

PUBLIC

SAP Build Process Automation

Cancel Customer Invoice 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 contain sections which will guide you to setup your (a) SAP Business Technology Platform Account with destination, cloud connector, user roles etc., (b) Integration Content via SAP Integration Suite, (c) SAPUI5 application via SAP Business Application Studio and (d) Import and configure the template using SAP Build Process Automation design studio and (e) 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 - Cancel Customer Invoice approval process content package run. The main audience of this document are technical personas like IT Administrators or Developers.

Cancel Customer Invoice content package for SAP S/4HANA automates Cancel Customer Invoice Approvals in a flexible and transparent approach. It provides flexibility in executing a specific variant of the process depending on attributes such as company code, customer number etc. When a Cancel Customer Invoice is created in SAP S/4HANA and is configured for external approval, a pre-configured process variant is triggered in SAP Workflow Management or SAP Build Process Automation based on configurable business conditions. The Cancel Customer Invoice is performed based on the approvals and validations performed in the process.

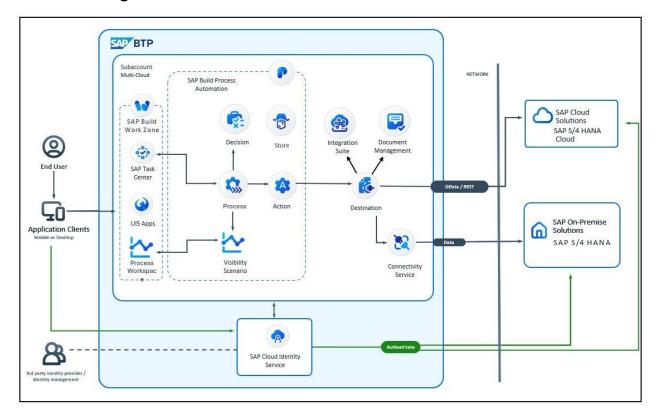
This content package can be used with both SAP S/4HANA Cloud Private Edition (2023 onwards) and S/4HANA Cloud Public Edition (2502 onwards)

Features:

- Decisions provides flexibility in determining approvers
- Automatic email notification to parties involved.
- Out-of-the-box visibility into key process performance indicator



Process Flow Diagram



Solution flow:

- 1. The requestor opens the non-cancelled invoice in the start UI, provides the relevant cancellation reason and triggers the process for approval.
- 2. The invoice is validated against the business condition maintained in decision.
- 3. After successful validation a task is sent to the designated approver for approval.
 - Approve: If approved, the invoice will be cancelled in SAP S/4HANA system, and a notification is sent to the requestor confirming successful cancellation.
 - Reject: If rejected, the invoice will not be cancelled, and the requestor receives a notification with the reason for rejection.

Note:

- The process can be triggered via a Start UI.
- My Inbox Application must be accessed through Work Zone.

Required SAP Business Technology Platform Services

The following SAP Business Technology Platform services are required to consume the **Cancel Customer Invoice**:

- SAP Build Process Automation
- SAP Connectivity service
- SAP Business Application Studio
- SAP Application Runtime Service
- SAP Integration Suite
- SAP Work Zone, standard or advanced
- SAP Cloud Identity Services Identity Authentication (optional)
- SAP Business Technology Platform, Cloud Foundry runtime.



Prerequisites

For this template to run successfully the following prerequisites are needed

- Get Access to BTP Account.
- Need Valid S/4HANA User.
- This template requires Integration package SAP Build Process Automation Integration with SAP S/4 HANA for Cancel Customer Invoice to run. You can download this package separately from the store. The guide to set-up and configure integration package is mentioned along with the integration package itself.

Configuration Guide

Cancel Customer Invoice template requires SAP Build Process Automation subscription and Destination Setup for SAP Build Process Automation. Follow the <u>setup and configuration section</u>.

Setup SAP S/4HANA

Setup Communication

NOTE: This Section is needed only if you are connecting to SAP S/4HANA Cloud, Public Edition.

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
Billing Document - Read, Cancel, GetPDF	Overview Billing Document - Read, Cancel, GetPDF SAP Business Accelerator Hub

Setup Business Technology Platform Cockpit

Configure SAP Build Process Automation Destination

To Access the SAP Build process Automation, you can configure the destination. Please create destination accordingly

Destination Property	Value
Name	sap_process_automation_service
Туре	НТТР
URL	<" endpoints"."api">

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Client ID	<"uaa"."clientid">
Client Secret	<"uaa"."clientsecret">
Token Service URL	<"uaa"."url">/oauth/token
Proxy Type Internet	Internet
Authentication	OAuth2ClientCredentials

Add the property **sap.processautomation.enabled** as **true** to view the destination in the SAP Build Process Automation tenant. Please refer <u>help document</u> for more details.

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). Destinations can be created accordingly.

Destination Property	Value
Name	<name></name>
Туре НТТР	
	<sap 4hana="" endpoint="" s=""></sap>
URL	Example: https:// <s4system-name>-api.xxxxxxxx</s4system-name>
Proxy Type Internet	Internet
Authentication	Basic Authentication
Username	<username> of the SAP S/4HANA Communication User</username>
Password	<password> of the SAP S/4HANA Communication User</password>

Configure SAP Integration Suite Destination

Configure Destination to connect to Integration Suite destination cloud system.

Destination Property	Value	
Name	IntegrationSuite	
Туре	НТТР	
URL	<integration destination="" endpoint="" suite=""></integration>	
	https:// <cpi>.hana.ondemand.com</cpi>	
Proxy Type Internet	Internet	
Authentication	Basic Authentication	
Username	<username> of the SAP S/4HANA Communication User</username>	
Password	<password> of the SAP S/4HANA Communication User</password>	

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 <u>HTTP Destinations</u> and <u>OAuth User Token Exchange</u> Authentication.

User Roles Configuration

To access this template, the business user will need these roles:

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 publis		
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 <u>Authorizations</u>.

Cloud Connector Configuration

For SAP S/4HANA on-premise landscape, configure cloud connector to enable secure tunnel to SAP Business Technology Platform tenant. Please refer the help documentation to <u>configure Cloud Connector</u>.

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

Resources	Protocol	Backend-Type
/sap/opu/odata/sap/API_BILLING_DOCUMENT_SRV/A_BillingDocument	OData	SAP S/4HANA
/sap/opu/odata/sap/API_BILLING_DOCUMENT_SRV/Cancel	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_BILLINGDOCUMENT_CDS/ZZ1_BillingDocument	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_BILLINGTYPE_CDS/ZZ1_BillingType	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_BILLINGDOCUMENTITEM_CDS/ZZ1_Billing DocumentItem	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_SALESORGN_CDS/ZZ1_SalesOrg	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_DISTRIBUTIONCHANNEL_CDS/ZZ1_Distrib utionChannel	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_DIVISION_CDS/ZZ1_Division	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_REGION_CDS/ZZ1_Region	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_COUNTRY_CDS/ZZ1_Country	OData	SAP S/4HANA



/sap/opu/odata/sap/ZZ1_INVOICEDOCUMENT_CDS/ZZ1_InvoiceDo	RFC	SAP S/4HANA
cument		

Setup Content Package

Import SAP Build Process Automation content

Standard automation packages released by SAP will be available at the store. To know more about the store visit 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 "Business Process."
- 3.In the Search bar type "Cancel Customer Invoice"
- 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 "Cancel Customer Invoice" template available for use.

Caution: Be sure to select the **Project Type** as "Business Process" in the filters.

Import and deploy TASK UI application

The content package requires the SAP UI5 user interface which is available in Cancel Customer Invoice Process content package. Below are details of Task UI application

Task UI Application: Customer-Invoice-cancellation-Approval

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

- Download the SAPUI5 application Task UI from the imported store project.
- Open Business Application Studio and import the previously downloaded SAPUI5 project.
- Build SAPUI5 project using mta.yaml file and the generated project (generated mtar file will be available in the mta_archieves folder) file can be deployed.

Configuration & Modification

Once you have added the content to your lobby, you will find the project in your project list. Adapt the content template based on your requirements.

Configure Decisions

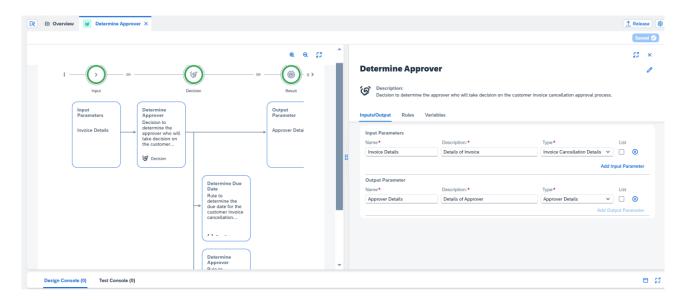
There are 3 decisions in this template. We can configure as required.

1. Determine Approver

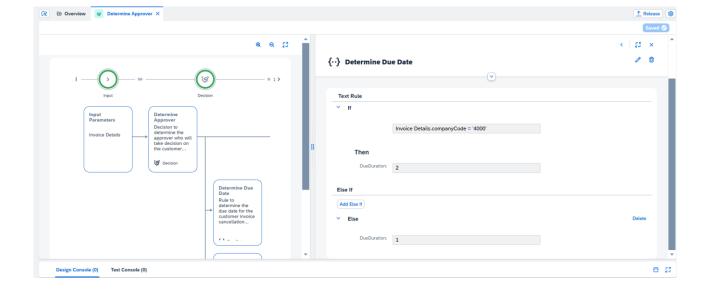
Decision to determine the approver who will take decision on the customer invoice cancellation approval process. To modify the decision:

- In process editor, double click to open the decision.
- Select the rule from the decision diagram.

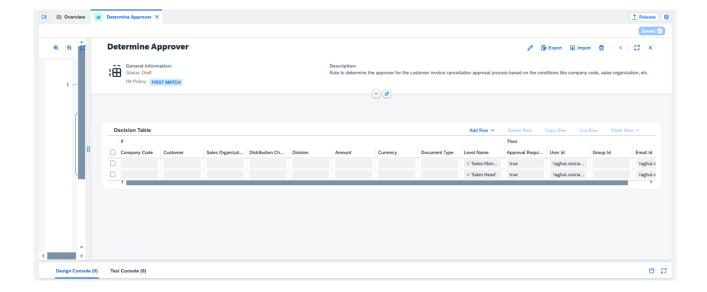




• Edit the rule to add more rows or update existing value.

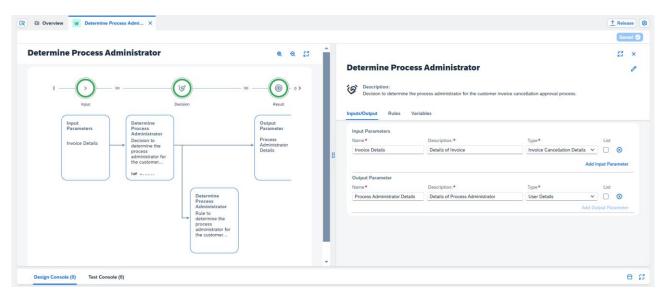






2. Determine Process Administrator

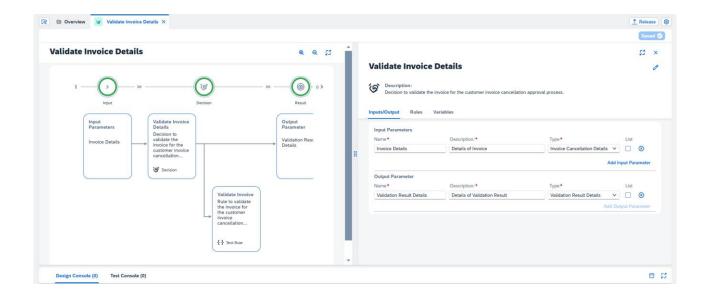
Decision to determine the process administrator for the customer invoice cancellation approval process.



3. Validate Invoice Details

Decision to validate the invoice for the customer invoice cancellation approval process.





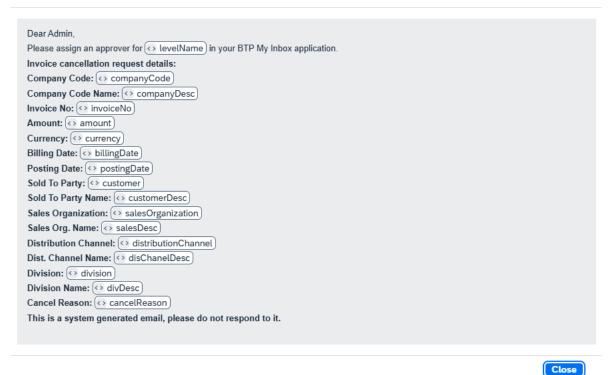
Configure Email

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 modified.

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 <u>link</u>

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

Create Process

Create a Business Process | SAP Help Portal

Create Forms

Create a Form | SAP Help Portal

Create Automation

Create an Automation | SAP Help Portal

Create Decision

Create a Decision | SAP Help Portal

Create 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: SAP Build Process Automation

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.

• IntegrationSuite: Business Technology Platform destination to connect with destination.

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.

Configure and Deploy Start UI

The content package requires the SAP UI5 user interface which is available in **Cancel Customer Invoice** content package. Below are details of Start UI application

Start UI Application: Customer-Invoice-cancellation-ManageInvoice

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

- Download the SAPUI5 application Start UI from the imported store project.
- Open Business Application Studio and import the previously downloaded SAPUI5 project.



- The definition id can be found in the Monitoring section, inside Process and Workflow Definitions. You need to enter the project name and go to the main process. The ID mentioned in the process would be the definition id. Refer determine the workflow definition ID for more details
- This definition id must be updated in Start UI application. It will be maintained either in the i18n file or controller.js file. Please refer below screenshot

```
//Function to Check whether the selected invoice is in declined or rejected state at approval step
checkRunningWFApprovalStep: function (oPayload, taskID) {
             var oController = this;
             var aItemData = oPayload.InvoiceCancellationDetails;
             var businessKey = aItemData.businessKey;
             var sMsgInprocess = oController.getView().getModel("i18n").getResourceBundle().getText("cancelInProcess", [businessKey]);
          var urlEnd = "CalcinitionId suprisuitationed suprisuitation and supris
             var oReturn = {};
             return new Promise(function (resolve, reject) {
                          jQuery.ajax({
                                        url: oController._getWorkflowRuntimeBaseURL() + "/workflow-instances" + urlEnd,
                                        contentType: "application/json",
                                        async: true,
                                        headers: {
                                                     "X-CSRF-Token": "Fetch"
                                        success: function (data) {
```

• Build SAPUI5 project using mta.yaml file and the generated project (generated mtar file will be available in the mta_archieves folder) file can be deployed.

Configure SAP Work Zone

Configure SAP Work Zone to access the start UI for this automation.

Once SAP Work zone is configured, perform the following steps to create the tile for the start UI:

- 1. Open content manager and click on the HTML5 Apps.
- 2. Select the Import Financial Data Start UI from the list of apps and choose Add.
- 3. Add the relevant roles to the user. Cancel Customer Invoice Start UI will be available to the user as a tile in the SAP Work Zone.

If you plan to use SAP Work Zone service, then configure <u>SAP Work Zone with SAP Build Process</u> <u>Automation Applications</u> using help documentation.

User Guides

Capabilities

The following are the capabilities of this template:

For detailed information about different artifacts, please refer help documentation

Туре	Name	Description
Decision	Determine Approver	Decision to determine the approver who will take decision on the customer invoice cancellation approval process.

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Decision	Determine Process Administrator	Decision to determine the process administrator for the customer invoice cancellation approval process.
Decision	Validate Invoice Details	Decision to validate the invoice for the customer invoice cancellation approval process.
Process	Cancel Customer Invoice	Process to cancel customer invoice in the SAP S/4HANA system.
Process	Validate Invoice Cancellation Details	Process to validate customer invoice cancellation request before sending for approval.
Form	Admin Form - Business Error or Exception	Admin form for process administrator to retry execution on business error or exception.
Form	Admin Form - User Assignment	Admin form for process administrator to assign task owner.
Form	Cancel Customer Invoice Approval UI	Approval task UI for approver to take decision on the customer invoice cancellation approval process.
Data type	Approver Details	Data type for maintaining approver details like user details, approval required and due duration.
Data type	History Details	Data type for maintaining history details like user id, role, action, comment and date.
Data type	Invoice Cancellation Details	Data type for maintaining customer invoice cancellation request details.
Data type	User Details	Data type for maintaining user details like email id, user id and group id.
Data type	Validation Result Details	Data type for maintaining validation details like status and message.

Actions

Cancel Customer Invoice - Cancel Invoice Action

This service enables you to cancel customer invoice in SAP S/4HANA system. This service is based on CPI endpoint.

Method	API	API Path	Purpose
POST	/http/Wfm/CancelCustomerInvoice	,	Cancel customer invoice in SAP S/4HANA.

Appendix



Custom CDS View and Custom communication scenario

To call the APIs related to Cancel Customer Invoice, the following CDS Views and custom communication scenarios along with communication arrangement should be enabled for the communication user. The SAP S/4HANA custom communication scenario consists of the external API details which was used to display the billing document details, division, distribution channel, company code, net value, sales organization, invoice type and value help used in Cancel Customer Invoice application. This application is developed based on CDS as external ODATA API and creation of custom communication scenario.

The creation of Custom CDS View as external API's and custom communication scenario are provided below.

Creation of CDS View Billing Document (ZZ1_BillingDocument)

Package Name: SAP S/4HANA Cloud for Sales for I_BillingDocument CDS and SAP S/4HANA Cloud for Cross Applications for I_BusinessUserBasic CDS

Label: BillingDocument

Name: ZZ1_BillingDocument

- 1. Login to S4HANA cloud Fiori Launchpad with required credentials.
- 2. Go to Extensibility business group and click on Custom CDS Views tile
- 3. Click on Create button, it will open the pop-up. Provide Label and Name as mentioned above. Choose Standard CDS View option from scenario dropdown and click on button create in pop-up window.
- 4. Select Primary Data Source, a popup will open with list of CDS Views. Provide the Standard CDS view name as I BillingDocument in search field and press enter. Select the required CDS to continue.
- 5. In case to use multiple CDS in Data Sources tab, click on Add button and select Associated Data Sources which opens pop-up. Provide the Standard CDS view name <u>ZZ1 BillingType</u> in search field and Click "OK".
- 6. To add more associated data sources, again click on Add button and select Associated Data Sources which opens pop-up. Select the desired CDS Views, ZZ1_BillingDocumentItem, ZZ1_SalesOrg, ZZ1_DistributionChannel, ZZ1_Division, ZZ1_Region, ZZ1_Country, I BusinessUserBasic and click OK.
- 7. After selection of primary and secondary data sources, click on Join condition icon which open Define Join Conditions pop-up, click Add button and make relationship between two data sources by selection of similar fields in Field of Associated Data Source popup and change cardinality as per requirement of CDS Views.

Define Join Conditions: Perform the join condition between these data sources as listed below:

i) Name: ZZ1_BillingTypeAlias: _ZZ1_BillingTypeCardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
BillingDocumentType	Equal	Field	I BillingDocument.BillingDocumentType

ii) Name: ZZ1_BillingDocumentItem Alias: _ZZ1_BillingDocumentItem

Cardinality: Zero or More[0..*]

Data Source Field One

Data Source Field	Operator	Value Type	Value
BillingDocument	Equal	Field	<u>I_BillingDocument</u> BillingDocument



iii) Name: ZZ1_SalesOrg
Alias: _ZZ1_SalesOrg

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
SalesOrganization	Equal	Field	I BillingDocument.SalesOrganization

iv)Name: ZZ1_DistributionChannel Alias: _ZZ1_DistributionChannel Cardinality: Zero or One[0..1]

 Data Source Field
 Operator
 Value Type
 Value

 DistributionChannel
 Equal
 Field
 I BillingDocument DistributionChannel

v)Name: ZZ1_Division Alias: _ZZ1_Division

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
Division	Equal	Field	I BillingDocument Division

vi)Name: ZZ1_Region Alias: _ZZ1_Region

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
Region	Equal	Field	I BillingDocument Region
Country	Equal	Field	I BillingDocument.Country

vii)Name: ZZ1_Country Alias: _ZZ1_Country

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
Country	Egual	Field	I BillingDocument.Country

viii)Name: ZZ1_BusinessUserBasic Alias: _ZZ1_BusinessUserBasic Cardinality: Zero or More[0..*]

Data Source Field	Operator	Value Type	Value
UserID	Equal	Field	I_BillingDocument.CreatedByUser



8. Go to Elements tab, click add button and select Elements from submenu and select required fields from multiple CDS and click Ok button.

Key	Alias	Path	Label
ON	BillingDocument	I_BillingDocument.BillingDocument	Billing Document

Elements to be added are mentioned in below table.

OFF	BillingDocumentType	I_BillingDocument.BillingDocumentType	Billing Type
OFF	SDDocumentCategory	I_BillingDocument.SDDocumentCategory	SD Document Category
OFF	BillingDocumentCategory	I_BillingDocument.BillingDocumentCategory	Billing Category
OFF	BillingDocumentDate	I_BillingDocument.BillingDocumentDate	Billing Date
OFF	BillingDocumentIsCancelled	I_BillingDocument.BillingDocumentIsCancelled	Canceled
OFF	CancelledBillingDocument	I_BillingDocument.CancelledBillingDocument	Canceled Bill. Do
OFF	TotalNetAmount	I_BillingDocument.TotalNetAmount	Net Value
OFF	TransactionCurrency	I_BillingDocument.TransactionCurrency	Document Curre
OFF	CustomerTaxClassification9	I_BillingDocument.CustomerTaxClassification9	Tax Class.9 Cust
OFF	PayerParty	I_BillingDocument.PayerParty	Payer
OFF	SoldToParty	I_BillingDocument.SoldToParty	Sold-to Party
OFF	PostingDate	I_BillingDocumentAccountingDocument.PostingDate	Posting Date
OFF	SoldToPartyName	I_BillingDocumentSoldToParty.CustomerName	SoldToParty Nam
OFF	PayerPartyName	I_BillingDocumentPayerParty.CustomerName	Payer Name
OFF	BillingDocumentTypeName	_ZZ1_BillingType.BillingDocumentTypeName	Description
OFF	CompanyCode	I_BillingDocument.CompanyCode	Company Code
OFF	PurchaseOrderByCustomer	I_BillingDocument.PurchaseOrderByCustomer	Customer Refere
OFF	SalesOrganization	I_BillingDocument.SalesOrganization	Sales Organizatio
OFF	DistributionChannel	I_BillingDocument.DistributionChannel	Distribution Chan
OFF	Division	I_BillingDocument.Division	Division
OFF	Region	I_BillingDocument.Region	Region
OFF	CreatedByUser	I_BillingDocument.CreatedByUser	Created By
OFF	CreationDate	I_BillingDocument.CreationDate	Created On
OFF	LastChangeDate	I_BillingDocument.LastChangeDate	Changed On
OFF	Country	I_BillingDocument.Country	Dest. Country/Re
OFF	BillingDocumentType_1	I_BillingDocument.BillingDocumentType	Billing Type
OFF	SalesOrganizationName	_ZZ1_SalesOrg.SalesOrganizationName	Sales Organizatio
			Description
OFF	DistributionChannelName	_ZZ1_DistributionChannel.DistributionChannelName	Distribution Chan
			Description
OFF	DivisionName	_ZZ1_Division.DivisionName	Division Descrip
OFF	County	I_BillingDocument.County	County Code
OFF	Country_1	I_BillingDocument.Country	Dest. Country/Re
OFF	RegionName	_ZZ1_Region.RegionName	Description
OFF	CountryName	ZZ1_Country.CountryName	Country/Region Name
OFF	CompanyCodeName	I_BillingDocumentCompanyCode.CompanyCodeName	Company Name
OFF	ManualInvoiceMaintIsRelevant	I_BillingDocument.ManualInvoiceMaintIsRelevant	Man. Invoice Mai
OFF	ShippingCondition	I_BillingDocument.ShippingCondition	Shipping Conditio
OFF	InvoiceListType	I_BillingDocument.InvoiceListType	Invoice List Type
OFF	PersonFullName	_I_BusinessUserBasic.PersonFullName	Description
OFF	_PayerParty	I_BillingDocumentPayerParty	_PayerParty
OFF	_ZZ1_BillingDocumentItem	_ZZ1_BillingDocumentItem	BillingDocumentI
OFF	CompanyCode	I_BillingDocumentCompanyCode	_CompanyCode
OFF	_SalesOrganization	I_BillingDocumentSalesOrganization	SalesOrganizati
OFF	_Division	I_BillingDocumentDivision	Division
OFF	_Region	I_BillingDocumentRegion	_Region
OFF	_Country	I_BillingDocumentCountry	Country
OFF	_BillingDocumentType	I_BillingDocumentBillingDocumentType	_BillingDocumen
	1 = 0 1 1 1 1 1 1 1		_ 5

9. Click on Publish button present on Footer.

Creation of CDS View Billing type (ZZ1_BillingType) Package Name: SAP S/4HANA Cloud for Sales

Label: BillingType

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Name: ZZ1 BillingType

Repeat step 1 to 3 as mentioned above in ZZ1_BillingDocument CDS
For 4th step select primary data source as <u>I_BillingDocumentTypeText</u>
Steps 5, 6 & 7 are not required as it is single data source
Repeat step 8 by selecting required fields in Elements tab as shown in below table

Repeat step 9 by publishing CDS View

Creation of CDS view Billing Document Item (ZZ1_BillingDocumentItem)

Package Name: SAP S/4HANA Cloud for Sales

Label: BillingDocumentItem
Name: ZZ1_BillingDocumentItem

Repeat step 1 to 3 as mentioned above in ZZ1_BillingDocument CDS

For 4th step select primary data source as <u>I_BillingDocumentItem</u> as shown in Step 4 above.

Steps 5, 6 & 7 are not required as it is single data source

Repeat step 8 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	BillingDocume	I_BillingDocumentTypeTex	Billing Type
	ntType	t.BillingDocumentType	
ON	Language	I_BillingDocumentTypeTex	Language
		t.Language	
OF	BillingDocume	I_BillingDocumentTypeTex	Description
F	ntTypeName	t.BillingDocumentTypeNam	
		е	
OF	_Language	I_BillingDocumentTypeTex	_Language
F		tLanguage	
OF	_BillingDocum	I_BillingDocumentTypeTex	_BillingDocu
F	entType	tBillingDocumentType	mentType

Ke y	Alias	Path	Label
ON	BillingDocument	I_BillingDocumentItem.Billin gDocument	Billing Document
ON	BillingDocumentItem	I_BillingDocumentItem.Billin gDocumentItem	Item
OF F	BillingQuantity	I_BillingDocumentItem.Billin gQuantity	Billed Quantity
OF F	BillingQuantityUnit	I_BillingDocumentItem.Billin gQuantityUnit	Sales Unit
OF F	BillingQuantityInBaseUn it	I_BillingDocumentItem.Billin gQuantityInBaseUnit	Billing Qty in SKU
OF F	BaseUnit	I_BillingDocumentItem.Base Unit	Base Unit of Measure
OF F	NetAmount	I_BillingDocumentItem.NetA mount	Net Value
OF F	TransactionCurrency	I_BillingDocumentItem.Trans actionCurrency	Document Currency



OF F	BillingDocumentItemTe xt	I_BillingDocumentItem.Billin gDocumentItemText	Item Descriptio n
OF F	Product	I_BillingDocumentItem.Prod uct	Product
OF F	_ProductText	I_BillingDocumentItemPro ductText	_ProductT ext

Repeat step 9 by publishing CDS View

Creation of CDS View Sales Organization (ZZ1_SalesOrg)

Package Name: SAP S/4HANA Cloud for Sales

Label: SalesOrganization Name: ZZ1_SalesOrg

Repeat step 1 to 3 as mentioned above in ZZ1_BillingDocument CDS

For 4th step, select primary data source as <u>I_SalesOrganizationText</u> as shown in Step 4 above.

Steps 5, 6 & 7 are not required as it is single data source

Repeat step 8 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	SalesOrganization	I_SalesOrganizationText.SalesOrganization	Sales Organization
ON	Language	I_SalesOrganizationText.Language	Language Key
OFF	SalesOrganizationName	I_SalesOrganizationText.SalesOrganizationName	Sales Organization Description
OFF	_Language	I_SalesOrganizationTextLanguage	_Language
OFF	_SalesOrganization	I_SalesOrganizationTextSalesOrganization	_SalesOrganization

Repeat step 9 by publishing CDS View

Creation of CDS View Distribution Channel (ZZ1_DistributionChannel)

Package Name: SAP S/4HANA Cloud for Sales

Label: DistributionChannel Name: ZZ1_DistributionChannel

Repeat step 1 to 3 as mentioned above in ZZ1_BillingDocument CDS

For 4th step select primary data source as <u>I DistributionChannelText</u> as shown in Step 4 above.

Steps 5, 6 & 7 are not required as it is single data source

Repeat step 8 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	DistributionChannel	I_DistributionChannelText.DistributionChannel	Distribution Channel
ON	Language	I_DistributionChannelText.Language	Language Key
OFF	DistributionChannelName	$I_Distribution Channel Text. Distribution Channel Name$	Distribution Channel Description
OFF	_Language	I_DistributionChannelTextLanguage	_Language
OFF	_DistributionChannel	I_DistributionChannelTextDistributionChannel	_DistributionChannel

Repeat step 9 by publishing CDS View

Creation of CDS View Division (ZZ1_Division)
Package Name: SAP S/4HANA Cloud for Sales

Label: Division Name: ZZ1_Division



Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS For 4th step select primary data source as <u>I DivisionText</u> as shown in Step 4 above. Steps 5, 6 & 7 are not required as it is single data source
Repeat step 8 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	Division	I_DivisionText.Division	Division
ON	Language	I_DivisionText.Language	Language Key
OFF	DivisionName	I_DivisionText.DivisionName	Division Description
OFF	_Language	I_DivisionTextLanguage	_Language
OFF	_Division	I_DivisionTextDivision	_Division

Repeat step 9 by publishing CDS View

Creation of CDS View Region (ZZ1_Region)

Package Name: SAP S/4HANA Cloud for Cross Applications

Label: Region Name: ZZ1_Region

Repeat step 1 to 3 as mentioned above in ZZ1_BillingDocument CDS

For 4th step select primary data source as <u>I RegionText</u> as shown in Step 4 above. Steps 5, 6 & 7 are not required as it is single data source

Repeat step 8 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	Country	I_RegionText.Country	Country/Region Key
ON	Region	I_RegionText.Region	Region
ON	Language	I_RegionText.Language	Language Key
OFF	RegionName	I_RegionText.RegionName	Description
OFF	_Country	I_RegionTextCountry	_Country
OFF	_Region	I_RegionTextRegion	_Region
OFF	_Language	I_RegionTextLanguage	_Language

Repeat step 9 by publishing CDS View

Creation of CDS View Country (ZZ1_Country)

Package Name: SAP S/4HANA Cloud for Cross Applications

Label: Country Name: ZZ1 Country

Repeat step 1 to 3 as mentioned above in ZZ1_BillingDocument CDS

For 4th step select primary data source as <u>I CountryText</u> as shown in Step 4 above. Steps 5, 6 & 7 are not required as it is single data source

Repeat step 8 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	Country	I_CountryText.Country	Country/Region
			Key
ON	Language	I_CountryText.Language	Language Key
OFF	CountryName	I_CountryText.CountryName	Country/Region
	-	-	Name
OFF	_Country	I_CountryTextCountry	_Language
OFF	_Language	I_CountryTextLanguage	_Country





Repeat step 9 by publishing CDS View

Creation of CDS View Invoice Document (ZZ1_InvoiceDocument)

Label: InvoiceDocument
Name: ZZ1_ InvoiceDocument

Repeat step 1 to 2 as mentioned above in ZZ1_BillingDocument CDS

For 3rd step select External API option from dropdown while creating the CDS view, as shown in Step 3 above.

Key	Alias	Path	Label
ON	BillingDocument	ZZ1_BillingDocument.BillingDocument	Billing Document
OFF	BillingDocument_1	ZZ1_BillingDocument.BillingDocument	Billing Document
OFF	BillingDocumentType	ZZ1_BillingDocument.BillingDocumentType	Billing Type
OFF	SDDocumentCategory	ZZ1_BillingDocument.SDDocumentCategory	SD Document
			Category
OFF	BillingDocumentCategory	ZZ1_BillingDocument.BillingDocumentCategory	Billing Category
OFF	BillingDocumentDate	ZZ1_BillingDocument.BillingDocumentDate	Billing Date
OFF	BillingDocumentTypeName	ZZ1_BillingDocument.BillingDocumentTypeName	Description
OFF	PayerPartyName	ZZ1_BillingDocument.PayerPartyName	Payer Name
OFF	SoldToPartyName	ZZ1_BillingDocument.SoldToPartyName	SoldToParty Name
OFF	PostingDate	ZZ1_BillingDocument.PostingDate	Posting Date
OFF	SoldToParty	ZZ1_BillingDocument.SoldToParty	Sold-to Party
OFF	PayerParty	ZZ1_BillingDocument.PayerParty	Payer
OFF	CustomerTaxClassification9	ZZ1_BillingDocument.CustomerTaxClassification9	Tax Class.9 Customer
OFF	TransactionCurrency	ZZ1_BillingDocument.TransactionCurrency	Document Currency
OFF	TotalNetAmount	ZZ1_BillingDocument.TotalNetAmount	Net Value
OFF	CancelledBillingDocument	ZZ1_BillingDocument.CancelledBillingDocument	Canceled Bill. Doc.
OFF	BillingDocumentIsCancelled	ZZ1_BillingDocument.BillingDocumentIsCancelled	Canceled
OFF	CompanyCode	ZZ1_BillingDocument.CompanyCode	Company Code
OFF	Division	ZZ1_BillingDocument.Division	Division
OFF	DistributionChannel	ZZ1_BillingDocument.DistributionChannel	Distribution Channel
OFF	SalesOrganization	Y1_BillingDocument.SalesOrganization	Sales Organization
OFF	PurchaseOrderByCustomer	ZZ1_BillingDocument.PurchaseOrderByCustomer	Customer Reference
OFF	Region	ZZ1_BillingDocument.Region	Region
OFF	CreatedByUser	ZZ1_BillingDocument.CreatedByUser	Created By
OFF	CreationDate	ZZ1_BillingDocument.CreationDate	Created On
OFF	LastChangeDate	ZZ1_BillingDocument.LastChangeDate	Changed On
OFF	BillingDocumentType_1	ZZ1_BillingDocument.BillingDocumentType	Billing Type
OFF	SalesOrganizationName	ZZ1_BillingDocument.SalesOrganizationName	Sales Organization Description
OFF	DistributionChannelName	ZZ1_BillingDocument.DistributionChannelName	Distribution Channel Description



OFF	DivisionName	ZZ1_BillingDocument.DivisionName	Division
			Description
OFF	County	ZZ1_BillingDocument.County	County Code
OFF	Country	ZZ1_BillingDocument.Country	Dest.
			Country/Region
OFF	RegionName	ZZ1_BillingDocument.RegionName	Description
OFF	CountryName	ZZ1_BillingDocument.CountryName	Country/Region
			Name

For 4th step select primary data source as ZZ1_BillingDocument as shown in Step 4 above.

Steps 5, 6 & 7 are not required as it is single data source

Repeat step 8 by selecting required fields in Elements tab as shown in below table

Creation of Custom Communication Scenario

- 1. Login to SAP S/4HANA cloud Fiori Launchpad with required credentials.
- 2. Go to Extensibility in toolbar and click Custom Communication Scenarios tile.
- 3. Click on New button which opens pop-up window. Provide communication scenario ID as BillingDocument and description as Billing Document.
- 4. Click on Add button in Inbound services and select required CDS from Add services pop-up and click on OK button.
- 5. Click on Publish button present on Footer, it will enable the Create Arrangement button after successful publish.
- 6. Click on Create Arrangement button, it will navigate to new Fiori app Communication arrangement by open pop-up new communication arrangement. Click on Create button.
- 7. Enter Communication system and Username created in SAP S/4HANA system. Refer here to know how to create Communication user and Communication System
- 8. Save the Communication Arrangement and status should change to Active. For more details, refer here how to create Communication Arrangement

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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