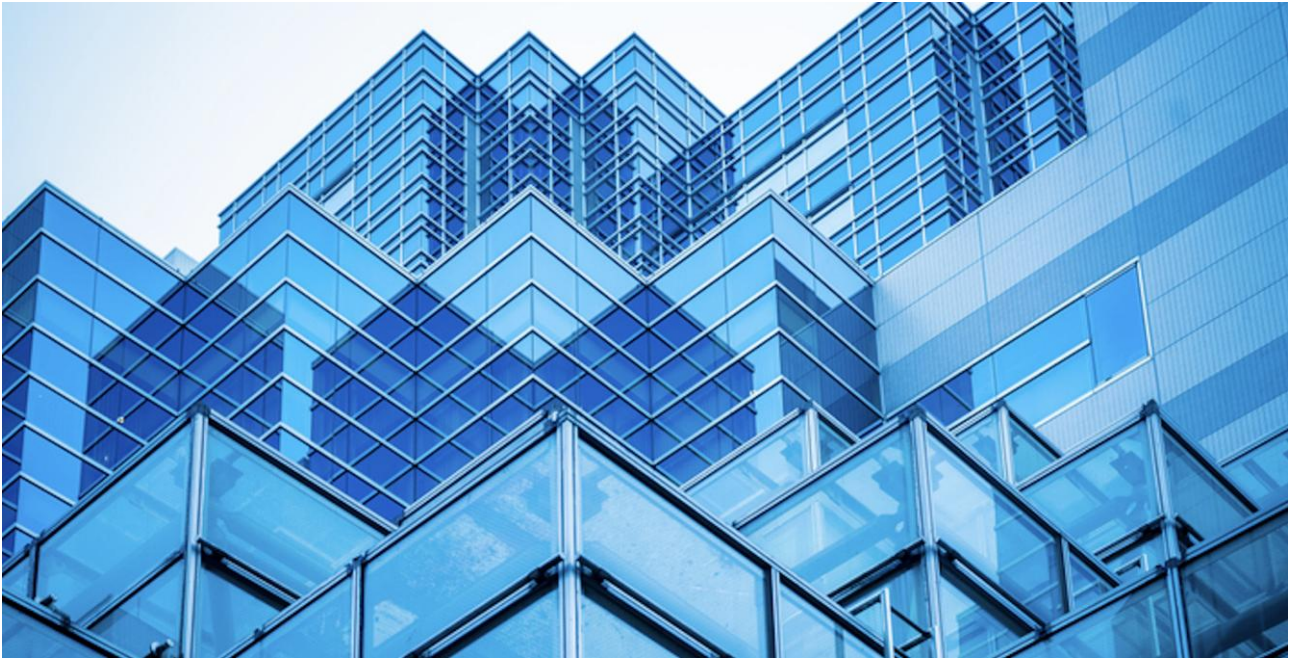




PUBLIC

SAP Build Process Automation

Customer Business Discontinuation Accounts Receivable Configuration and User Guide

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Change Log

Version	Date	Description
1.0.0	June 23, 2025	Document update: Appendix updated

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 and its capabilities.

Overview

This document provides technical information about what needs to be configured to make the package – Customer Business Discontinuation Accounts Receivable approval process content package run. The main audience of this document are technical personas like IT Administrators or Developers.

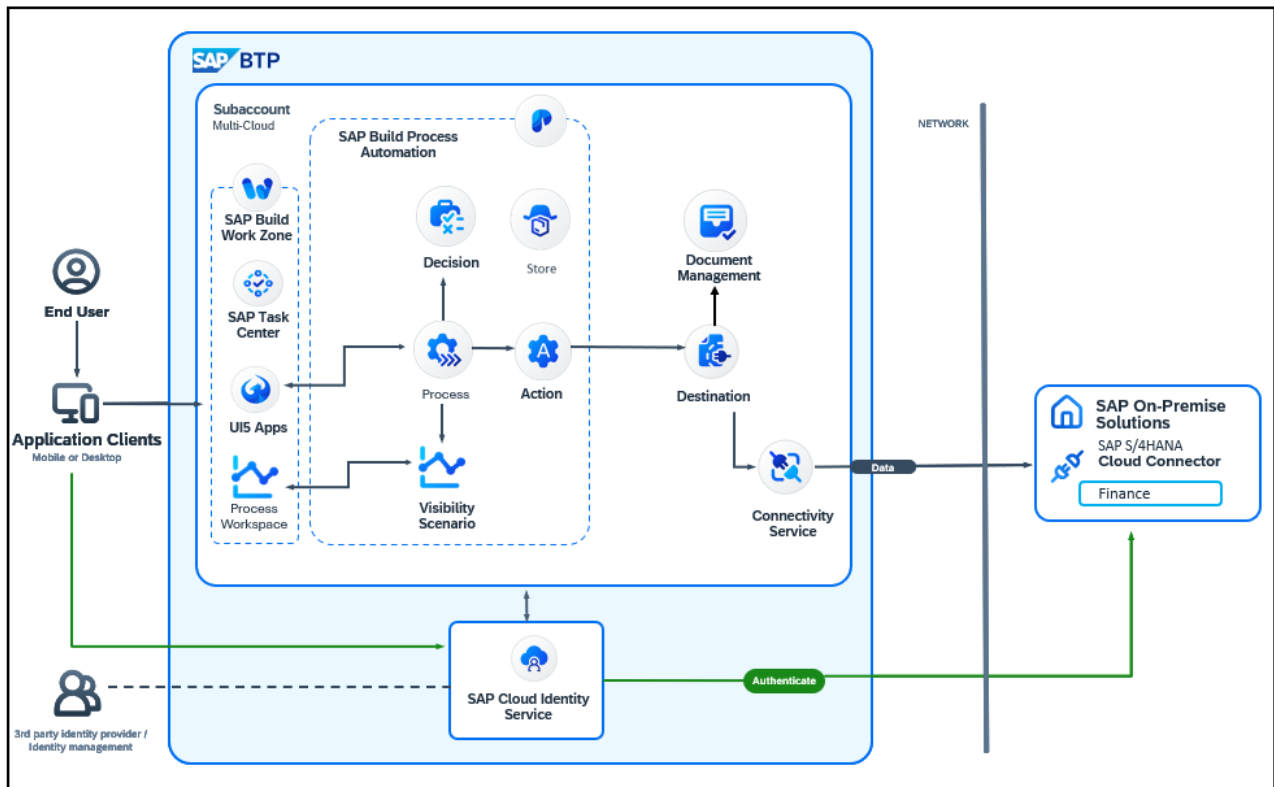
Customer Business Discontinuation Accounts Receivable content package for SAP S/4HANA automates business discontinuation approvals in a flexible and transparent approach. The business discontinuation is performed based on the approvals and validations performed in the process.

This content package can be used with both SAP S/4HANA Cloud Private Edition (2023 onwards) and SAP S/4HANA On-Premise.

Features:

- Approval/Rework tasks for approver(s) and requestor
- Automatic email notification to parties involved.
- Out-of-the-box visibility into key process performance indicator

Process Flow Diagram



Solution flow :

1. The requestor submits a business discontinuation request for validation of accounts receivable details from the start UI.
2. On successful validation, request will be sent for approval to the corresponding approver.
3. Approver evaluates the business discontinuation request to decide whether to approve or reject the request.
4. If approved, based on the net balance the flow will be decided.
 - If Net balance = 0, then the invoice and payments will be cleared from SAP S/4 HANA system and confirmation task will be sent to finance user.
 - If Net balance < 0, then notification will be sent to the requestor and Customer Refund Request process will be triggered.
 - If Net balance > 0, then notification will be sent to customer to clear the payment.
5. If the request is rejected by the approver, the process will end, and notification will be sent to the requestor.

Note:

- The process can be triggered via a Start UI.

Required SAP Business Technology Platform Services

The following SAP Business Technology Platform services are required to consume the **Customer Business Discontinuation Accounts Receivable**:

- SAP Build Process Automation
- SAP Connectivity service
- SAP Business Application Studio
- SAP Application Runtime Service

- SAP Work Zone, standard or advanced
- SAP Document Management Service
- 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 SAP S/4HANA user.
- Manage Customer Refund Request package must be available and should be deployed.

Configuration Guide

Customer Business Discontinuation Accounts Receivable template requires SAP Build Process Automation subscription and Destination Setup for SAP Build Process Automation. Follow the [setup and configuration section](#).

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
Type	HTTP
URL	<"endpoints"."api">
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 [help document](#) for more details.

Configure SAP S/4HANA Destination

This content package can be used with S/4HANA On-Premise. Destination can be created 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

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 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-premise 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-premise using Cloud Connector.

Resources	Protocol	Backend-Type
/sap/opu/odata/sap/ZZ1_OPENDELIVERYITEMS_CDS	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_CUSTOMERDETAILS_1_CDS	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_COMPCURRENCY_CDS	OData	SAP S/4HANA

/sap/opu/odata/sap/ZZ1_OVERDUEAMT_CDS	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_SALESORDER_CDS	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_CUSTOMREMAIL_CDS	OData	SAP S/4HANA
/sap/opu/odata/sap/ZZ1_DOCUMENTITEMS_CDS	OData	SAP S/4HANA
/sap/opu/odata/sap/ZAPI_JE_CLEAR_SRV	OData	SAP S/4HANA

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 “**Customer Business Discontinuation Accounts Receivable**”
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 “**Customer Business Discontinuation Accounts Receivable**” 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 Customer Business Discontinuation Accounts Receivable content package. Below are details of Task UI application

Task UI Application: Approval Task UI for Customer Business Discontinuation
Finance User Task UI for Customer Business Discontinuation

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_archives 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.

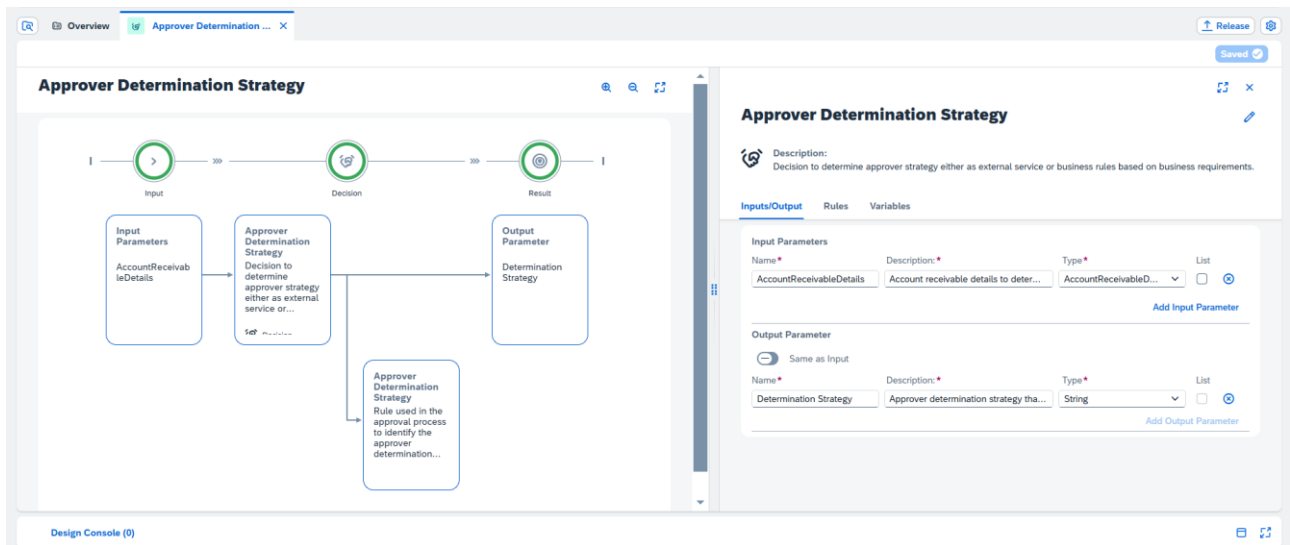
Configure Decisions

There are 6 decisions in this template. We can configure as required.

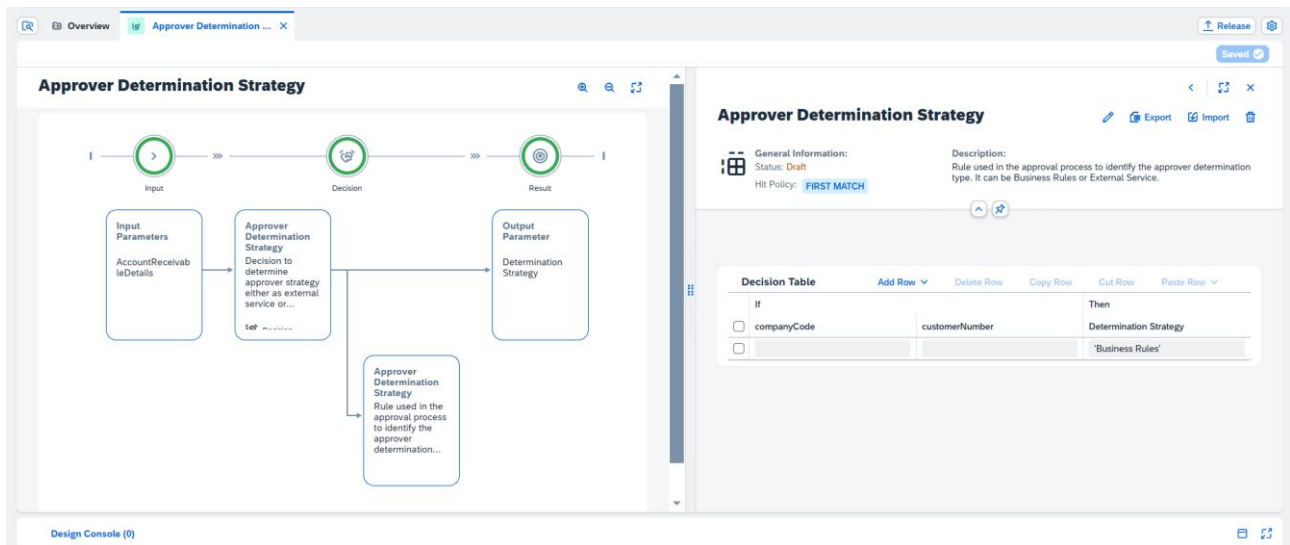
1. Approver Determination Strategy

Decision to determine approver strategy either as external service or business rules based on business requirements. To modify the decision:

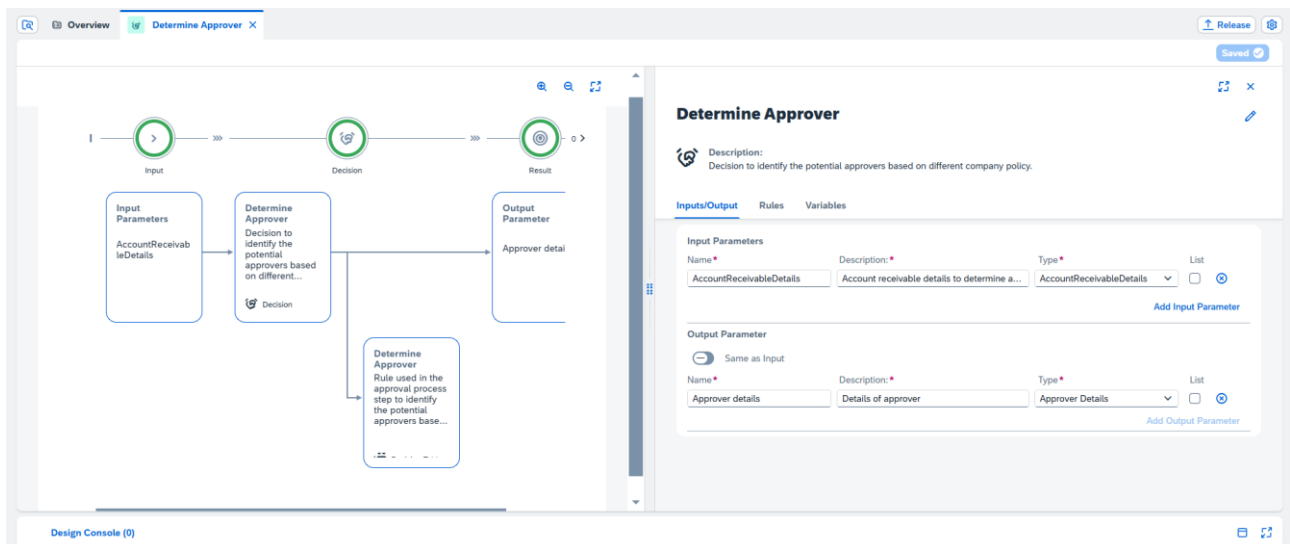
- In process editor, double click to open the decision.
- Select the rule from the decision diagram.



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

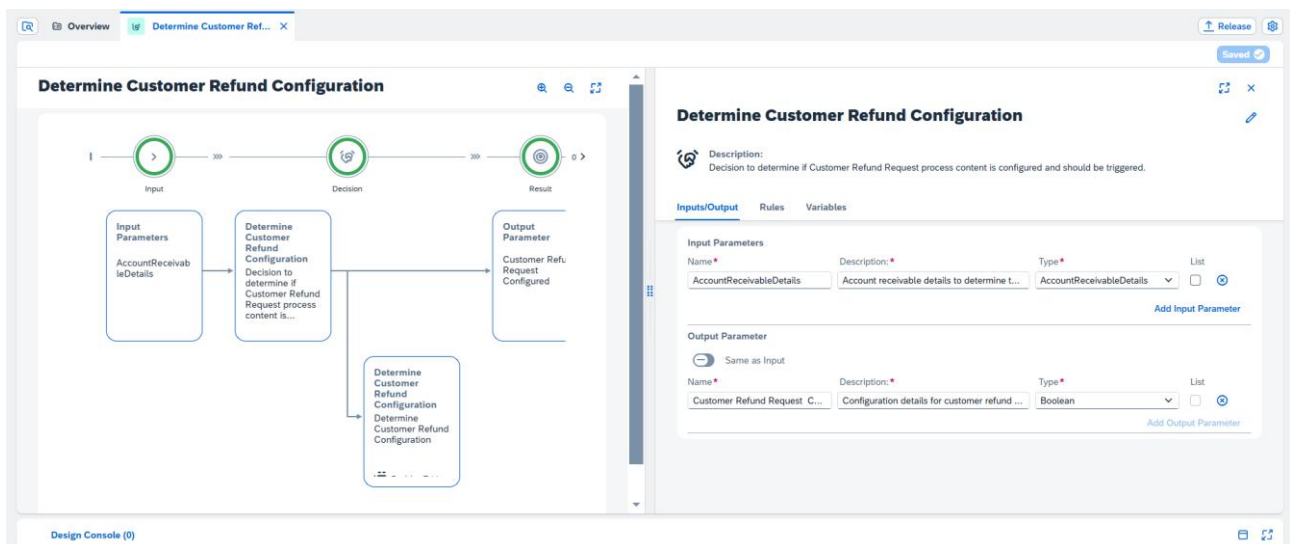


2. Determine Approver
Decision to identify the potential approvers based on different company policy.



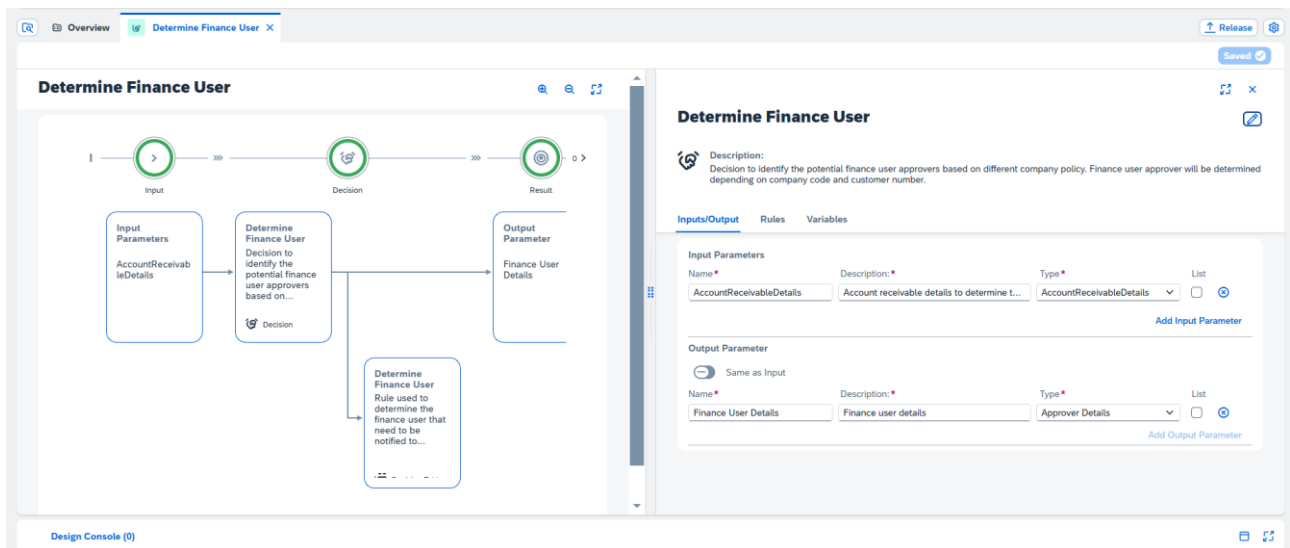
3. Determine Customer Refund Configuration

Decision to determine if Customer Refund Request process content is configured and should be triggered.



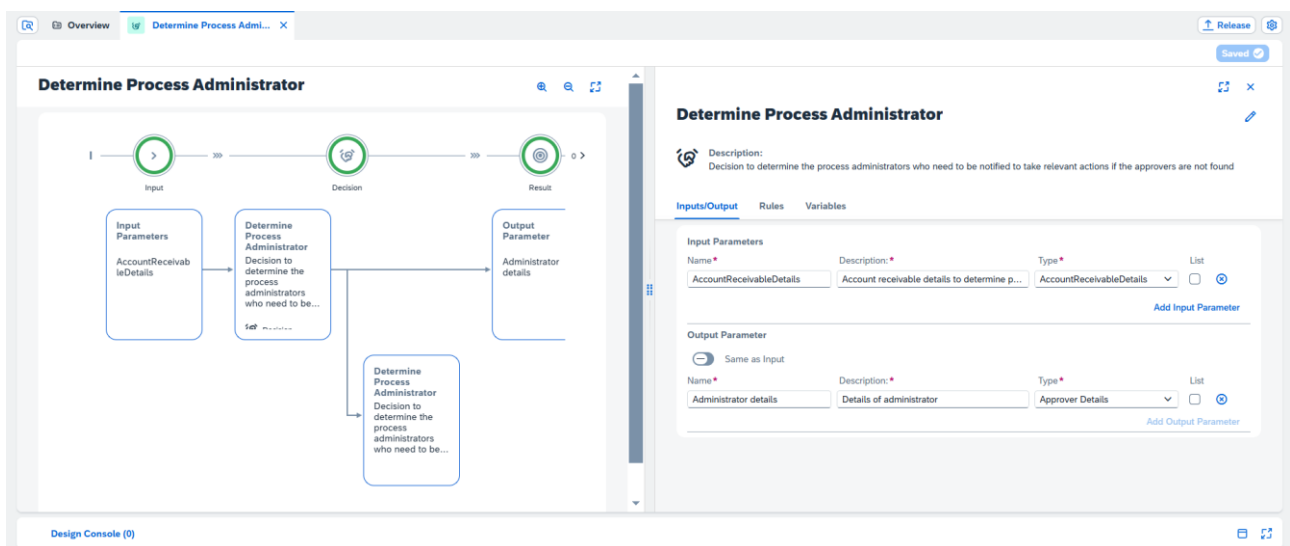
4. Determine Finance User

Decision to identify the potential finance user approvers based on different company policy. Finance user approver will be determined depending on company code and customer number.



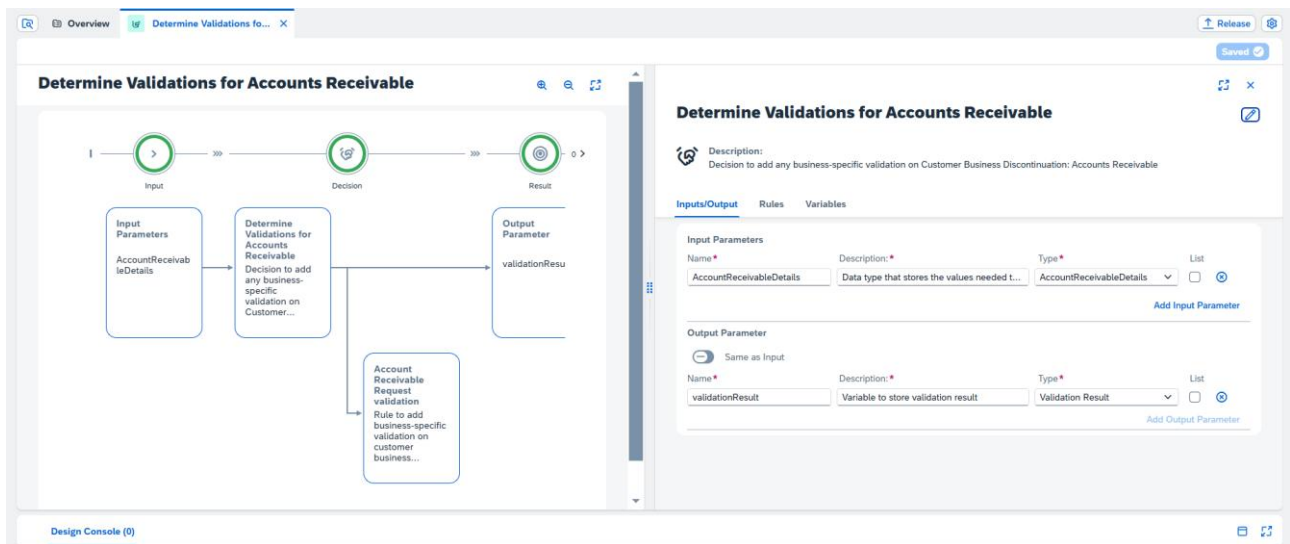
5. Determine Process Administrator

Decision to determine the process administrators who need to be notified to take relevant actions if the approvers are not found.



6. Determine Validations for Accounts Receivable

Decision to add any business-specific validation on Customer Business Discontinuation Accounts Receivable.



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**'.

Mail Body

Dear Approver,
Kindly approve the 'Customer Business Discontinuation: Accounts Receivable' request in your My Inbox application.

Customer business discontinuation record details:

Company Code: >>> companyCode
Company Code Name: >>> companyDesc
Customer Number: >>> customerNumber
Customer Name: >>> customerDesc
Net Balance Amount: >>> netBalance
Currency: >>> currencyCode
Request Date: >>> date

This is a system generated message. Please do not respond to it.

Close

- 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 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.

- **SAP S/4HANA:** Business Technology Platform destination to connect with SAP S/4HANA system. As shown in SAP S/4HANA destination set-up-section.
- **ProcessAutomation_Destination:** Business Technology Platform destination to connect with ProcessAutomation_API

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 Customer Business Discontinuation Accounts Receivable content package. Below are details of Start UI application:

Start UI Application: Customer Business Discontinuation

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 detail
- 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

```
var definitionId = " ";
var data = {
  definitionId: definitionId,
  context: oDataWf
};

oController.fnValidateInputFields(data);
},

fnGetNetBalance:function(curr){
  var oController=this;
  var oCustomer = oController.byId("idCustomer").getValue();
  var oCompanyCode = oController.byId("idCompanyCode").getValue();
  var oDateFormat = sap.ui.core.format.DateFormat.getDateTimeInstance({
    pattern: "yyyy-MM-dThh:mm:ss"
  });

  //datetime'2021-12-16T06:50:03'
  var oNow = new Date();
  var currentDate = oDateFormat.format(oNow);
  var newDate = encodeURIComponent(currentDate);
```

- 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.

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 Customer Business Discontinuation Start UI from the list of apps and choose Add.
3. Add the relevant roles to the user. Customer Business Discontinuation 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 [SAP Work Zone with SAP Build Process Automation Applications](#) using help documentation.

User Guides

Capabilities

The following are the capabilities of this template:

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

Type	Name	Description
Decision	Approver Determination Strategy	Decision to determine approver strategy either as external service or business rules based on business requirements.
Decision	Determine Approver	Decision to identify the potential approvers based on different company policy.
Decision	Determine Customer Refund Configuration	Decision to determine if Customer Refund Request process content is configured and should be triggered.
Decision	Determine Finance User	Decision to identify the potential finance user approvers based on different company policy. Finance user approver will be determined depending on company code and customer number.
Decision	Determine Process Administrator	Decision to determine the process administrators that need to be notified to resolve any issue with the process
Decision	Determine Validations for Accounts Receivable	Decision to add any business-specific validation on Customer Business Discontinuation: Accounts Receivable
Process	Account Receivable Approval	Process to approve the requested account receivable business discontinuation for posting in SAP S/4HANA system.
Process	Account Receivable Creation	Process to create business discontinuation in SAP S/4HANA system after completion of validation and approval steps
Process	Account Receivable Validation	Process to validate the Customer Business Discontinuation: Accounts Receivable based on the company code and customer number before sending for approval request
Data type	AccountReceivableCreationDetails	Data type to store Account Receivable creation details for posting in SAP S/4 HANA
Data type	AccountReceivableDetails	Data type to store the account receivables details.
Data type	Approver Details	Data type to store approver details
Data type	History	Data type to store finance user decision, action and comments
Data type	Validation Result	Data type to store the validation results

Form	Admin Task	Form to provide approver details manually by the admin.
Form	Approval Task UI for Customer Business Discontinuation	Form to approve the business discontinuation request.
Form	User Task UI for Customer Business Discontinuation	Form to confirm the business discontinuation by the finance user
Visibility Scenarios	Customer Business Discontinuation	Gain visibility on Customer Business Discontinuation approval requests including key process performance indicators.

Actions

Manage Customer Refund Request - Start Instance Action

Action to start the process instance of 'Manage Customer Refund Request' from 'Customer Business Discontinuation Accounts Receivable' in case net balance needs to be refunded.

Method	API	API Path	Purpose
POST	/public/workflow/rest	/v1/workflow-instances	In Customer Business Discontinuation Accounts Receivable process if the net balance is lesser than zero then customer refund request process must start

Business discontinuation - Create Discontinuation Action

Action to create business discontinuation details in SAP S/4HANA.

Method	API	API Path	Purpose
POST	/sap/opu/odata/sap/ZAPI_JE_CLEA R_SRV	/JournalEntrySet	Used to clear the data from the SAP S/4HANA related to the business

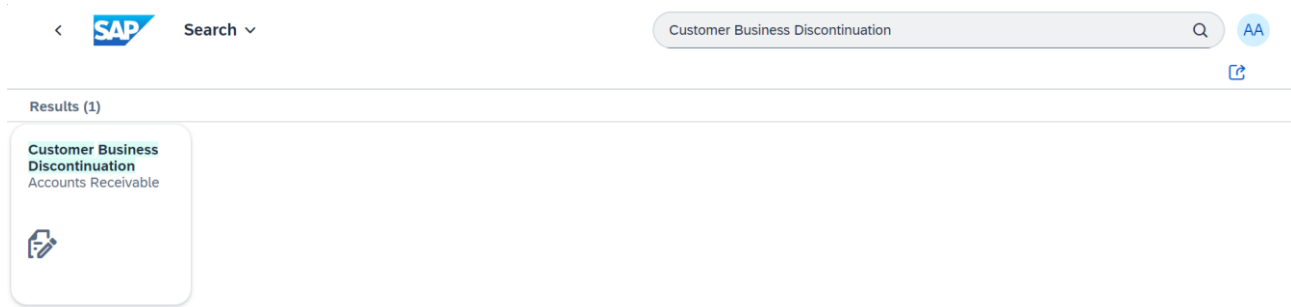
SAP UI5 SCREEN

This is the Start UI application to submit the request for Customer Business Discontinuation Account Receivable values must be entered here to trigger the process.

The tile name that must be chosen in the Work Zone is: **'Customer Business Discontinuation'**.

Once navigated to the tile, User can start the process .

1. Access app Customer Business Discontinuation



2. Create Customer Business Discontinuation Request. In search field (Customer & Company Code) select customer number and Company code and given data will be populated based on selection criteria or you can directly click the 'Create' to provide the details.

The screenshot shows the 'Customer Business Discontinuation' form. At the top, there is a header with the SAP logo and the text 'Customer Business Discontinuation'. Below the header, there are two input fields: 'Customer:' and 'Company Code:'. To the right of these fields are buttons labeled 'Go' and 'Adapt Filters'. Below the input fields is a table titled 'List Of Customers'. The table has four columns: 'Customer', 'Customer Name', 'Company Code', and 'Company Name'. There is a 'Create' button and a help icon (?) to the right of the table. Below the table, there are three input fields: 'Customer: *', 'Company Code: *', and 'Request Date: *'. To the right of the 'Customer: *' field is a button labeled 'Domestic Customer 12 for US name2'. To the right of the 'Company Code: *' field is a button labeled 'LP Company Code USA'.

In Customer Business Discontinuation UI, we have 7 fields:

Customer – Help to lists all the Customers which are not flagged for deletion

Company Code – A F4 help that lists all the valid Company Codes

Request Date – The date of communication reference

Attachment Upload – Upload reference document to initiate the request

Get Balance – Gets the balance based on the selected customer and company code

Submit – Creates Customer Business Discontinuation request and triggers the workflow in BTP

Cancel – Cancels the request

Once all the mandatory/required details are filled, click on the Submit button in SAP UI5 screen to start the process

Appendix

Custom CDS View and Custom communication scenario

To call the APIs related to Customer Business Discontinuation: Account Receivable, 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 customer details, sales orders, delivery items, ledger balance and value help used in Customer Business Discontinuation: Account Receivable 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 Open Delivery Items (ZZ1_OpenDeliveryItems)

Package Name: SAP S/4HANA Cloud for Sales

Label: OpenDeliveryItems

Name: ZZ1_OpenDeliveryItems

1. Login to SAP S/4HANA 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 **External API** 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_SalesAnalyticsCube_1 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 I_SlsOrdConfAnalyticsCube in search field and Click "OK".
6. 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:

Name: I_SlsOrdConfAnalyticsCube

Alias: _I_SlsOrdConfAnalyticsCube

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
SalesOrder	Equal	Field	I_SalesAnalyticsCube_1.SalesDocument
SalesOrderItem	Equal	Field	I_SalesAnalyticsCube_1.SalesDocumentItem
BillToParty	Equal	Field	I_SalesAnalyticsCube_1.Customer

7. Go to Elements tab, click add button and select Elements from submenu and select required fields from multiple CDS click Ok button.
8. Click on Publish button present on Footer.

Creation of CDS View Customer details (ZZ1_customerDetails)

Package Name: SAP S/4HANA Cloud for Database and Data Management

Label: customer

Name: ZZ1_customerDetails

Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS

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

For step 5, select I_CustomerCompany as Associated data source.

For step 6, use below join condition.

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
Customer	Equal	Field	Account

Repeat step 7 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	Account	C_Customersuppliercompanycode.Account	Customer
ON	CompanyCode	C_Customersuppliercompanycode.CompanyCode	Company Code
OFF	CompanyCodeName	C_Customersuppliercompanycode.CompanyCodeName	Company Name
OFF	FullName	C_Customersuppliercompanycode.FullName	Customer Name
OFF	Name	C_Customersuppliercompanycode.Name	Name of Customer
OFF	DeletionIndicator	_I_CustomerCompany.DeletionIndicator	Co.cde deletion flag

Repeat step 8 by publishing CDS View

Creation of CDS view Company Code Currency (ZZ1_CompCurrency)

Package Name: SAP S/4HANA Cloud for Finance

Label: CompCurrency

Name: ZZ1_CompCurrency

Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS

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

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

Repeat step 7 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	CompanyCode	I_CompanyCode.CompanyCode	Company Code
OFF	Currency	I_CompanyCode.Currency	Currency

Repeat step 8 by publishing CDS View

Creation of CDS View Overdue Amount (ZZ1_OverdueAmt)

Package Name: SAP S/4HANA Cloud for Finance

Label: OverdueAmt

Name: ZZ1_OverdueAmt

Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS

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

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

Repeat step 7 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	CompanyCode	I_FutureAccountsReceivables.CompanyCode	Company Code
ON	Customer	I_FutureAccountsReceivables.Customer	Customer
ON	GLAccount	I_FutureAccountsReceivables.GLAccount	G/L Account
ON	SpecialGLCode	I_FutureAccountsReceivables.SpecialGLCode	Special G/L
ON	NetDueIntervalText	I_FutureAccountsReceivables.NetDueIntervalText	Net Due Interval
OFF	CompanyCode_1	I_FutureAccountsReceivables.CompanyCode	Company Code
OFF	Customer_1	I_FutureAccountsReceivables.Customer	Customer
OFF	DisplayCurrency	I_FutureAccountsReceivables.DisplayCurrency	Display Currency
OFF	TotalOverdueAmtInDspCrcy	I_FutureAccountsReceivables.TotalOverdueAmtInDspCrcy	Overdue Amount
OFF	AmountInDisplayCurrency	I_FutureAccountsReceivables.AmountInDisplayCurrency	Amount in Displ.Crcy

Repeat step 8 by publishing CDS View

Creation of CDS View Open Sales Orders (ZZ1_SalesOrder)

Package Name: SAP S/4HANA Cloud for Sales

Label: SalesOrder

Name: ZZ1_SalesOrder

Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS

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

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

Key	Alias	Path	Label
-----	-------	------	-------

ON	SalesOrder	I_SlsOrdConfAnalyticsCube.SalesOrder	Sales Order
ON	SalesOrderItem	I_SlsOrdConfAnalyticsCube.SalesOrderItem	Item
OF F	TotalNetAmount	I_SlsOrdConfAnalyticsCube.TotalNetAmount	Order Net Value
OF F	ConfdDelivQtyInOrderQtyUnit	I_SlsOrdConfAnalyticsCube.ConfdDelivQtyInOrderQtyUnit	Cumltv Confd Qty(SU)
OF F	OrderQuantityUnit	I_SlsOrdConfAnalyticsCube.OrderQuantityUnit	Sales Unit
OF F	TransactionCurrency	I_SlsOrdConfAnalyticsCube.TransactionCurrency	Document Currency
OF F	NetAmount	I_SlsOrdConfAnalyticsCube.NetAmount	Order Item Net Value
OF F	BaseUnit	I_SlsOrdConfAnalyticsCube.BaseUnit	Base Unit of Measure
OF F	Material	I_SlsOrdConfAnalyticsCube.Material	Material
OF F	ConfdDeliveryQtyInBaseUnit	I_SlsOrdConfAnalyticsCube.ConfdDeliveryQtyInBaseUnit	Cumltv Confd Qty(BU)
OF F	RequestedDeliveryDate	I_SlsOrdConfAnalyticsCube.RequestedDeliveryDate	Requested Delivery Date
OF F	BillToParty	I_SlsOrdConfAnalyticsCube.BillToParty	Bill-to Party
OF F	BillingCompanyCode	I_SlsOrdConfAnalyticsCube.BillingCompanyCode	CCode to Be Billed
OF F	SoldToParty	I_SlsOrdConfAnalyticsCube.SoldToParty	Sold-to Party

Repeat step 7 by selecting required fields in Elements tab as shown in below table

Repeat step 8 by publishing CDS View

Creation of CDS View Customer Email (ZZ1_CustomerEmail)

Package Name: SAP S/4HANA Cloud for Database and Data Management - I_Customer and SAP S/4HANA Cloud for Cross Applications - I_AddressEmailAddress_2

Label: CustomerEmail

Name: ZZ1_CustomerEmail

Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS

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

For step 5, select I_AddressEmailAddress_2 as Associated data source as shown in Step 5 above.

For step 6, use below join condition.

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
AddressID	Equal	Field	I_Customer.AddressID

Repeat step 7 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	Customer	I_Customer.Customer	Customer
OFF	CustomerFullName	I_Customer.CustomerFullName	Customer Name
OFF	EmailAddress	_I_AddressEmailAddress_2.EmailAddress	Email Address
OFF	AddressID	I_Customer._AddressDefaultRepresentation.AddressID	Address Number

Repeat step 8 by publishing CDS View

Creation of CDS View Ledger Items (ZZ1_DocumentItems)

Package Name: SAP S/4HANA Cloud for Finance

Label: DocumentItems

Name: ZZ1_DocumentItems

Repeat step 1 to 3 as mentioned above in Open Delivery Items CDS

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

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

Repeat step 7 by selecting required fields in Elements tab as shown in below table

Key	Alias	Path	Label
ON	CompanyCode	I_OperationalAcctgDocCube.CompanyCode	Company Code
ON	FiscalYear	I_OperationalAcctgDocCube.FiscalYear	Fiscal Year
ON	AccountingDocument	I_OperationalAcctgDocCube.AccountingDocument	Journal Entry
ON	AccountingDocumentItem	I_OperationalAcctgDocCube.AccountingDocumentItem	Posting View Item
OFF	Customer	I_OperationalAcctgDocCube.Customer	Customer
OFF	DocumentDate	I_OperationalAcctgDocCube.DocumentDate	Journal Entry Date
OFF	PostingDate	I_OperationalAcctgDocCube.PostingDate	Posting Date
OFF	InvoiceReference	I_OperationalAcctgDocCube.InvoiceReference	Invoice Reference

OFF	DocumentItemText	I_OperationalAcctgDocCube.DocumentItemText	Item Text
OFF	AmountInCompanyCodeCurrency	I_OperationalAcctgDocCube.AmountInCompanyCodeCurrency	Amount in Company Code Currency
OFF	AmountInTransactionCurrency	I_OperationalAcctgDocCube.AmountInTransactionCurrency	Amount in Transaction Currency
OFF	TransactionCurrency	I_OperationalAcctgDocCube.TransactionCurrency	Transaction Currency
OFF	SpecialGLCode	I_OperationalAcctgDocCube.SpecialGLCode	Special G/L
OFF	PurchasingDocument	I_OperationalAcctgDocCube.PurchasingDocument	Purchasing Document
OFF	IsCleared	I_OperationalAcctgDocCube.IsCleared	Is Cleared
OFF	FinancialAccountType	I_OperationalAcctgDocCube.FinancialAccountType	Account Type
OFF	CompanyCodeCurrency	I_OperationalAcctgDocCube.CompanyCodeCurrency	Company Code Currency
OFF	CompanyCodeCurrency_1	I_OperationalAcctgDocCube.CompanyCodeCurrency	Company Code Currency
OFF	SalesDocument	I_OperationalAcctgDocCube.SalesDocument	Sales Document
OFF	AssignmentReference	I_OperationalAcctgDocCube.AssignmentReference	Assignment Reference

Repeat step 8 by publishing CDS View

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 OpenDeliveryItems and description as Open Delivery Items.
4. Click on Add button in Inbound services and select required CDS ZZ1_OPENDELIVERYITEMS_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.

8. Save the Communication Arrangement and status should change to Active.
9. Repeat all the above steps from 1 to 8 for below mentioned CDS. ZZ1_customerDetails

ZZ1_CompCurrency

ZZ1_OverdueAmt

ZZ1_SalesOrder

ZZ1_CustomerEmail

ZZ1_DocumentItems

Setup Service: /sap/opus/odata/sap/ZAPI_JE_CLEAR_SRV/Doc_HeaderSet

1. Go to the **SAP GUI** and enter **SEGW** in the command field to open the **Gateway Service Builder**.
2. In the **Service Builder** screen, click on the "**Create Project**" button.
3. Enter a name 'ZAPI_JE_CLEAR' for your project in the **Project Name** field. This name should be unique and descriptive.
4. Provide a relevant short description of your project.
5. In the left-hand tree structure, right-click on **Data Model** and choose **Create -> Entity Type**.
6. Give the entity type a name as 'Doc_Header'
7. After creating the entity type, you can add **properties** (fields/attributes) that correspond to the attributes of your data model.

Name	Is Key	Edm Core Type	Prec.	Scale	Max ...	UnitCreat...	Upda...	Sorta...	Nulla...	Filt.	Label	La...	Co...	ABAP Fi...	A...	Semanti
CompanyCode	☒	Edm.String	0	0	4		☐	☐	☐	☐	Company Code	T	BUKRS			
DocumentNumber	☒	Edm.String	0	0	10		☐	☐	☐	☐	Document Number	T	BELNR			
DocumentType	☐	Edm.String	0	0	2		☐	☐	☐	☐	Document Type	T	BLART			
DocumentDate	☐	Edm.DateTime	7	0	0		☐	☐	☐	☐	Document Date	T	BLDAT			
PostingDate	☐	Edm.DateTime	7	0	0		☐	☐	☐	☐	Posting Date	T	BUDAT			
Period	☐	Edm.String	0	0	2		☐	☐	☐	☐	Period	T	MONAT			
TranslatnDate	☐	Edm.DateTime	7	0	0		☐	☐	☐	☐	Translatn Date	T	WWERT			
UserName	☐	Edm.String	0	0	12		☐	☐	☐	☐	User Name	T	USNAM			
Reference	☐	Edm.String	0	0	16		☐	☐	☐	☐	Reference	T	XBLNR			
DocHeaderText	☐	Edm.String	0	0	25		☐	☐	☐	☐	Doc.Header Text	T	BKTX			
Currency	☐	Edm.String	0	0	5		☐	☐	☐	☐	Currency	T	WAERS			
ExchangeRate	☐	Edm.Decimal	9	5	0		☐	☐	☐	☐	Exchange rate	T	KURSF			
ClearingTransaction	☐	Edm.String	0	0	8		☐	☐	☐	☐	Clearing Transact...	T	AUGLV			
TestRun	☐	Edm.String	0	0	1		☐	☐	☐	☐	Test Run	T	TEST_R...			

8. In the left-hand tree structure, right-click on **Data Model** and choose **Create -> Entity Type**.
9. Give the entity type a name as 'AparItem'
10. After creating the entity type, you can add **properties** (fields/attributes) that correspond to the attributes of your data model.

Name	Is Key	Edm Core Type	Prec.	Scale	Max ...	UnitCreat...	Upda...	Sorta...	Nulla...	Filt.	Label	La...	Co...	ABAP Fi...	A...	Se
CompanyCode	☒	Edm.String	0	0	0		☐	☐	☐	☐	Company Code	T	BUKRS			
DocumentNumber	☒	Edm.String	0	0	0		☐	☐	☐	☐	Document Number	T	BELNR			
FiscalYear	☐	Edm.String	0	0	0		☐	☐	☐	☐	Fiscal Year	T	GJAHR			
Item	☐	Edm.String	0	0	0		☐	☐	☐	☐	Item	T	BUZEI			
AccountType	☐	Edm.String	0	0	0		☐	☐	☐	☐	Account Type	T	KOART			
OpenItemAccNo	☐	Edm.String	0	0	0		☐	☐	☐	☐	Open Item Accou...	T	KONKO			
PartialPayAmount	☐	Edm.Decimal	0	0	0		☐	☐	☐	☐	Partial Clearing A...	T	PPAMN...			
CashDiscount	☐	Edm.Decimal	0	0	0		☐	☐	☐	☐	Cash Discount	T	CDAMT...			
CashDiscountPer	☐	Edm.Decimal	0	0	0		☐	☐	☐	☐	Cash Discount Pe...	T	CDPER...			
OtherDedAmount	☐	Edm.Decimal	0	0	0		☐	☐	☐	☐	Other Deduction ...	T	ODAMN...			
OtherDedReason	☐	Edm.String	0	0	0		☐	☐	☐	☐	Other Deduction ...	T	RSTGR			

11. In the left-hand tree structure, right-click on **Data Model** and choose **Create -> Entity Type**.
12. Give the entity type a name as 'AccountGL'

13. After creating the entity type, you can add **properties** (fields/attributes) that correspond to the attributes of your data model

Name	Is Key	Edm Core Type	Prec.	Scale	Max ...	UnitCreat...	Upda...	Sorta...	Nulla...	Filt.	Label	La...	Co...	ABAP Fi...	A...	Se
CompanyCode	☒	Edm.String	0	0	0		☐	☐	☐	☐	Company Code	T	BUKRS			
DocumentNumber	☒	Edm.String	0	0	0		☐	☐	☐	☐	Document Number	T	BELNR			
FiscalYear	☐	Edm.String	0	0	0		☐	☐	☐	☐	Fiscal Year	T	GJAHR			
Item	☐	Edm.String	0	0	0		☐	☐	☐	☐	Item	T	BUZEI			
GLAccount	☐	Edm.String	0	0	0		☐	☐	☐	☐	GL Account	T	HKONT			
PartialPayAmount	☐	Edm.Decimal	0	0	0		☐	☐	☐	☐	Partial Payment ...	T	PPAMNT			
OtherDedAmount	☐	Edm.Decimal	0	0	0		☐	☐	☐	☐	Other Deduction ...	T	ODAMNT			
OtherDedReason	☐	Edm.String	0	0	0		☐	☐	☐	☐	Other Deduction ...	T	ODRESN			

14. In the left-hand tree structure, right-click on **Data Model** and choose **Create -> Entity Type**.
 15. Give the entity type a name as 'Return'
 16. After creating the entity type, you can add properties (fields/attributes) that correspond to the attributes of your data model.

Name	Is Key	Edm Core Type	Prec.	Scale	Max ...	UnitCreat...	Upda...	Sorta...	Nulla...	Filt.	Label	La...	Co...	ABAP Fi...	A...	Se
Type	☒	Edm.String	0	0	1		☐	☐	☐	☐	Message type	T	TYPE			
Id	☐	Edm.String	0	0	20		☐	☐	☐	☐	Message Class	T	ID			
Number	☐	Edm.String	0	0	3		☐	☐	☐	☐	Message Number	T	NUMBER			
Message	☐	Edm.String	0	0	220		☐	☐	☐	☐	Message Text	T	MESSA...			
MessageV1	☐	Edm.String	0	0	50		☐	☐	☐	☐	Message Variable	T	MESSA...			
MessageV2	☐	Edm.String	0	0	50		☐	☐	☐	☐	Message Variable	T	MESSA...			
MessageV3	☐	Edm.String	0	0	50		☐	☐	☐	☐	Message Variable	T	MESSA...			
MessageV4	☐	Edm.String	0	0	50		☐	☐	☐	☐	Message Variable	T	MESSA...			

17. Create an association by right clicking on Associations→ create and enter the details as given below.

Create Association

Association NameHeaderToGLAcc

Principal Entity

Entity Type NameDoc_Header

Cardinality1

☒ Create related Navigation Property

Navigation Propertyto_GLAcc

Dependent Entity

Entity Type NameAccountGL

Cardinality1..n

☐ Create related Navigation Property

Navigation Property

18. After entering the details click on next and select the field to establish the relationship.

Referential Constraints			
Principal Entity	Principal Key	Dependent Entity	Dependent Property
Doc_Header	DocumentNumber	AccountGL	DocumentNumber
Doc_Header	CompanyCode	AccountGL	CompanyCode

19. Create an association by right clicking on Associations→ create and enter the details as given below.

Wizard Step 1 of 3: Create Association

Create Association

Association NameHeaderToItem

Principal Entity

Entity Type NameDoc_Header

Cardinality1

☒ Create related Navigation Property

Navigation Propertyto_Item

Dependent Entity

Entity Type NameAparItem

Cardinality1..n

☐ Create related Navigation Property

Navigation Property

20. After entering the details click on next and select the field to establish the relationship.

Referential Constraints			
Principal Entity	Principal Key	Dependent Entity	Dependent Property
Doc_Header	DocumentNumber	AparItem	DocumentNumber
Doc_Header	CompanyCode	AparItem	CompanyCode

21. Create an association by right clicking on Associations→ create and enter the details as given below.

Wizard Step 1 of 3: Create Association

Create Association

Association Name: Response

Principal Entity	Dependent Entity
Entity Type Name: Doc_Header	Entity Type Name: Return
Cardinality: 1	Cardinality: []
☒ Create related Navigation Property	☐ Create related Navigation Property
Navigation Property: To_Return	Navigation Property: []

22. After entering the details click on next and select the field to establish the relationship.

Referential Constraints			
Principal Entity	Principal Key	Dependent Entity	Dependent Property
Doc_Header	CompanyCode	Return	Type
Doc_Header	DocumentNumber	Return	MessageV1

23. After defining entity types and services, generate runtime objects using **Service Builder**, this will generate the necessary classes in the backend.

Runtime Artifacts				
Name	Generated Artifact Type	Program ID	Object Type	Object Name
ZAPI_JE_CLEAR_MDL	Registered Model	R3TR	IWMO	ZAPI_JE_CLEAR_MDL
ZAPI_JE_CLEAR_SRV	Registered Service	R3TR	IWSV	ZAPI_JE_CLEAR_SRV
ZCL_ZAPI_JE_CLEAR_DPC	Data Provider Base Cla	R3TR	CLAS	ZCL_ZAPI_JE_CLEAR_...
ZCL_ZAPI_JE_CLEAR_DPC_EXT	Data Provider Extensio	R3TR	CLAS	ZCL_ZAPI_JE_CLEAR_...
ZCL_ZAPI_JE_CLEAR_MPC	Model Provider Base Cl	R3TR	CLAS	ZCL_ZAPI_JE_CLEAR_...
ZCL_ZAPI_JE_CLEAR_MPC_EXT	Model Provider Extensio	R3TR	CLAS	ZCL_ZAPI_JE_CLEAR_...

24. Redefine the method “/iwbep/if_mgw_appl_srv_runtime~create_deep_entity” and add the code within the Method & Endmethod given as below.

25. METHOD /iwbep/if_mgw_appl_srv_runtime~create_deep_entity.

DATA: BEGIN OF ls_payload.

INCLUDE TYPE zcl_zapi_je_clear_mpc=>ts_doc_header.

DATA: to_glacc TYPE TABLE OF zcl_zapi_je_clear_mpc=>ts_accountgl,

to_item TYPE TABLE OF zcl_zapi_je_clear_mpc=>ts_aparitem,

to_return TYPE TABLE OF zcl_zapi_je_clear_mpc=>ts_return,

END OF ls_payload.

DATA(lcl) = NEW cl_fins_je_clearing_req_hdlr().

DATA: lv_entity_set_name TYPE /iwbep/mgw_tech_name,

ls_docheader TYPE cl_fdc_clearing_document_inf=>ty_clearing_header,

```

lt_accountgl TYPE cl_fdc_clearing_document_inf=>tty_gl_item_to_be_clrd, "TYPE TABLE OF
F tty_gl_item_to_be_clrd,
lt_aparitem TYPE cl_fdc_clearing_document_inf=>tty_apar_item_to_be_clrd, "TYPE TABLE
E OF ty_apar_item_to_be_clrd,
lv_test_run TYPE abap_bool,
lt_return TYPE bapirettab, "TYPE TABLE OF bapiret2,
lv_rejected TYPE abap_bool.

```

```

DATA(exception) = NEW /iwbep/cx_mgw_busi_exception( ).
DATA(msg_container) = exception->get_msg_container( ).

```

* Get Entity Set Name

```
lv_entity_set_name = io_tech_request_context->get_entity_set_name( ).
```

```

CASE lv_entity_set_name.
WHEN 'DocHeaderSet'.

```

```

io_data_provider->read_entry_data(
IMPORTING
es_data = ls_payload ).

```

```

ls_docheader-bukrs = ls_payload-bukrs.
ls_docheader-belnr = ls_payload-belnr.
ls_docheader-blart = ls_payload-blart.
ls_docheader-bldat = ls_payload-bldat.
ls_docheader-budat = ls_payload-budat.
ls_docheader-monat = ls_payload-monat.
ls_docheader-wwert = ls_payload-wwert.
ls_docheader-usnam = ls_payload-usnam.
ls_docheader-xblnr = ls_payload-xblnr.
ls_docheader-bktxt = ls_payload-bktxt.
ls_docheader-waers = ls_payload-waers.
ls_docheader-kursf = ls_payload-kursf.
ls_docheader-auglv = ls_payload-auglv.

```

```
lv_test_run = ls_payload-test_run.
```

```

LOOP AT ls_payload-to_glacc ASSIGNING FIELD-SYMBOL(<fs_glacc>).
APPEND VALUE #( bukrs = <fs_glacc>-bukrs
belnr = <fs_glacc>-belnr
gjahr = <fs_glacc>-gjahr
buzei = <fs_glacc>-buzei
hkont = <fs_glacc>-hkont
ppamtdc = <fs_glacc>-ppamnt
odamtdc = <fs_glacc>-odamnt
odreasoncode = <fs_glacc>-odresn
) TO lt_accountgl.
ENDLOOP.

```

```
LOOP AT ls_payload-to_item ASSIGNING FIELD-SYMBOL(<fs_item>).
```

```

APPEND VALUE #( bukrs      = <fs_item>-bukrs
                koart      = <fs_item>-koart
                konko      = <fs_item>-konko
                gjahr      = <fs_item>-gjahr
                belnr      = <fs_item>-belnr
                buzei      = <fs_item>-buzei
                ppamtdc    = <fs_item>-ppamntdc
                cdamtdc    = <fs_item>-cdamtdc
                cdpercentage = <fs_item>-cdpercentage
                odamtdc    = <fs_item>-odamntdc
                odreasoncode = <fs_item>-rstgr
                ) TO lt_aparitem.
ENDLOOP.

CALL METHOD lcl->if_fins_je_clearing_req_hdlr~post
EXPORTING
  is_docheader = ls_docheader
  it_accountgl = lt_accountgl
  it_aparitem  = lt_aparitem
  iv_test_run  = lv_test_run
IMPORTING
  *   es_posted_document =
      et_msg             = lt_return
RECEIVING
  rv_save_rejected = lv_rejected.
IF line_exists( lt_return[ type = 'E' ] ).
CALL FUNCTION 'BAPI_TRANSACTION_ROLLBACK'.
LOOP AT lt_return ASSIGNING FIELD-SYMBOL(<fs_ret>).
  msg_container->add_message(
    iv_msg_type = /iwbsp/cl_cos_logger=>success
    iv_msg_id   = <fs_ret>-id
    iv_msg_number = <fs_ret>-number
    iv_msg_text  = <fs_ret>-message
    iv_add_to_response_header = abap_true ).
ENDLOOP.
RAISE EXCEPTION exception.
ELSE.
CALL FUNCTION 'BAPI_TRANSACTION_COMMIT'
EXPORTING
  wait = abap_true.
LOOP AT lt_return ASSIGNING <fs_ret>.
  msg_container->add_message(
    iv_msg_type = /iwbsp/cl_cos_logger=>success
    iv_msg_id   = <fs_ret>-id
    iv_msg_number = <fs_ret>-number
    iv_msg_text  = <fs_ret>-message
    iv_add_to_response_header = abap_true ).
ENDLOOP.
ENDIF.
copy_data_to_ref(

```

```
EXPORTING
  is_data = ls_payload
CHANGING
  cr_data = er_deep_entity
).
```

ENDCASE.

ENDMETHOD.

26. After implementing the logic, register and activate the service using the **/IWFND/MAINT_SERVICE** transaction and test the service in the SAP Gateway Client (/IWFND/GW_CLIENT).

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](#)
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