

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Business Partner Creation Approval Process using
SAP Workflow Management

Table of Contents

Table of Contents	2
Overview	3
Required SAP Business Technology Platform Services	5
Setup and Configuration	6
Configure Workflow Email Destination	6
Configure OAuth2ClientCredentials Workflow Destination	6
Configure OAuth2UserTokenExchange Workflow Destination	6
Configure OAuth2ClientCredentials Business Rules Destination	7
Configure OAuth2ClientCredentials Business Rules Destination (Service Instance)	7
Configure OAuth2ClientCredentials Workflow Destination (Service Instance)	8
Configure a Destination to SAP S/4HANA Cloud system	9
Create and Configure the Core Data Services to populate the Value Helps	9
Setup SAPUI5 Application	9
Import SAPUI5 Application	9
Configure SAP Central Fiori Launchpad Site	10
Limitations	12
Appendix	13
Pre-requisite	13
Create Custom CDS View for Country	13
Procedure	13
Create Custom CDS View for Business Partner Roles	14
Procedure	14
Setup OData Service based on Custom CDS View	15
Procedure	15
Set up custom communication scenario for CDS views	15
Create Communication User	15
Create Communication System	16
Create Communication Arrangement	16
Setup API for Banks to enable value help for all banks	16
Procedure	16
Setup API for Business Partner to be used in BTP Destination	17
Procedure	17

Overview

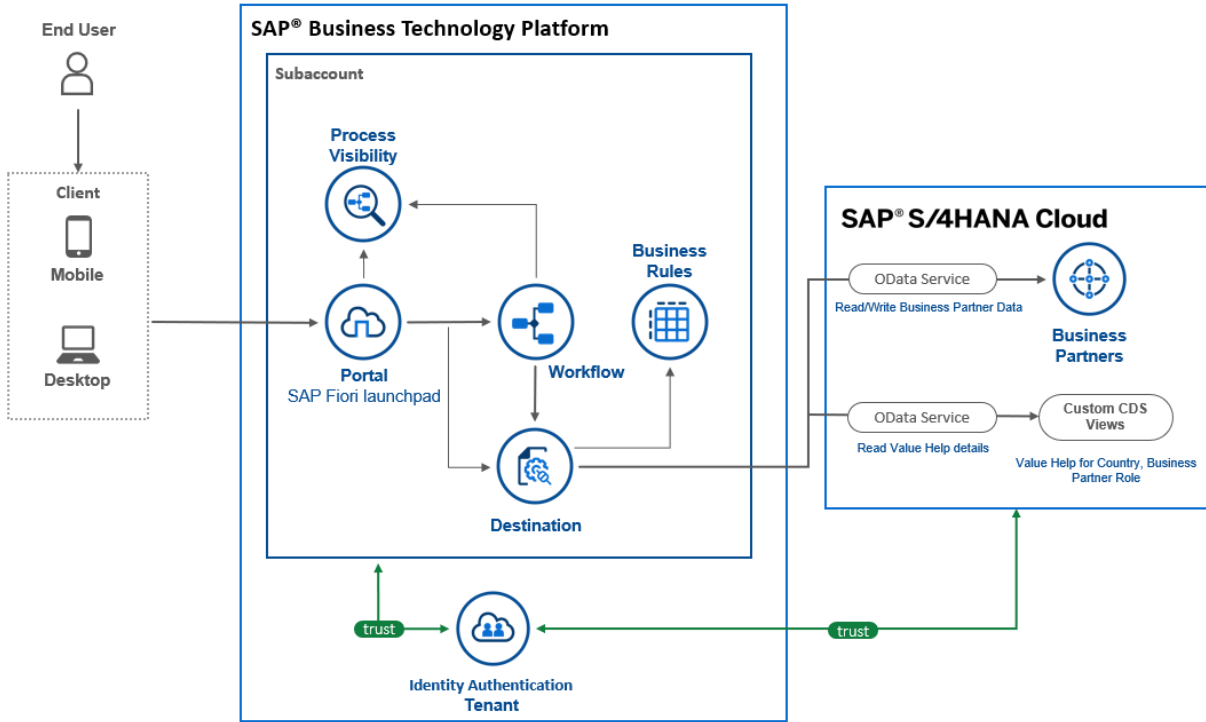
This document provides information about configuration steps to consume the live process package **Business Partner Creation Approval Process**. The primary audience of this document is technical IT / system administrators.

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 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

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
- 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 Workflow Management subscription or a CPEA contract. Follow the [setup and configuration section](#) of SAP Workflow Management.

Configure Workflow Email Destination

Configure workflow email destination. For more information on configuring destination, see [configure workflow email destination](#).

Configure OAuth2ClientCredentials Workflow Destination

Configure a destination with the following parameters:

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
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 the following parameters:

Name: * BusinessRules

Type: HTTP

Description:

URL: * https://bpmruleruntime. [redacted] .com/rules-ser...

Proxy Type: Internet

Authentication: OAuth2ClientCredentials

Client ID: * sb-clone-d8 [redacted] 4|bpmrulebr...

Client Secret: *

Token Service URL: * https://bpm- [redacted] and.com/oauth/t...

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

Configure a destination with the name as "S4HANA_Cloud", with Type as HTTP, Proxy Type as Internet, URL as hostname of your S/4HANA Cloud tenant, and authentication as BasicAuthentication. Please refer how to [create an HTTP destination](#)

Name: *	S4HANA_Cloud
Type:	HTTP
Description:	
URL: *	https://my[redacted]and.com
Proxy Type:	Internet
Authentication:	BasicAuthentication
User: *	[redacted]
Password:	*****

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_Cloud}/sap/opu/odata/sap/YY1_BPCountry_CDS/YY1_BPCountry

Business Role Value Help URL –

{S4HANA_Cloud}/sap/opu/odata/sap/YY1_BPROLE_CDS/YY1_BPRole

Bank Data Value Help URL –

{S4HANA_Cloud}/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

Import SAPUI5 Application

The **Business Partner Creation Approval Process** content package requires a SAPUI5 application to initiate the creation request, to enrich the address and finance data, to approve and review the request. You can download the source code of the SAPUI5 applications from the [SAP Samples](#)

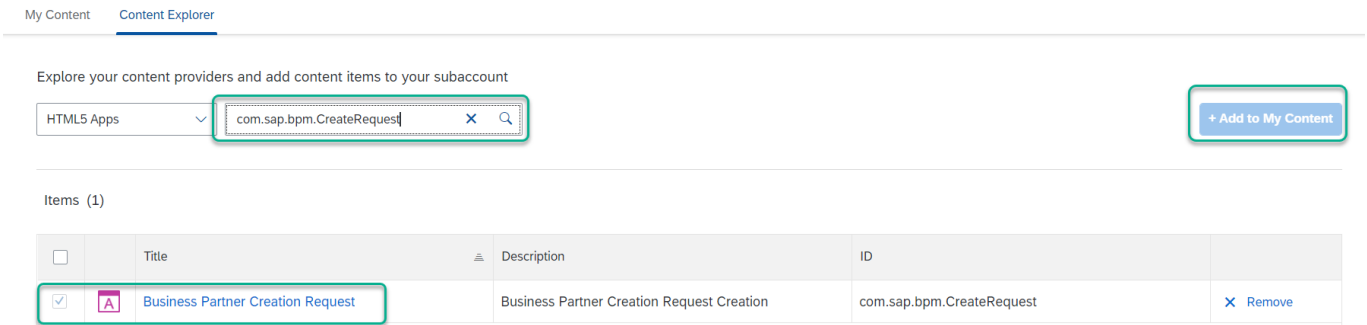
[GitHub](#). Follow the instruction as maintained in the GitHub to import the SAPUI5 app into the SAP Business Technology Platform account using SAP Web IDE or SAP Business Application Studio.

Configure SAP Central Fiori Launchpad Site

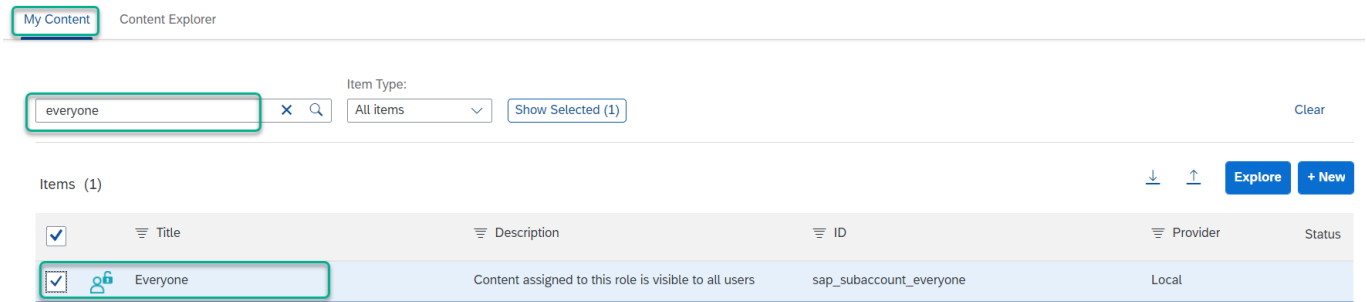
If you plan to use SAP Launchpad service, then configure [SAP Central Fiori Launchpad Site with Workflow Applications](#) using help documentation.

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.

General

Title: *
Everyone

D ⓘ
sap_subaccount_everyone

Additional Info

Created:
Jan 7, 2021, 7:23:29 PM

Created By:
technicalUser

Assign Items:

Business Partner

Results (1/1)

Business Partner Creation Request
HTML5 Apps

- Under My Content tab, click **New** button and Select **Group** to create a new group

SAP Site Manager - Content Manager

My Content Content Explorer

Search in title, description, ID

Item Type: All items Show Selected Clear

Items (37) Explore + New

	Title	Description	ID	Provider
<input type="checkbox"/>	Accounting Vendor	Task UI of accounting vendor	61244ba8-cf0f-4337-ad9e-f7...	Local
<input type="checkbox"/>	AccountingVendor	App Description	com.sap.AccountingVendor	HTML5 Apps
<input type="checkbox"/>	Configure Visibility Scenarios		sap.pv.configurescenarios	HTML5 Apps

App Catalog Group Role

- Add a **Title** for e.g.: **Business Partner Creation** under **PROPERTIES** tab.
- Search and add the **Business Partner Creation Request** app

GROUP Business Partner Creation

Save Cancel

PROPERTIES TRANSLATION

General

Title: *
Business Partner Creation

Description:
Business Partner Creation in S/4

ID:
2ed4f708-1230-437e-afd3-267051e42b69

Additional Info

Created:
Created By:
Last Modified:
Last Modified By:

Assignments

Assign Items:

+ Search for items to assign

Results (1/1)

Business Partner Creation Request
HTML5 Apps

- Click **Save** button. Please refer help documentation to know more about [configuring start UI tile on Central Fiori Launchpad](#).

Limitations

This template has been designed to work out-of-the box for roles MKK and BUP001. Adaptions might be needed for other roles.

- If you create a business partner of category "Person", you can select the Business Partner Role as BUP001 (Contact Person) or Business Partner Role as MKK (Contract Partner)
- If you create a business partner of category "Organization", you can select the Business Partner Role as MKK (Contract Partner)

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"/>	BusinessPartnerRole BP Role	<input type="text"/>	<input type="text"/>	
	BusinessPartnerRoleShortName Role Description	<input type="text"/>	Text <input type="text"/>	<input checked="" type="radio"/>
	LanguageISOCode Language Code	<input type="text"/>	<input type="text"/>	

8. Check and Publish the CDS view

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)