

Setup Guide – CDS Views

Direct Supplier Down Payment Request using SAP
Build Process Automation or Workflow Management

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Overview

This document provides information about configuring the CDS Views required in the workflow content package **Direct Supplier Down Payment Request** application.

Custom CDS View and Custom communication scenario

To call the APIs related to **Direct Supplier Down Payment Request**, 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 Supplier Down payment details and value help used in Direct Supplier Down Payment Request 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 provide below with screen shots below.

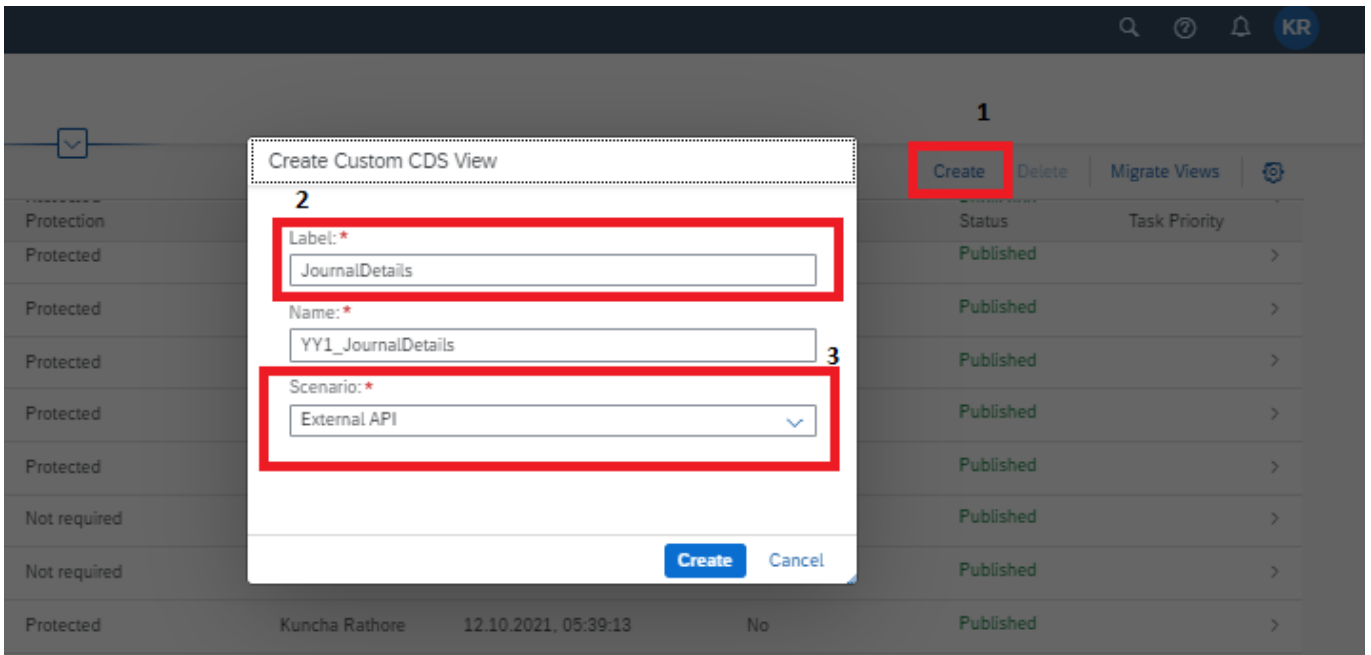
Creation of CDS View Journal details (YY1_JournalDetails)

Package Name: SAP S/4HANA Cloud for Finance

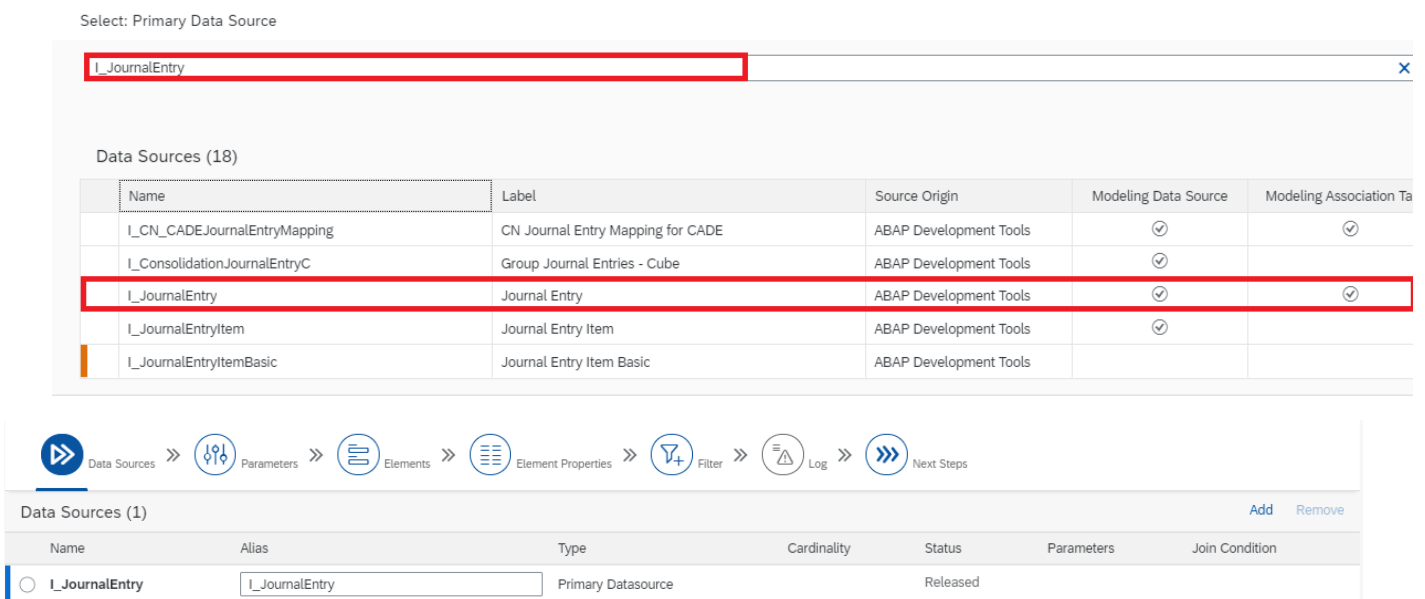
Label: JournalDetails

Name: YY1_JournalDetails

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 as JournalDetails and 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 I_JournalEntry 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 source which opens pop-up. Provide the Standard CDS view name YY1_JournallItemDetail in search field and Click "OK".

Navigation: Data Sources » Parameters » Elements » Element Properties » Filter » Log » Next Steps

Data Sources (1)

Name	Alias	Type	Cardinality	Status	Parameters	Primary Data Source	Associated Data Sources
<input type="radio"/> I_JournalEntry	I_JournalEntry	Primary Datasource		Released		<input checked="" type="checkbox"/>	

Select: Associated Data Source

YY1_JournalItemDetail


Data Sources (1)

<input type="checkbox"/>	Name	Label	Source Origin
<input type="checkbox"/>	YY1_JournalItemDetail	JournalItemDetail	Custom CDS Views

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.

Navigation: Data Sources » Parameters » Elements » Element Properties » Filter » Log » Next Steps

Data Sources (2)

Name	Alias	Type	Cardinality	Status	Parameters	Join Condition
<input type="radio"/> I_JournalEntry	I_JournalEntry	Primary Datasource		Released		
<input type="radio"/> YY1_JournalItemDetail	_YY1_JournalItemDetail	Associated Datasource		Published		

Define Join Conditions: Perform the join condition between these data sources as listed below:
 Name: I_JournalEntry
 Alias: _YY1_JournalItemDetail
 Cardinality: Zero or More[0..*]

Data Source Field	Operator	Value Type	Value
CompanyCode	Equal	Field	I_JournalEntry.CompanyCode
FiscalYear	Equal	Field	I_JournalEntry.FiscalYear
AccountingDocument	Equal	Field	I_JournalEntry.AccountingDocument

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

JournalDetails

Dependencies: 1 (Compatible Changes Allowed)



Elements (26) Search Add Delete

<input type="checkbox"/>	Key	Alias	Type	Path	Label	Status
<input type="checkbox"/>	<input checked="" type="radio"/>	CompanyCode	CHAR (4)	I_JournalEntry.CompanyCode	Company Code	
<input type="checkbox"/>	<input checked="" type="radio"/>	FiscalYear	NUMC (4)	I_JournalEntry.FiscalYear	Fiscal Year	
<input type="checkbox"/>	<input checked="" type="radio"/>	AccountingDocument	CHAR (10)	I_JournalEntry.AccountingDocument	Journal Entry	
<input type="checkbox"/>	<input type="radio"/>	DocumentDate	DATS (8)	I_JournalEntry.DocumentDate	Journal Entry Date	
<input type="checkbox"/>	<input type="radio"/>	PostingDate	DATS (8)	I_JournalEntry.PostingDate	Posting Date	
<input type="checkbox"/>	<input type="radio"/>	DocumentReferenceID	CHAR (16)	I_JournalEntry.DocumentReferenceID	Document Reference ID	
<input type="checkbox"/>	<input type="radio"/>	Supplier	CHAR (10)	_YY1_JournalItemDetail.Supplier	Supplier	

Elements

Calculation

Parameters

Select: Elements

Items

<input type="checkbox"/>	Alias	Key	Type	Label	Status
<input type="checkbox"/>	LedgerGLLineItem	<input checked="" type="checkbox"/>	CHAR (6)	Journal Entry Item	
<input type="checkbox"/>	Ledger	<input checked="" type="checkbox"/>	CHAR (2)	Ledger	
<input type="checkbox"/>	Supplier		CHAR (10)	Supplier	
<input type="checkbox"/>	SupplierName		CHAR (35)	Name	
<input checked="" type="checkbox"/>	SpecialGLCode		CHAR (1)	Special G/L	
<input checked="" type="checkbox"/>	TaxCode		CHAR (2)	Tax Code	
<input type="checkbox"/>	FinancialAccountType		CHAR (1)	Account Type	
<input type="checkbox"/>	> _CompanyCode		Association [1..1]	_CompanyCode	
<input type="checkbox"/>	> _FinancialAccountType		Association [0..1]	_FinancialAccountType	

Selected Items and Conditions (2)

OK Cancel

Elements (26) Search Add Delete

<input type="checkbox"/>	Key	Alias	Type	Path	Label	Calculation	Status
<input type="checkbox"/>	<input type="radio"/>	TaxCode	CHAR (2)	I_JournalEntry._JournalEntryItem.TaxCode	Tax Code		
<input type="checkbox"/>	<input type="radio"/>	SourceLedger	CHAR (2)	_YY1_JournalItemDetail.SourceLedger	Source Ledger		
<input type="checkbox"/>	<input type="radio"/>	AccountingDocument_1	CHAR (10)	_YY1_JournalItemDetail.AccountingDocument	Journal Entry		
<input type="checkbox"/>	<input type="radio"/>	LedgerGLLineItem	CHAR (6)	_YY1_JournalItemDetail.LedgerGLLineItem	Journal Entry Item		
<input type="checkbox"/>	<input type="radio"/>	CompanyCodeName	CHAR (25)	I_JournalEntry._CompanyCode.CompanyCodeName	Company Name		
<input type="checkbox"/>	<input type="radio"/>	AccountingDocumentHea...	CHAR (25)	I_JournalEntry.AccountingDocumentHeaderText	Document Header Text		
<input type="checkbox"/>	<input type="radio"/>	SpecialGLCode	CHAR (1)	I_JournalEntry._JournalEntryItem.SpecialGLCode	Special G/L		
<input type="checkbox"/>	<input type="radio"/>	NetAmountsPosted_1	CHAR (1)	I_JournalEntry.NetAmountsPosted	Net Amount Is Posted		
<input type="checkbox"/>	<input type="radio"/>	AmountInTransactionCurr...	CURR (23.2)	I_JournalEntry_AddLdgerOplAcctgDocItem.AmountInTransactionCurrency	Amount in Transaction Cu...		

Publish Check Preview Cancel Inventory

8. Click on Publish button present on Footer.

Creation of CDS Journal Item Detail (YY1_JournalItemDetail)

Package Name: SAP S/4HANA Cloud for Finance

Label: JournalItemDetail

Name: YY1_JournalItemDetail

Repeat step 1 to 3 as mentioned above in Journal details CDS

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

For step 5, select I_Supplier_VH as Associated data source.

For step 6, use below join condition.

Cardinality: Zero or One[0..1]

Data Source Field	Operator	Value Type	Value
Supplier	Equal	Field	I_JournalEntryItem.Supplier

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

Key	Alias	Path	Label
ON	SourceLedger	I_JournalEntryItem.SourceLedger	Source Ledger
ON	CompanyCode	I_JournalEntryItem.CompanyCode	Company Code
ON	FiscalYear	I_JournalEntryItem.FiscalYear	Fiscal Year
ON	AccountingDocument	I_JournalEntryItem.AccountingDocument	Journal Entry
ON	LedgerGLLineItem	I_JournalEntryItem.LedgerGLLineItem	Journal Entry Item
ON	Ledger	I_JournalEntryItem.Ledger	Ledger
OFF	Supplier	I_JournalEntryItem.Supplier	Supplier
OFF	SupplierName	_I_Supplier_VH.SupplierName	Name
OFF	SpecialGLCode	I_JournalEntryItem.SpecialGLCode	Special G/L
OFF	TaxCode	I_JournalEntryItem.TaxCode	Tax Code
OFF	FinancialAccountType	I_JournalEntryItem.FinancialAccountType	Account Type
OFF	CreationDateTime	I_JournalEntryItem.CreationDateTime	Creation Time
OFF	_SourceLedger	I_JournalEntryItem._SourceLedger	_SourceLedger
OFF	_SourceLedgerText	I_JournalEntryItem._SourceLedgerText	_SourceLedgerText
OFF	_CompanyCode	I_JournalEntryItem._CompanyCode	_CompanyCode
OFF	_FiscalYear	I_JournalEntryItem._FiscalYear	_FiscalYear
OFF	_JournalEntry	I_JournalEntryItem._JournalEntry	_JournalEntry
OFF	_Ledger	I_JournalEntryItem._Ledger	_Ledger

F			
OF F	_LedgerText	I_JournalEntryItem._LedgerText	_LedgerText
OF F	_Supplier	I_JournalEntryItem._Supplier	_Supplier
OF F	_SupplierText	I_JournalEntryItem._SupplierText	_SupplierText
OF F	_SpecialGLCode	I_JournalEntryItem._SpecialGLCode	_SpecialGLCode
OF F	_FinancialAccountType	I_JournalEntryItem._FinancialAccountType	_FinancialAccountType
OF F	_FinancialAccountTypeText	I_JournalEntryItem._FinancialAccountTypeText	_FinancialAccountTypeText

Repeat step 8 by publishing CDS View

Creation of CDS view Company Code (YY1_CompanyCode)

Package Name: SAP S/4HANA Cloud for Finance

Label: JournalItemDetail

Name: YY1_JournalItemDetail

Repeat step 1 to 3 as mentioned above in Journal Detail 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 Element's tab as shown in below table

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

Repeat step 8 by publish company code CDS View

Creation of CDS View plant (YY1_Plant)

Package Name: SAP S/4HANA Cloud for Manufacturing

Label: Plant

Name: YY1_Plant

Repeat step 1 to 3 as mentioned above in Journal Details with Scenario as Extenal API

For 4th step select primary data source as I_PlantStdVH 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 Element's tab as shown in below table

Key	Alias	Path	Label
ON	Plant	I_PlantStdVH.Plant	Plant
OFF	PlantName	I_PlantStdVH.PlantName	Plant Name

Repeat step 8 by publish CDS View

Creation of CDS View supplier (YY1_Supplier)

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

Label: Supplier

Name: YY1_Supplier

Repeat step 1 to 3 as mentioned above in Journal Details with Scenario as Extenal API
For 4th step select primary data source as I_Supplier 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 Element's tab as shown in table.

Key	Alias	Path	Label
ON	Supplier	I_Supplier.Supplier	Supplier
OFF	SupplierName	I_Supplier.SupplierName	Name of Supplier
OFF	SupplierAccountGroup	I_Supplier.SupplierAccountGroup	Account Group

Repeat step 8 by publish CDS View

Creation of CDS View Currency (YY1_Currency)

Package Name: SAP S/4HANA Cloud for Finance

Label: Currency

Name: YY1_Currency

Repeat step 1 to 3 as mentioned above in Journal details with Scenario as Extenal API
For 4th step select primary data source as I_CurrencyText 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 Element's tab as shown in below table

Key	Alias	Path	Label
ON	Language	I_CurrencyText.Language	Language Key
ON	Currency	I_CurrencyText.Currency	Currency
OFF	CurrencyName	I_CurrencyText.CurrencyName	Description

Repeat step 8 by publishing the CDS View

Creation of CDS View SpecialGLCode (YY1_SpecialGLCode)

Package Name: SAP S/4HANA Cloud for Finance

Label: SpecialGLCode

Name: YY1_SpecialGLCode

Repeat step 1 to 3 as mentioned above in Journal details with Scenario as External API
 For 4th step select primary data source as I_SpecialGLCodeText 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 Element's tab as shown in below table

Key	Alias	Path	Label
ON	FinancialAccountType	I_SpecialGLCodeText.FinancialAccountType	Account Type
ON	SpecialGLCode	I_SpecialGLCodeText.SpecialGLCode	Special G/L ind.
ON	Language	I_SpecialGLCodeText.Language	Language Key
OFF	SpecialGLCodeName	I_SpecialGLCodeText.SpecialGLCodeName	Name
OFF	SpecialGLCodeLongName	I_SpecialGLCodeText.SpecialGLCodeLongName	Description

Repeat step 8 by publishing the CDS View

Creation of CDS View PurchasingDocumentItem (YY1_PurchasingDocumentItem)

Package Name: SAP S/4HANA Cloud for Sourcing and Procurement

Label: PurchasingDocumentItem

Name: YY1_PurchasingDocumentItem

Repeat step 1 to 3 as mentioned above in Journal details with Scenario as External API
 For 4th step select primary data source as I_PurchasingDocumentItemStdVH 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 Element's tab as shown in below table

Key	Alias	Path	Label
ON	PurchasingDocument	I_PurchasingDocumentItemStdVH.PurchasingDocument	Purchasing Document
ON	PurchasingDocumentItem	I_PurchasingDocumentItemStdVH.PurchasingDocumentItem	Item

Repeat step 8 by publishing the CDS View

Creation of CDS View taxcode(YY1_taxcode)

Package Name: SAP S/4HANA Cloud for Finance

Label: taxcode

Name: YY1_taxcode

Repeat step 1 to 3 as mentioned above in Journal details with Scenario as External API
 For 4th step select primary data source as I_TaxCodeText 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 Element's tab as shown in below table

Key	Alias	Path	Label
ON	TaxCalculationProcedure	I_TaxCodeText.TaxCalculationProcedure	Procedure

ON	TaxCode	I_TaxCodeText.TaxCode	Tax Code
ON	Language	I_TaxCodeText.Language	Language Key
OFF	TaxCodeName	I_TaxCodeText.TaxCodeName	Tax Code Name

Repeat step 8 by publishing the CDS View

Creation of CDS View Paymentblock(YY1_Paymentblock)

Package Name: SAP S/4HANA Cloud for Finance

Label: Paymentblock

Name: YY1_Paymentblock

Repeat step 1 to 3 as mentioned above in Journal details with Scenario as External API
For 4th step select primary data source as I_PaymentBlockingReasonText 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 Element's tab as shown in below table

Key	Alias	Path	Label
ON	Language	I_PaymentBlockingReasonText.Language	Language Key
ON	PaymentBlockingReason	I_PaymentBlockingReasonText.PaymentBlockingReason	Item Payment Block
OFF	PaymentBlockingReasonName	I_PaymentBlockingReasonText.PaymentBlockingReasonName	Payment Block Reason

Repeat step 8 by publishing the CDS View

Creation of CDS View PaymentMethod(YY1_PaymentMethod)

Package Name: SAP S/4HANA Cloud for Finance

Label: PaymentMethod

Name: YY1_PaymentMethod

Repeat step 1 to 3 as mentioned above in Journal details with Scenario as External API
For 4th step select primary data source as I_PaymentMethodText as shown in step 4 above

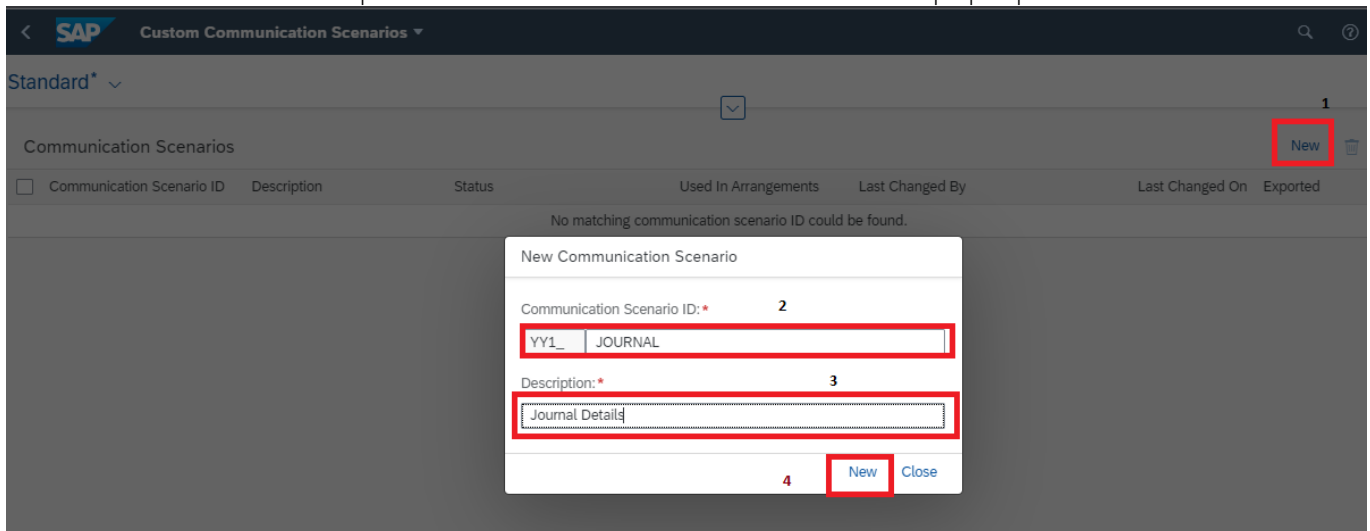
Steps 5 & 6 are not required as it is single data source
Repeat step 7 by selecting required fields in Element's tab as shown in below table

Key	Alias	Path	Label
ON	Country	I_PaymentMethodText.Country	Country/Region Key
ON	PaymentMethod	I_PaymentMethodText.PaymentMethod	Payment Method
ON	Language	I_PaymentMethodText.Language	Language Key
OFF	PaymentMethodDescription	I_PaymentMethodText.PaymentMethodDescription	Description

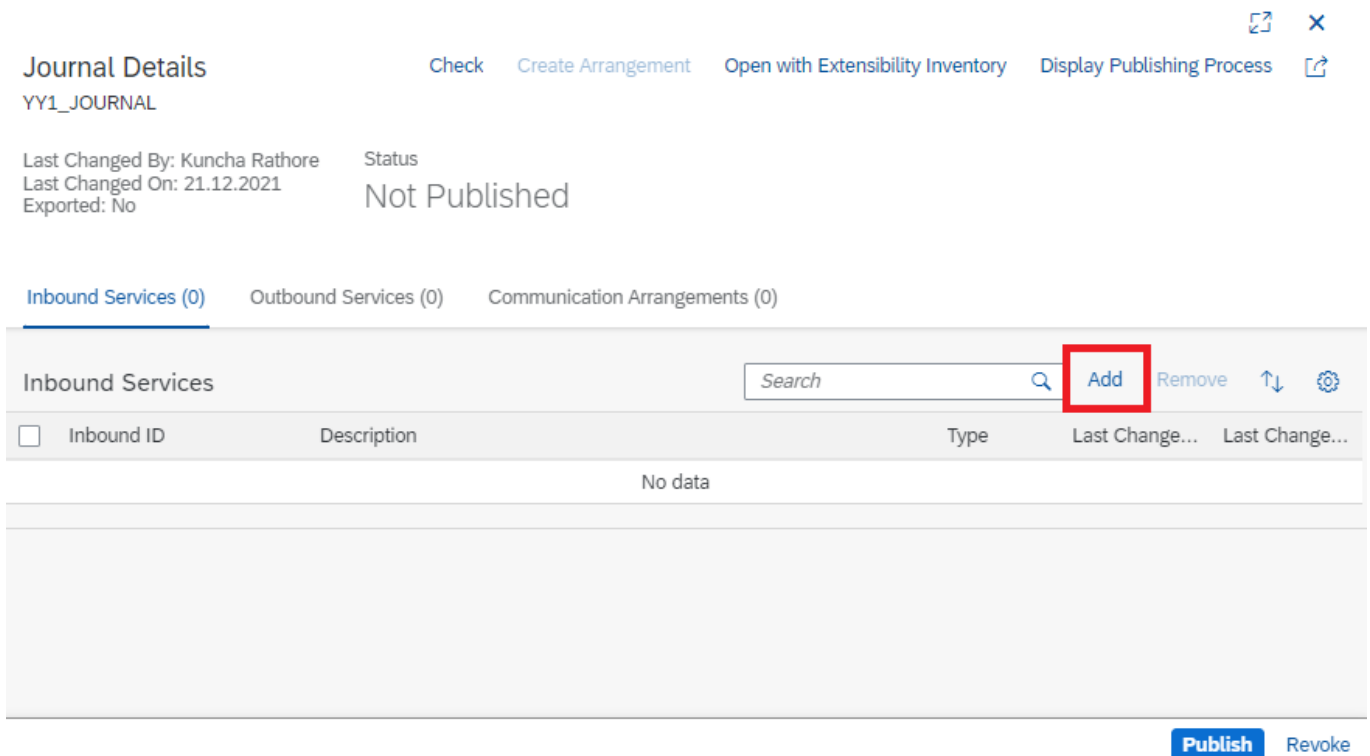
Repeat step 8 by publishing the CDS View

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 open pop-up window provide communication scenario ID as Journal and description as Journal Details and click New on pop-up button.



4. Click on Add button in Inbound services and select required CDS from Add services pop-up and click on OK button.



Select CDS Views as mentioned below:

- YY1_COMPANYCODE_CDS
- YY1_CURRENCY_CDS
- YY1_JOURNALDETAILS_CDS
- YY1_PAYMENTBLOCK_CDS
- YY1_PAYMENTMETHOD_CDS
- YY1_PURCHASINGDOCUMENTITEM_CDS
- YY1_SPECIALGLCODE_CDS
- YY1_SUPPLIER_CDS
- YY1_TAXCODE_CDS

Once you click on Add, below popup appears where you can select the above mentioned cds

Add Services

Selected: 1		
<input checked="" type="checkbox"/>	Inbound ID	Description
<input checked="" type="checkbox"/>	YY1_COMPANYCODE_CDS	CompanyCode

OK Cancel

SAP Custom Communication Scenarios
Search, Refresh, Help, KR

Journal Details Check Create Arrangement Open with Extensibility Inventory Display Publishing Process

YY1_JOURNAL Status

Last Changed By: Kuncha Rathore Not Published

Last Changed On: 21.12.2021

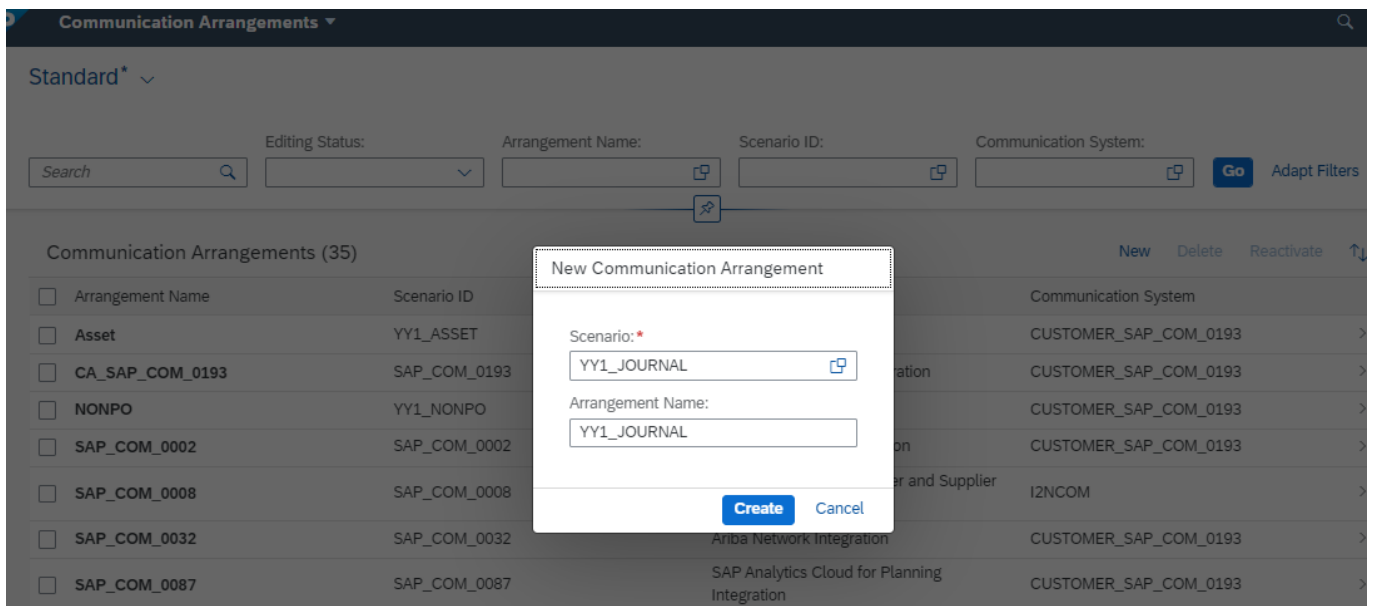
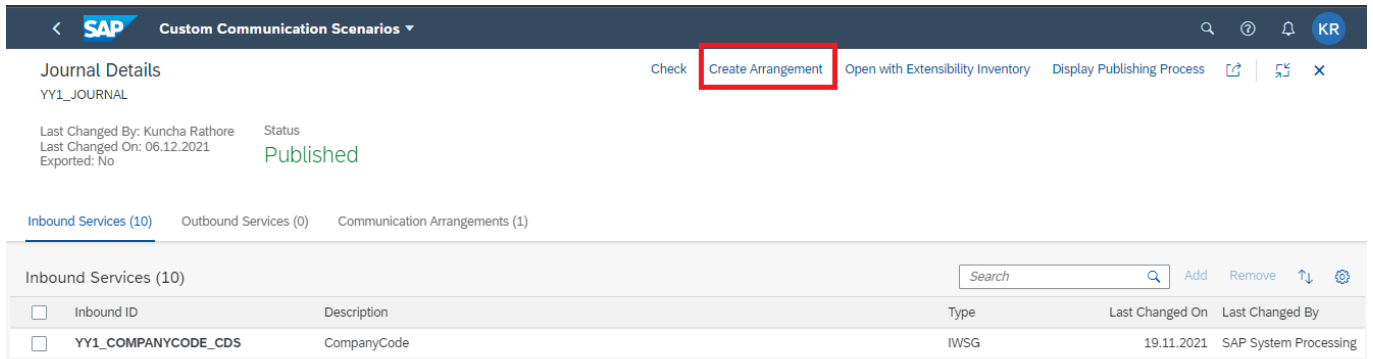
Exported: No

[Inbound Services \(8\)](#) [Outbound Services \(0\)](#) [Communication Arrangements \(0\)](#)

Inbound Services (8)					
<input type="checkbox"/>	Inbound ID	Description	Type	Last Changed On	Last Changed By
<input type="checkbox"/>	YY1_COMPANYCODE_CDS	CompanyCode	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_CURRENCY_CDS	Currency	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_JOURNALDETAILS_CDS	JournalDetails	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_PAYMENTBLOCK_CDS	Paymentblock	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_PAYMENTMETHOD_CDS	PaymentMethod	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_PURCHASINGDOCUMENTITEM_CDS	PurchasingDocumentItem	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_SPECIALGLCODE_CDS	SpecialGLCode	IWSG	21.12.2021	SAP System Processing
<input type="checkbox"/>	YY1_SUPPLIER_CDS	Supplier	IWSG	21.12.2021	SAP System Processing

[Publish](#) [Revoke](#)

- Click on Publish button present on Footer, it will enable the Create Arrangement button after successful publish.
- Click on Create Arrangement button, it will navigate to new Fiori app Communication arrangement by opening a pop-up of new communication arrangement. Click on Create button.



- Enter Communication system and Username created in SAP S/4HANA system. Refer here to know how to create [Communication user](#) and [Communication System](#)

SAP Communication Arrangements

YY1_JOURNAL

Scenario ID: YY1_JOURNAL Draft Last Changed By: Kuncha Rathore Editing Status: Draft
 Scenario: Journal Details Draft Last Changed On: 21.12.2021, 13:27:34

Common Data

Arrangement Name: YY1_JOURNAL Own System: OM3JORB
 Communication System: * New API-URL: https://my313154-api.s4hana.ondemand.com

Inbound Communication Supported Authentication Methods

User Name: * Authentication Method:

Inbound Services

Service	Application Protocol	Service URL/Service Interface	WSDL/Service Metadata	Additional Properties
JournalDetails	OData V2	https://my313154-		

- Save the Communication Arrangement and status should change to Active.
 For more details, refer here how to create [Communication Arrangement](#)