dropdown.

**i** Note

The field name may vary with the variable name given to the language field in previous steps. This field name is “\_I\_Language\_2.LanguageISOCode” if the defaults are preserved.

- Complete the formula with “=’EN’”.

**i** Note

The complete formula will then look like “\_I\_Language\_2.LanguageISOCode=’EN’”.

- Choose [Apply](#).
- Choose [Save Draft](#) and choose [Preview](#).

**i** Note

You should see in the table the fields Country Key (2 letters ISO Code), Language Key and Long Name of the countries in English.

- Choose [Publish](#).

## Create Custom CDS View for Business Partner Roles

### Procedure

- Access the SAP Fiori launchpad and click the tile “Custom CDS Views”
- Click Create
- Enter Label as BPRole, Name as YY1\_BPRole
- Select Scenario “External API”, click Create
- Add primary data source “I\_BusinessPartnerRole”
- Add elements

Elements (3)						Search
<input type="checkbox"/>	Key	Alias	Type	Path	Label	
<input type="checkbox"/>	<input checked="" type="radio"/>	BusinessPartnerRole	CHAR (6)	I_BusinessPartnerRole.BusinessPartnerRole	BP Role	
<input type="checkbox"/>	<input type="radio"/>	BusinessPartnerRoleShortName	CHAR (25)	I_BusinessPartnerRole._BusinessPartnerRoleText.BusinessPartnerRoleShortName	Role Description	
<input type="checkbox"/>	<input type="radio"/>	LanguageISOCode	CHAR (2)	I_BusinessPartnerRole._BusinessPartnerRoleText._Language.LanguageISOCode	Language Code	

## 7. Add element properties

Element Properties (3)				
Key	Alias	Aggregation	Semantic	Semantic Value
<input checked="" type="checkbox"/>	<b>BusinessPartnerRole</b> BP Role	<input type="text"/>	<input type="text"/>	
	<b>BusinessPartnerRoleShortName</b> Role Description	<input type="text"/>	Text <input type="text"/>	<input checked="" type="radio"/>
	<b>LanguageISOCode</b> Language Code	<input type="text"/>	<input type="text"/>	

## 8. Check and Publish the CDS view

# Configure S/4HANA Cloud

## Setup OData Service based on Custom CDS View

Procedure

### Set up custom communication scenario for CDS views

1. Access the SAP Fiori launchpad.
2. Select Custom Communication Scenarios SAP Fiori tile in the Extensibility catalog.
3. Choose New and enter ID and Description then choose New.
4. Choose Inbound Services tab and choose Add.
5. In the opening dialog, choose the services that were created in the previous steps while creating the Custom CDS view. Note: The service name will be the name of the Custom CDS View followed by “\_CDS”. You can add both the CDS views- for country and business roles as inbound services to single scenario
6. Choose Check and then Publish.

### Create Communication User

1. Access the SAP Fiori launchpad
2. Select the business group “Communication Management”
3. Launch the app “Maintain Communication Users”
4. Click New
5. Enter User Name(e.g. WORKFLOW\_API\_USER), Description
6. Click Propose password
7. Click Create

### Create Communication System

1. Access the SAP Fiori launchpad
2. Select the business group “Communication Management”
3. Launch the app “Communication Systems” and click Create
4. Enter host name which will be the SAP S/4 HANA Cloud system host
5. Enter Business System name
6. In the section “Users for Inbound Communication”, click + icon and choose the user you created above
7. Keep Authentication Method as User Name and Password, click OK
8. Click Save

## Create Communication Arrangement

1. Access the SAP Fiori launchpad
2. Select the business group “Communication Management”
3. Launch the app “Communication Arrangements” and click New
4. Select the custom communication scenario created in the above steps.
5. Enter Arrangement Name and click Create
6. In the Common Data section, choose the communication system created in previous steps
7. In the Inbound Communication section, choose User Name created in above steps
8. Click Save. The communication Arrangement status should change to Active

## Setup API for Banks to enable value help for all banks

### Procedure

1. Access the SAP Fiori launchpad.
2. Go to the [Communication Arrangements](#) app in catalog [Communication Management](#).
3. To create a new communication arrangement, choose [New](#).
4. To create a communication arrangement for Finance – Bank Integration API, select SAP\_COM\_0127.
5. Adapt the [Arrangement Name](#) if required.
6. Choose [Create](#).
7. In the [Common Data](#) section, from the input help, select the [Communication System](#) that was also used during the setup of the other APIs/ CDS- Views (as mentioned above)
8. The technical user is automatically added to the Inbound Communication section.
9. Save your changes.

Check that the communication arrangement has been activated (the status [Active](#) must be visible).

## Setup API for Business Partner to be used in BTP Destination

### Procedure

1. Access the SAP Fiori launchpad.
2. Go to the [Communication Arrangements](#) app in catalog [Communication Management](#).
3. To create a new communication arrangement, choose [New](#).
4. To create a communication arrangement for Business Partner Integration API, select SAP\_COM\_0008.
5. Adapt the [Arrangement Name](#) if required.
6. Choose [Create](#).

7. In the [Common Data](#) section, from the input help, select the [Communication System](#) that was also used during the setup of the other APIs/ CDS- Views. (as mentioned above)
8. The technical user is automatically added to the Inbound Communication section.
9. Save your changes. (The status should change to Active)

# Configure S/4HANA on-premise

## Expose CDS View

Use the standard approach for exposing the CDS views as an OData service in SAP S/4HANA on-premise.

Please refer to the help documentation to [Expose CDS Views as an OData service](#).

## 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](#).

Configure Cloud Connector so that the following paths and all their subpaths are exposed:

*/sap/opu/odata/sap/*

## Modify User Interface source code

1. Download the sources for **Business Partner Creation Approval Process: User Interface** into SAP Business Application Studio
2. Search for occurrences of the CDS view paths:  
*YY1\_BPROLE\_CDS/YY1\_BPRole*  
*YY1\_BPCountry\_CDS/YY1\_BPCountry*
3. Replace the prefix *YY1\_* with *ZZ1\_*
4. Build and deploy the UI application
5. Optionally you can also choose a different BTP destination name:
  - a. In the User Interface project, search for *"destination": "S4HANA"* and replace *S4HANA* with your custom destination name
  - b. Also get the sources for **Business Partner Creation Approval Process: Process** into SAP Business Application Studio
  - c. Replace the destination name in the Service Task **Create Business Partner**
  - d. Build and deploy both the UI application and the Workflow Process

## [Optional] Making Custom Changes

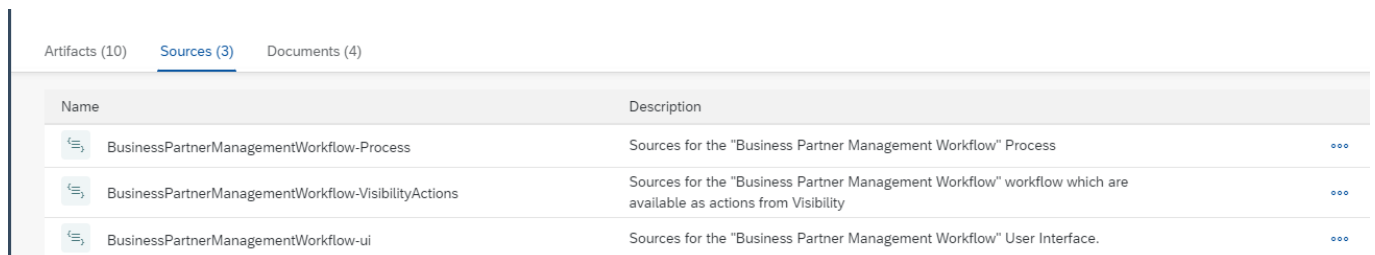
**Prerequisite:** An account with access to SAP Business Application Studio as well as space developer permissions in SAP BTP.

The source code for both the process and the SAPUI5-based user interfaces are available as part of the content package. With this, custom modifications can be implemented to adapt the content for specific needs.

### Making Custom changes in SAP Build Process Automation

- In **Manage Package** app, select **Sources** tab
- Select the archive you want to download in the list on the left side
- Click on the blue filename behind **File (tar, zip)** to download the attached source archive
- Import the archive into SAP Business Application Studio
- Make any necessary modifications
- Build and deploy the MTA archive, using the space developer credentials

### Making Custom changes in SAP Build Process Automation



The screenshot shows the 'Sources' tab in the SAP Build Process Automation interface. At the top, there are three tabs: 'Artifacts (10)', 'Sources (3)', and 'Documents (4)'. The 'Sources (3)' tab is active. Below the tabs is a table with two columns: 'Name' and 'Description'. Each row in the table has a small icon on the left and three dots on the right. The table contains three entries:

Name	Description
BusinessPartnerManagementWorkflow-Process	Sources for the "Business Partner Management Workflow" Process
BusinessPartnerManagementWorkflow-VisibilityActions	Sources for the "Business Partner Management Workflow" workflow which are available as actions from Visibility
BusinessPartnerManagementWorkflow-ui	Sources for the "Business Partner Management Workflow" User Interface.

- in **Application Lobby**, search the package name and select **Sources** tab
- select the archive you want to download in the list
- Click options icon (...) to download the attached source archive
- Import the archive into SAP Business Application Studio
- make any necessary modifications
- Build and deploy the MTA archive, using the space developer credentials

Please refer to the documentation for [SAP Business Application Studio](#), the documentation for [Modeling a Workflow](#) and the documentation for [Creating User Interfaces](#) for details.