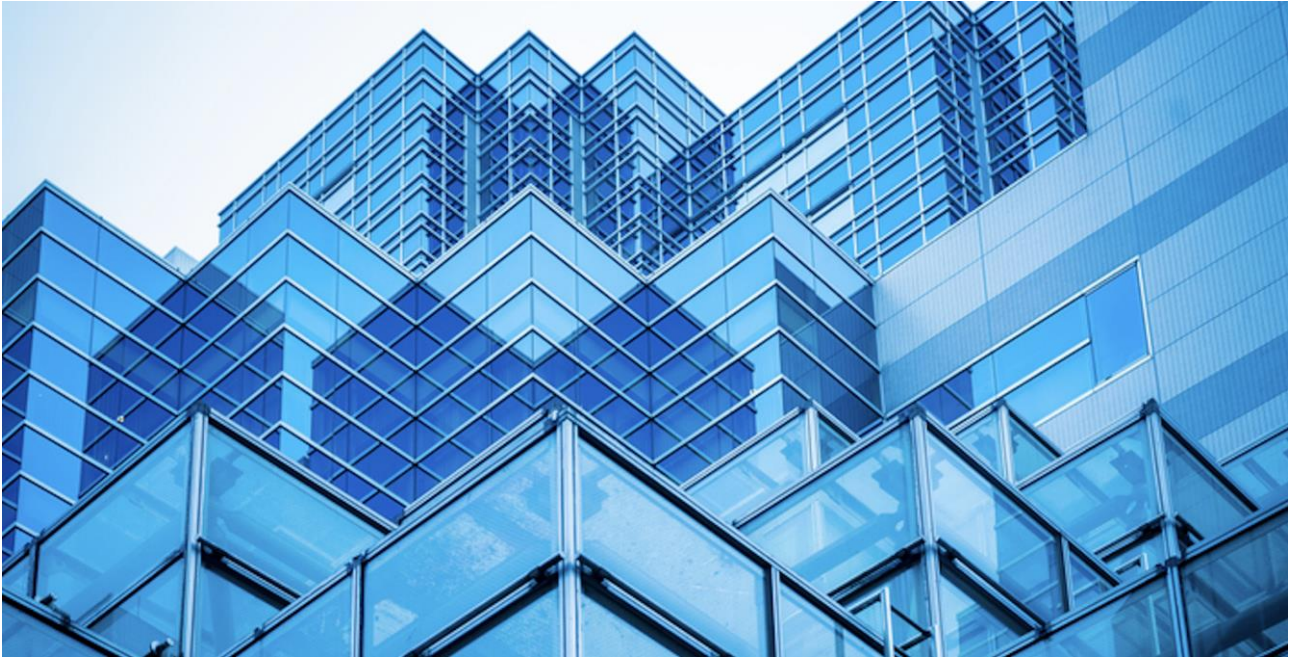




PUBLIC

SAP Build Process Automation

Business Partner Payment Data Change Process Configuration and User Guide

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This document contains 3 sections. Each section covers different information about this template content package.

1. **Overview:** In this section, you will get quick overview of the use case, what are high-level components used and how the template works in nutshell. Prerequisite section provides information of different services of SAP Business Technology Platform that are required to use this template.
2. **Configuration Guide:** It contains sections which will guide you to setup your (a) SAP Business Technology Platform Account with destination, cloud connector, user roles etc., (b) SAPUI5 application via SAP Business Application Studio and (c) Import and configure the template using SAP Build Process Automation design studio and (d) SAP Work Zone to access the My Inbox or Task Center and other applications.
3. **User Guide:** This section provides details about different artefacts that are used in this template like process definition, decision diagram, action project details, forms, email notifications etc. to better understand how different capabilities are used in this template.

Note:

- Learning contents are published only for demo and reference purposes. We do not provide any support to learning / sample content.
- This documentation is not a detailed guide to setup SAP Business Technology Platform services. It assumes that IT admin who is setting the content is skilled with SAP Business Technology Platform environment. **Configuration section must be followed.**
- This template content is to accelerate your solution development. You must modify this template according to your requirements to achieve the desired business goal. To use this template content, you need to have basic knowledge and understanding of SAP Build Process Automation, SAP Integration Suite, and its capabilities.

Overview

This document provides technical information about what needs to be configured to make the package - Business Partner Payment Data Change Approval run. The main audience of this document are technical personas like IT Administrators or Developers. The document tells what needs to be done to make the solution run. It mainly focusses on technical configuration like destinations for example.

It also focusses on business configuration that can be done by a key user or Business Process Expert, like how to configure a variant, a decision or visibility scenario.

The package enables customers to accelerate the digitalization of their business partner payment data change approvals in a transparent way and provide flexibility to meet business requirements. It includes processes, decisions and visibility content enabling customers utilize the package.

Payment information of business partners is maintained and used for automated payment runs at the end of the month. Since the pay-outs are fully automated, they could potentially be used for fraud by changing the bank information on a business partner to a different bank account. To prevent any misuse, the process is used to ensure a four-eye principle by enabling an approval process for every payment data change.

This content package can be used with both SAP S/4HANA Cloud Private Edition (2023 onwards) and S/4HANA Cloud Public Edition (2502 onwards)

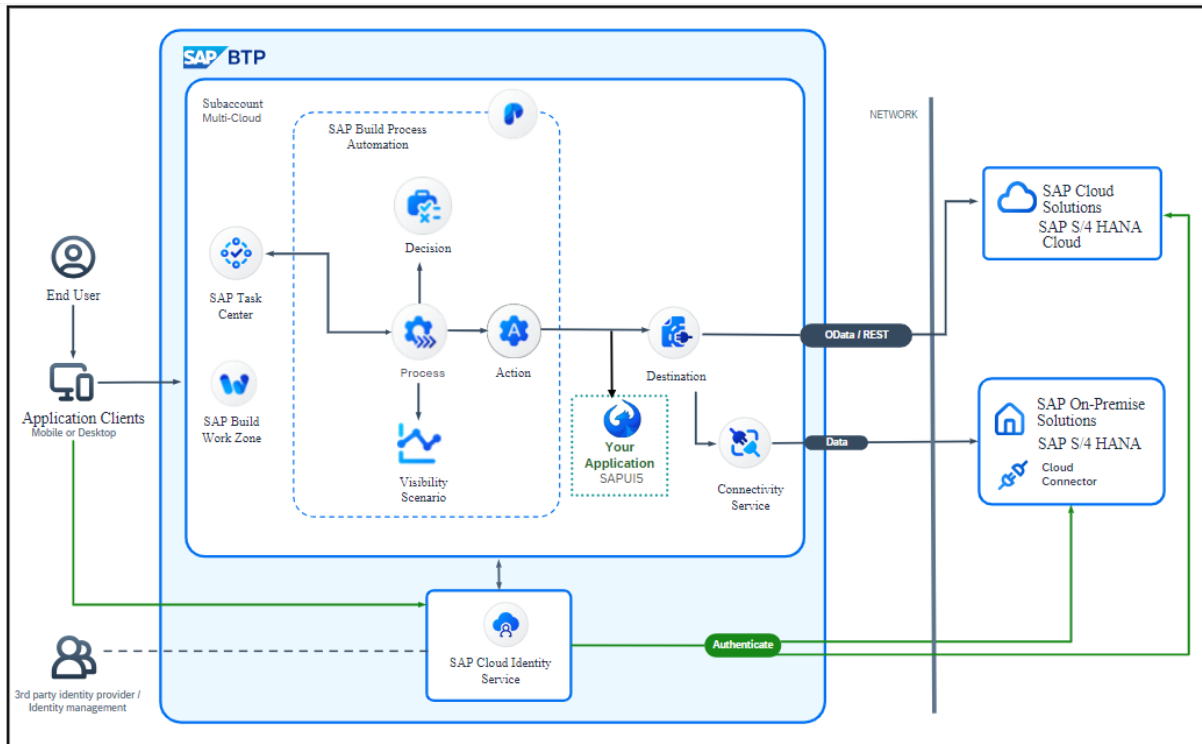
Features:

- This package enables customers to accelerate the digitalization of their business partner payment data change approvals in a transparent way and provide flexibility to meet business requirements.
- Includes automation for assimilating all banking data, set country of business partner and

transform string to timestamp.

- Status of the request will be sent to the requestor via email with successful data update.

Process Flow Diagram



Solution flow :

1. The process retrieves the existing payment details and of the business partner bank data using the business partner number.
2. Process will assign task to requestor to modify existing business partner bank details if needed
3. Automation will set the country of business partner from address details
4. An approval is triggered based on a decision that determines the approvers to approve the changes.
5. Once the changes are approved, the business partner data is posted to SAP S/4HANA

Note: The process can be triggered via a Start UI or an API trigger. In this package the process is triggered using payload. Start UI is out of the scope of this package.

Required SAP Business Technology Platform Services

The following SAP Business Technology Platform services are required to consume the **Business Partner Payment Data Change Process**:

- SAP Build Process Automation
- SAP Connectivity service
- SAP Business Application Studio
- SAP Application Runtime Service
- SAP Work Zone, standard or advanced

- SAP Cloud Identity Services - Identity Authentication (optional)

Prerequisites

For this template to run successfully the following other prerequisites are needed

- SAP Desktop Agent 3.28 or higher.

Configuration Guide

Business Partner Payment Data Change Process template requires SAP Build Process Automation subscription. Follow the [setup and configuration section](#).

Setup SAP S/4HANA

Setup Communication

To run this template, you must have a communication user, create communication arrangements between the communication user and the following communication scenarios, and assign those communication arrangements to a communication system.

Steps to create communication system and communication arrangement are available in below documentation links:

[How to Create Communication Systems | SAP Help Portal](#)

[How to Create a Communication Arrangement | SAP Help Portal](#)

[Configuration and Role Details for accessing "Communication Systems" application.](#)

[Configuration and Role Details for accessing "Communication Arrangements" application](#)

List of communication scenarios to be configured.

Communication Scenario	Related API
Business Partner (A2X)	Overview Business Partner (A2X) SAP Business Accelerator Hub
Bank - Read	Overview Bank - Read SAP Business Accelerator Hub

Setup Business Technology Platform Cockpit

Configure SAP S/4HANA Destination

This content package can be used with both SAP S/4HANA Cloud Private Edition (2023 onwards) and S/4HANA Cloud Public Edition (2502 onwards). Please create destinations accordingly.

Destination Property	Value
Name	<Name>
Type	HTTP

URL	<SAP S/4HANA endpoint> Example: https://<s4system-name>-api.xxxxxxxx
Proxy Type Internet	Internet
Authentication	Basic Authentication
Username	<Username> of the SAP S/4HANA Communication User
Password	<Password> of the SAP S/4HANA Communication User

Configure SAP Build Process Automation Email Destination

Mail notifications are used in this template to send notifications to requestor, approver, and admin during different stages of the process. Follow the instructions to setup mail destination in your SAP Business Technology Platform Account.

Configuring destination, [Configure Mail Destination](#)

- For more information refer to Create [HTTP Destinations](#) and [OAuth User Token Exchange Authentication](#).

User Roles Configuration

Role Collection Name	Purpose
TaskCenterAdmin	Permission to execute calls to the connector status API and monitor configured destinations and running background jobs.
Process Automation Developer	Standard Business User, can model and publish processes
ProcessAutomationParticipant	To execute (like accessing MyInbox, running the automations, etc.) this content package, you need to have this role assigned to the respective user.
ProcessAutomationAdmin	To perform process admin activities like accessing monitoring applications etc., you need to have this role assigned to the respective user.
Business_Application_Studio_Administrator	Allows administrators to manage (export and delete) user data.
Business_Application_Studio_Developer	Allows developers to load and develop applications using SAP Business Application Studio.

For more information about SAP Build Process Automation roles, see [Authorizations](#).

Cloud Connector Configuration

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](#).

Services/Resources that need to be exposed from SAP S/4HANA on-premises using Cloud Connector.

Resources	Protocol	Backend-Type
/sap/opu/odata/sap/API_BUSINESS_PARTNER	OData	S/4HANA
/sap/opu/odata/sap/YY1_COUNTRIES_ISO_CDS/YY1_COUNTRIES_ISO	OData	S/4HANA
/sap/opu/odata/sap/API_BANKDETAIL_SRV/A_BankDetail	OData	S/4HANA

Setup Content Package

Import SAP Build Process Automation content

Standard automation packages released by SAP will be available at the [SAP Build Process Automation Store](#)

This template can be downloaded from the Store:

1. Navigate to the Store in your SAP Build Process Automation account.
2. Select the Project Type filter as “process automation.”
3. In the Search bar type “**Business Partner Payment Data Change Approval**”
4. Select the “Create from Template” button to add the template into your lobby.
5. After successfully adding the template, navigate back to the lobby to find the “**Business Partner Payment Data Change Approval**” template available for use.

Caution: Be sure to select the **Project Type** as “**Process Automation**” in the filters.

Import and deploy SAPUI5 application

The content package requires the SAP UI5 user interface which is available in Business Partner Data Change Process content package. There are two UI5 interfaces:

- comsaplpapproveChangeRequest
- comsaplpchangeRequestData

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

- Download the SAPUI5 application comsaplpapproveChangeRequest and comsaplpchangeRequestData from the imported store project.
- Open Business Application Studio and import the previously downloaded SAPUI5 project.
- Ensure that the SAP Build Process Automation instance exists. The same instance name need to be updated in the mta.yaml file available in the SAP UI5 application project as shown below on line 88.

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

- 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.

Configuration & Modification

Once you have added the content to your lobby, you will find the project in your project list. Configure the content template based on your requirements as instructed below and then release and deploy from the Lobby.

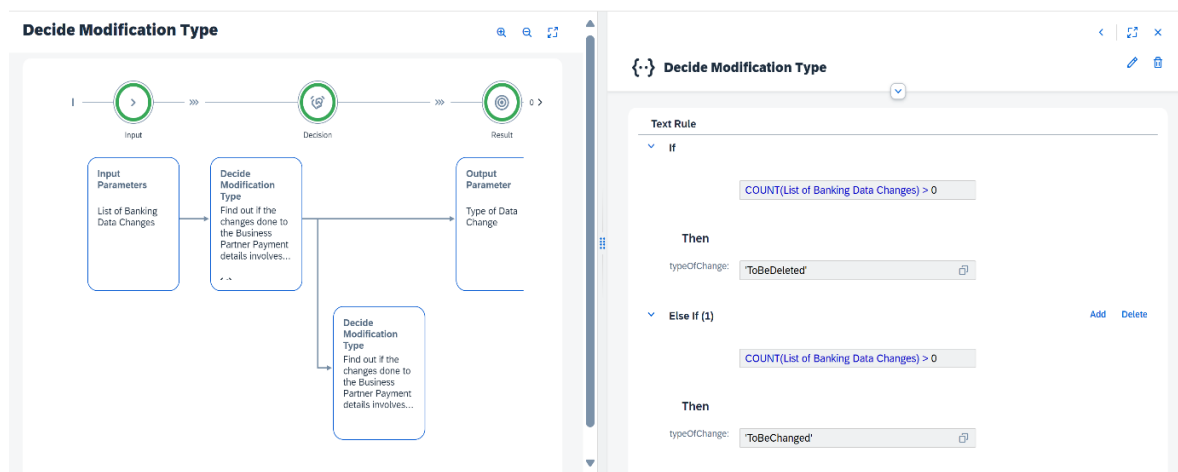
Configure Decisions

There are 2 decisions in this template which can be configured as required.

1. Decide Modification Type

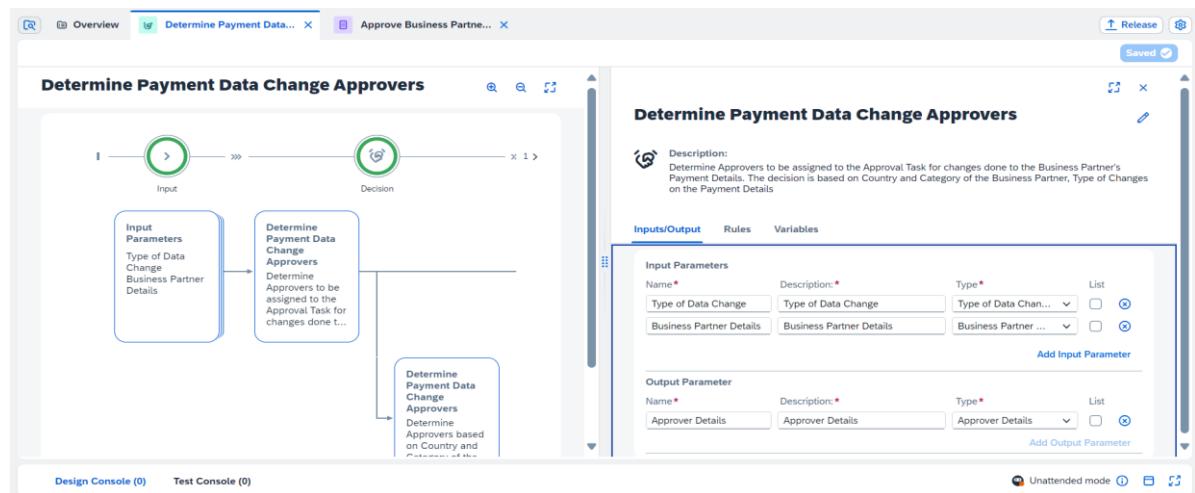
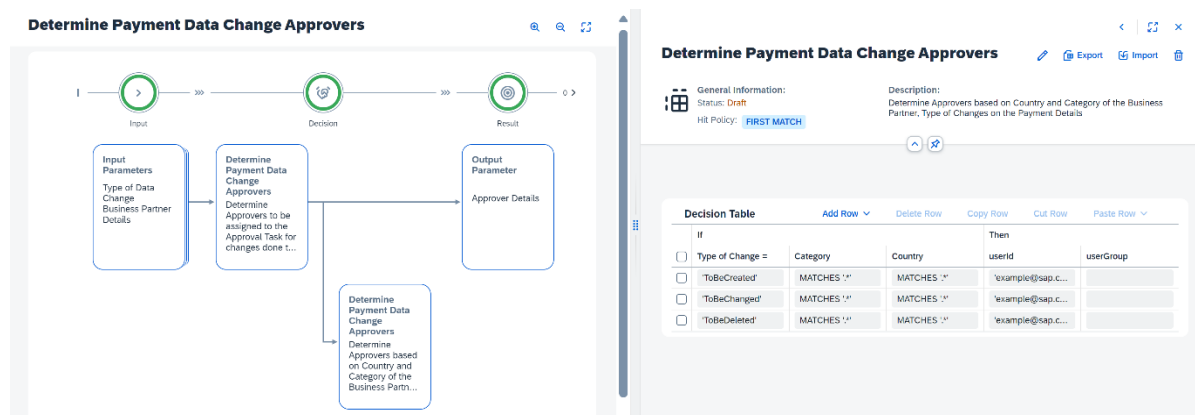
This decision is used to find out if the changes done to the Business Partner Payment details involves any deletions, creations or updates. To modify the decision:

- In process editor, double click to open the decision.
- Select the rule from the decision diagram.
- Edit the rule to add more rows or update existing values.



2. Determine Payment Data Change Approvers

This decision used to determine the approvers to be assigned to the Approval Task for changes done to the Business Partner's Payment Details. The decision is based on country and category of the Business Partner, type of changes on the payment details.

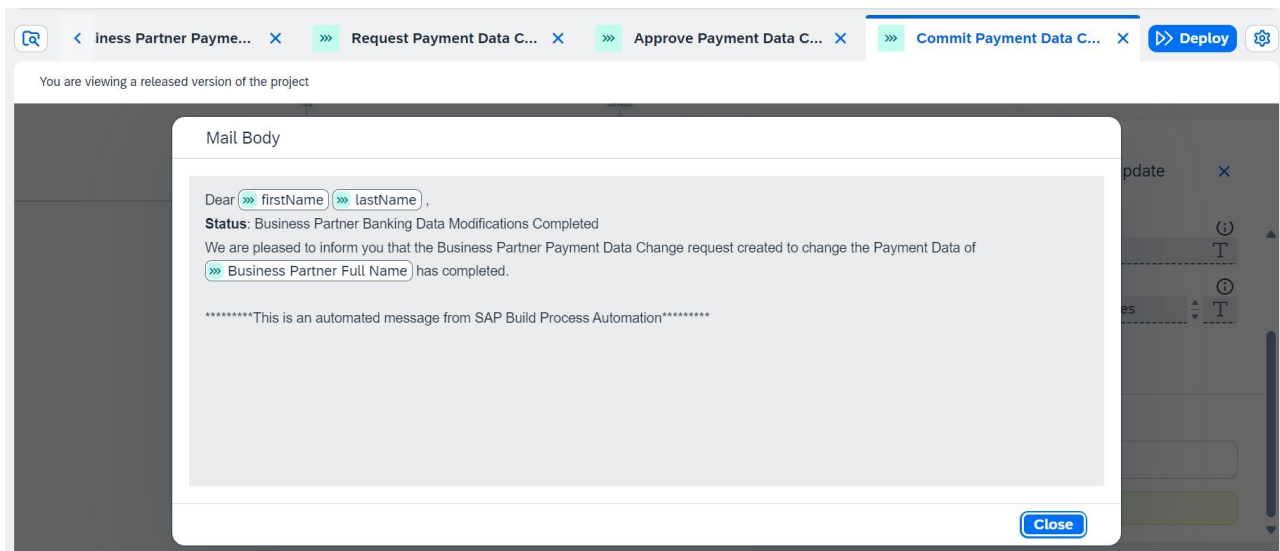


Configure Email

Email notifications are sent to requestor and approver at different places during process and task execution. All the email artefacts in the process have default template body which can be changed.

To update the email body content, do the following:

- Select the mail artefact in the process.
- From the **Settings** in the right-side panel, check the **Mail Header** to confirm the **To** field (or email recipients) and the **Subject**. You can adjust the subject and recipient, if needed.
- You may also add someone in **CC**.
- Click to Open **'Mail Body Editor'**.



- The mail editor allows you to write and adjust text according to your needs. You can also reuse information that has been collected during the process. If you want to use additional process context data, you can simply drag the fields from the left menu to the editor on the right.

For more information on email configuration and text, refer to this [link](#)

In case any further extension needs to be made then follow the reference links below.

Create & Configure Process

[Create a Business Process | SAP Help Portal](#)

Create & Configure Forms

[Create a Form | SAP Help Portal](#)

Create & Configure Automation

[Create an Automation | SAP Help Portal](#)

Create & Configure Decision

[Create a Decision | SAP Help Portal](#)

Create & Configure Process Visibility Scenario

[Create a Visibility Scenario | SAP Help Portal](#)

Release and Deploy the Process

After configuring your process, it's time to publish, test and run it. To run a process, you must first release and deploy it.

Release - This locks the version of your process, meaning that no further edits can be made to that version.

At this stage, the process can't be run and isn't available to participants yet.

To release a version of your process:

- First ensure that the status is listed as 'Editable'.
- Then click 'Release'.

For more information please visit : <https://help.sap.com/docs/build-process-automation/sap-build-process-automation/releasing-project>

Note: If this is the first time you've released the process, a version labelled 1.0.0 is released. For subsequent releases, you're prompted to select a version type before the process is released.

Import Destination

Actual destinations that are created in SAP BTP cockpit will be required when you deploy the process. This destination will be mapped to the destination environment variables during deployment.

To configure destination,

- click on **Control Tower**.
- Select **Destinations** from the right panel.
- Click **Add**

Select the destinations created in the setup section to be added.

For more information and screen shots, please refer to the below link: [Manage Destinations](#)

Deploy – This takes a released version of a process and enables it to be actively run and monitored. A deployed version of this approval process unlocks the request form, allowing participants to submit requests and the approvers to view items in their inbox.

To deploy a released version of your process,

- First ensure that the status is listed as 'Released'.
- Then click '**Deploy**'.

For more information and screen shots, please refer to the below link: [Deploy Project](#)

To deploy your project, you will be prompted to provide a destination as an environment variable. Select the destination from the drop-down and fill other environment variables as well.

- **S4HANA:** Business Technology Platform destination to connect with SAP S/4HANA system.

Note: If you do not map your destination environment variable with actual SAP Business Technology Platform destination during deployment, then the process will enter erroneous state when it tries to connect to the external system.

User Guides

Capabilities

The following are the capabilities of this template:

For detailed information about different artifacts, please refer [help documentation](#)

Type	Name	Description
Automation	Assimilate all Banking Data	Implements an automation system that combines changed banking data and current banking data to ensure seamless and accurate financial records.
Automation	Set Country of Business Partner	Automate the extraction and mapping of country information from address details to accurately set the country of business partner from address details
Automation	Transform String to Timestamp	Automation to transform string to timestamp for Validity Start Date and Validity End Date standardized and accurate time data processing.
Decision	Decide Modification Type	Implement a decision-making process to determine if modifications have been made to the Business Partner Payment details by comparing current and previous records.
Decision	Determine Payment Data Change Approvers	Determine Approvers to be assigned to the Approval Task for changes done to the Business Partner's Payment Details. The decision is based on Country and Category of the Business Partner, Type of Changes on the Payment Details
Form	Approve Business Partner Change Request	Create a form to approve business partner change requests, including fields for requester details, change specifics, justification, and approval signatures.
Form	Modify Business Partner Bank Details	Design a form for modifying business partner bank details, including fields for business partner information, current bank details, new bank details, reason for change, and authorization signatures.
Process	Approve Payment Data Changes	Incorporate an approval step that requires review and authorization from designated approvers before finalizing changes to business partner payment data.
Process	Business Partner Payment Data Change Process	Approval process for making changes to payment data for business partners in S/4HANA.
Process	Commit Payment Data Changes	Integrate a process to securely write the modified payment data into the S/4HANA system, ensuring data integrity and alignment with system requirements.
Process	Request Payment Data Changes	Process to retrieve BP details and assign a task to the authorized business expert to add/change/delete the Bank Details associated with the business partner.

Process	Rework Payment Data Changes	Establish a rework step for changes to the Business Partner, allowing for corrections or revisions before final approval and implementation.
Data type	Approver Details	Data type for authorized approver who will approve the changed business partner data
Data type	Assignee Details	Data type for assignee details who modifies business partner data
Data type	Business Partner Banking Details	Data type for business partner banking details
Data type	Business Partner Details	Data type for business partner details such as category and country used for decisions
Data type	Business Partner Payment Data Change Input Details	Data type for business partner, assignee and requester details used to trigger the business partner payment data change process
Data type	Requester Details	Data type for requester details who initiated the business partner payment data change process
Data type	Type of Data Change	Data type for type of data change whether bank item should be created, changed or deleted.

Actions

Business Partner Payment Data Change Action

This action enables you to retrieve business partner address data, bank data, business partner number, create new business partner bank data, delete business partner bank data, update business partner bank data.

Method	Path	API name	Purpose
POST	/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartnerBank	API_BUSINESS_PARTNER	Integrates and updates bank information for a business partner directly into their existing profile.
DELETE	/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartnerBank(BusinessPartner='{BusinessPartner}',BankIdentification='{BankIdentification}')	API_BUSINESS_PARTNER	Removes the bank details from a business partner's record using their unique business partner number and bank identification.
GET	/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner('{BusinessPartner}')/to_BusinessPartnerAddress	API_BUSINESS_PARTNER	Extracts address information for all business partner records stored in the system.
GET	/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner('	API_BUSINESS_PARTNER	Fetches bank information for all business partner

	{BusinessPartner}')/to_BusinessPartnerBank		records available in the system.
GET	/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner('{BusinessPartner}')	API_BUSINESS_PARTNER	Fetches general data fields of a business partner record using their unique business partner number.
PATCH	/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartnerBank(BusinessPartner='{BusinessPartner}',BankIdentification='{BankIdentification}')	API_BUSINESS_PARTNER	Modifies the bank information of a business partner record using their unique business partner number and bank identification.

Appendix

Setup Countries CDS-View for Value Help

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.

Create Custom CDS View

Procedure:

1. Create a Custom CDS View with the Name YY1_COUNTRIES_ISO and Label "Countries".
(**Note:** please stick to the naming, since it will be reused in the sample application. If the naming does not match the integration will not work)
2. Choose OData API check box.
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".Choose OK.
9. Repeat the step 8 to 10 for "I_Language" to add the language as an Associated Data Source.
10. In Associated Data Source Fields, choose Language. Leave the Operator as equal and in Value choose "Language".Choose OK.
11. Choose Save Draft.
12. Choose Field Selection tab.
13. Fields needed to be selected are Country, Language (are already selected since they are key fields)
14. and select the CountryName field in addition.

15. Choose Filters tab.
16. Choose Edit.
17. Choose Fields.
18. Choose the LanguageISOCode field from the dropdown.
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.
19. Complete the formula with “=’EN’”.
Note: The complete formula will then look like “_I_Language_2.LanguageISOCode=’EN’”. Choose Apply.
20. Choose Save Draft and choose Preview.
Note: You should see in the table the fields Country Key (2 letter ISO Code), Language Key and Long Name of the countries in English.
21. Choose Publish.

Setup OData Service based on Custom CDS View

Set up custom communication scenario for CDS views

1. Access the SAP Fiori launchpad.
2. To launch the Custom Communication Scenarios SAP Fiori app, choose the corresponding SAP Fiori tile in the Extensibility catalog.
3. Choose New and enter a name and description then choose New.
4. Choose Inbound Services tab and choose Add.
5. In the opening dialog, choose the service that was created in the previous step while creating the Custom CDS view. **Note** The service name will be the name of the Custom CDS View followed by “_CDS”.
7. Choose OK.
8. Choose 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 Username (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 Username and Password, click OK
8. Click Save

Create Communication Arrangement

1. Access the SAP Fiori launchpad.

2. To launch the Communication Arrangement SAP Fiori app, choose the corresponding SAP Fiori tile in the Communication Management catalog. Choose New.
3. Choose Scenario field.
4. Choose the custom communication scenario created in the previous step from the dialog.
5. Enter an Arrangement Name.
6. Choose Create.
7. Choose Communication System field value helper to open the dialog and choose the system which you created in the section Create Communication System. **Note:** The Username for Inbound Communication should be automatically filled (e.g. WORKFLOW_API_USER).
8. Choose Save.

Note: In the Inbound Services section, you can see the Service URL / Service Interface.

Setup Bank API Communication Arrangement 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 Business Partner API Communication Arrangement

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)

Support

There is no support available for template content. If you experience general issues with SAP Build Process Automation, please follow the links below:

- [Troubleshoot Support Guided Answer](#)
- [Test an Automation Help portal Article](#)
- [Test an Application Help portal Article](#)
- [Get traces Support Guided Answer](#)

If the issue persists, please raise an incident via SAP Support Portal on **BPI-PA-BPC** component.

This template can be modified using SAP Process Automation. For example: add decisions to determine the approver based on a certain business logic or add an action to post collected information to backend SAP system. Refer [help portal](#) for more details.

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