



PUBLIC

SAP S/4HANA

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Setting Up *Integration to SAP S/4HANA Cloud for Enterprise Contract Assembly (20Q)*

Content

1	Purpose	3
2	Preparation	4
2.1	Required Information	4
2.2	Prerequisites	4
3	Configuration in SAP Cloud Platform	5
3.1	Subscribe to Enterprise Contract Assembly	5
3.2	Create OAuth access credentials	5
3.3	Configure the cloud Connector	6
4	Configuration in SAP S/4HANA On- Premise System	8
4.1	Communication Configurations	8
	Configure OAuth 2.0 Client	8
	Configure RFC Destinations	9
	Configure RFC Destinations for different Integration Scenario	10
4.2	Maintain Configuration Data using SPRO	11
	Enable Switch for Enterprise Contract Assembly	11
	Define Technical Types for Linked Object Types	11
	Define Areas	12
	Define Document Variables (Optional)	13
4.3	Extensibility	20
	BAdI	20
5	Error Handling	22

1 Purpose

This document describes additional configuration steps that must be carried out by customers to activate S/4HANA On-Premise Integration with Enterprise Contract Assembly. Since these configuration steps are customer-specific, they cannot be delivered by SAP, and must be carried out by the customer.

2 Preparation

2.1 Required Information

During the course of the activities described in this guide, you will be required to enter or provide system-specific information. To ensure a smooth and efficient integration to SAP S/4HANA, we recommend that you have the information listed in the table below at hand prior to starting the integration process.

Type of Information Required:	Your Data
SAP S/4HANA On-Premise system	System details such as URL, Username, and Password
SCP Legal Content Assembly System	System details such as URL, Username, and Password

2.2 Prerequisites

1. Scope item 1XV - [SAP S/4HANA for Enterprise Contract Management](#) is the prerequisite of scope item 20Q, so it's mandatory to activate 1XV.
2. You need to complete the onboarding and corresponding configuration steps on SAP Cloud Platform before start the configuration steps mentioned in this guide. For more information, please refer to [Administration Guide](#) on the page [SAP S/4HANA Cloud for Enterprise Contract Assembly](#).

3 Configuration in SAP Cloud Platform

Before you get the OAuth access credentials, you should enable the Legal Content Assembly service as a service in the SCP account of the customer.

3.1 Subscribe to Enterprise Contract Assembly

Procedure

If you've already subscribed to Legal Content Assembly, continue with the step [Create OAuth access credentials \[page 5\]](#).

1. In your subaccount, navigate to *Subscriptions*.
2. Choose *Legal Content Assembly*.
3. Choose *Subscribe*.

3.2 Create OAuth access credentials

Procedure

If you have a PaaS account:

1. Open *Service Marketplace*.
2. Create a service instance of type '*legal-content-assembly*', plan '*standard*'.
3. Navigate to the created service instance.
4. In the instance page choose the *Service Keys* tab.
5. Choose *Create Service Key*.
6. Enter a name in the dialog box.
7. Choose *Save*.
8. Note the clientid and clientsecret.

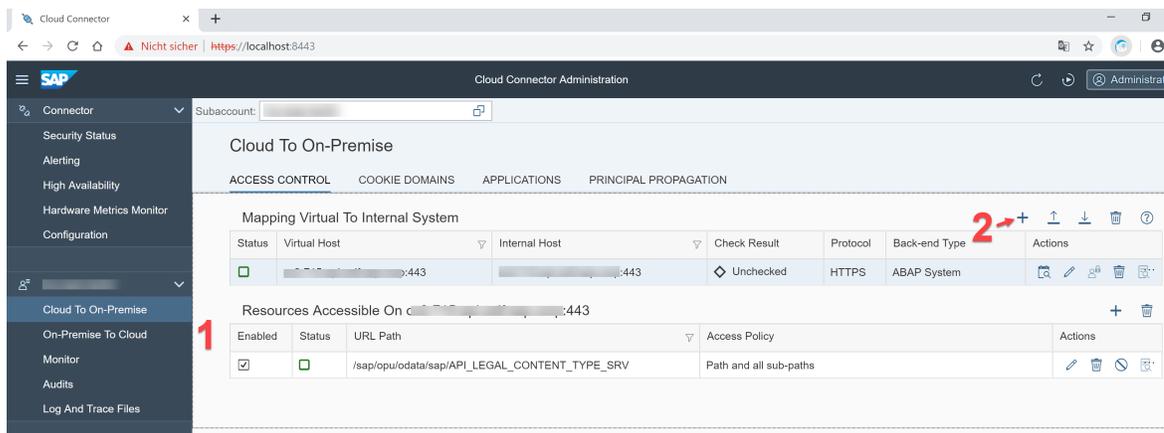
If you have a SaaS account:

Create a service key for service *'legal-content-assembly'*; plan *'standard'* via service manager (details unclear as of now)

3.3 Configure the cloud Connector

Procedure

1. Configuration of the cloud connector
In SCP a customer needs an instance of the cloud connector to enable the communication from a SCP app to a S/4 system. A general documentation of how to install and configure the cloud connector can be found [here](#).
2. Log on to the cloud connector with the user *Administrator*.
3. Select the subaccount section and ensure that the subaccount is selected for which the connection should be available
4. Create a new connection.
 1. Choose *Cloud to On-Premise*.
 2. Choose the plus icon to create a new connection as you can see on the screenshot below.



3. In the dialog box, choose as *Back-end Type ABAP System* and choose *Next*.
4. As *Protocol* choose *HTTPS* and choose *Next*.
5. As *Internal Host* enter the host of your S/4HANA System and *443* as *Internal port*. Then choose *Next*.
6. Enter a name for the Virtual Host for example *S4-System* and choose *Next*.
7. Choose *None* as *Principal Type* and choose *Next*.
8. Enter a Description, for example *Connection to Legal Content Management* and choose *Next*.
9. Select the checkbox *Check Internal Host* and choose *Finish*.
10. Under the Resource Accessible on <System> choose *Add Resource*.
11. Enter */sap/opu/odata/SAP/API_LEGAL_CONTENT_TYPE_SRV/* as URL Path. Choose *Enabled* as *Access Policy*.

5. Definition of the Destination in the cloud cockpit

1. Log on to the cloud cockpit and choose destination for the Subaccount which should subscribe the Legal Content Assembly
2. Choose *New Destination* to define a destination with the following properties.

Field:	Value
Name	ErpQueryEndpoint
Authentication	Basic Authentication
Type	On Premise in case you have an On Premise S/4HANA System otherwise Cloud
URL:	The url to the virtual host which was defined in the cloud connector. The specified port has to be the one defined in the cloud connector.

4 Configuration in SAP S/4HANA On-Premise System

4.1 Communication Configurations

Purpose

The authentication between SAP S/4HANA On-Premise and the Enterprise Contract Assembly services on SCP can occur through OAuth 2.0 client.

You can perform the following steps to set up the authentication:

- Configure OAuth Client
- Request OAuth 2.0 Access token

Prerequisites

Before doing the configuration in SAP S/4HANA On-Premise, you need to have the following authorization:

- S_RFC_ADM with at least activities 01, 02 and 03 (To create a RFC destination)
- S_OA2C_ADM with at least activities 01, 02 and 03 (To configure OAuth 2.0 Client)

4.1.1 Configure OAuth 2.0 Client

The OAuth 2.0 Client needs to be configured with the OAuth client information of the Enterprise Contract Assembly service (Chapter 3)

Procedure

1. Log on to the S/4HANA system and execute transaction OA2C_CONFIG.
2. To create an OAuth 2.0 client, choose [Create](#).
3. Enter the following entries and choose [OK](#).

Field Name	Value
OAuth 2.0 Client Profile	SAP_COM_0437
OAuth 2.0 Client ID	ClientID (BrokerID) generated in the step Create OAuth access credentials [page 5]
Configuration Name	<name> (Example ECA Integration)

4. On the Details screen, enter the following details:

Field Name	Value
Client Secret	Client Secret generated in the step Create OAuth access credentials [page 5]
Authorization Endpoint	OAuth 2.0 Authorization Endpoint generated in the step Create OAuth access credentials [page 5] <ol style="list-style-type: none"> 1. Remove the part 'https://' from the URL 2. Add the '/authorize' at the end of the URL
Token Endpoint	Copy the URL from the Authorization Endpoint and replace ' /authorize ' with ' /token '
Client Authentication	Basic
Resource Access Authentication	Header Field
Selected Grant Type	Client Credentials

5. Save your changes.

4.1.2 Configure RFC Destinations

In this step, you create the RFC Destinations for HTTP connection to the Enterprise Contract Assembly System.

Procedure

1. Log on to the S/4HANA system and execute transaction SM59.
2. Choose [Create](#).
3. Enter the following entries:

Field Name	Value
RFC Destination	<name> (Example: ECA_Integration)
Connection Type	G (HTTP Connection to External Server)
Description 1	Enterprise Contract Assembly Integration

4. On the [Technical Settings](#) tab, enter the following entries:

Field Name	Value
Host	URL of your Enterprise Contract Assembly System Get Host Name from your Enterprise Contract Management System
Port	443

5. On the *Logon and Security* tab, enter the following entries:

Field Name	Value
SSL	Active
SSL	Certificate DEFAULT SSL Client (Standard)

6. Choose *Save*.

Note

Create new RFC Destination for DocuSign UI by repeating the above steps. This RFC Destination will be useful to enable the Navigation from S4H to DocuSign Envelope.

4.1.3 Configure RFC Destinations for different Integration Scenario

In this step, you configure the RFC Destinations for the different Enterprise Contract Assembly scenarios

Procedure

1. Log on to the S/4HANA system and execute transaction *SPRO*.
2. Navigate to configuration activity: **Legal Content Management** > *Integration* > *Integration with Legal Content Assembly* > *Assign RFC Destination*
3. On the Change view create a new entry for each integration scenario that you want to use.

Field Name	Value
Integration Scenario	Legal Content Assembly
API RFC Destination	<RFC Destination> generated in the step Configure RFC Destinations [page 9]
UI RFC Destination	<RFC Destination> generated in the step Configure RFC Destinations [page 9]
Configuration	Enter the Configuration Name of the OAuth Configuration generated in the step Configure OAuth 2.0 Client [page 8]

4. Choose [Save](#).

4.2 Maintain Configuration Data using SPRO

Prerequisites

You have a valid user with enough Authorizations to SPRO Transaction to modify the configuration data.

4.2.1 Enable Switch for Enterprise Contract Assembly

It mandatory to enable the switch for Enterprise Contract Assembly. Once you enable the switch, you can create virtual documents using the Enterprise Contract Assembly. Procedure

Procedure

1. Log on to the SAP S/4HANA On Premise system with the user which satisfies the prerequisites.
2. Execute the transaction `SPRO`.
3. On the Application toolbar of screen. Choose [SAP Reference IMG](#).
4. Navigate to the [Configuration Activity: Enterprise Contract Management](#) > [Integration](#) > [Integration with Enterprise Contract Assembly](#) > [Enable Switch for Enterprise Contract Assembly](#).
5. Choose [New Entries](#).
6. Fill the following fields:
 1. *Business Function ID*: `LCM_CONTENTASSEMBLY`
 2. *Ftr State*: `Active`
7. Choose [Save](#)

4.2.2 Define Technical Types for Linked Object Types

For the existing or new technical types for linked object types after the integration switch is activated, a new column *Variable Name* is visible in the view [Maintain Linked Object Technical Type: Overview](#), you can define the variable name for the technical types.

Procedure

1. Log on to the SAP S/4HANA On Premise system with the user which satisfies the prerequisites.
2. Execute the transaction `SPRO`.
3. On the Application toolbar of screen. Choose *SAP Reference IMG*.
4. Navigate to the **► Configuration Activity: Enterprise Contract Management ► General Settings ► Define Technical Types for Linked Object Types ►**
5. Choose *New Entries* to create a new entry or skip this step for existing entries.
6. Fill the following fields, for example:

LnkObj.TTp	Variable Name
SQ	SalesQuotationDetail
SO	SalesOrderDetail
RFQ	RequestForQuotationDetail
RECN	RealEstateContractDetail
PO	PurchaseOrderDetail
PC	PurchaseContractDetail
CPC	CentralPurchaseContractDetail

7. Choose *Save*.

4.2.3 Define Areas

The Enterprise Contract Assembly Area is required to request a virtual document in Enterprise Contract Management via Enterprise Contract Assembly. If the mapping between the area and the combination of Profile, Entity Type (Main Organization Type), and Entity ID (Main Organization) is missing, the creation of a Virtual Document fails. The request for a Virtual Document where the Area for Enterprise Contract Assembly doesn't exist in the Enterprise Contract Assembly system, will also fail.

Prerequisite

Ensure you have defined the Profile, Entity Type (Main Organization Type), and Entity ID (Main Organization) in the Customizing activity *Define Profiles*.

Procedure

1. Log on to the SAP S/4HANA On Premise system with the user which satisfies the prerequisites.

2. Execute the transaction SPRO.
3. On the Application toolbar of screen. Choose *SAP Reference IMG*.
4. Navigate to the Configuration Activity: **Legal Content Management** > **Integration** > **Integration with Legal Content Assembly** > **Define Areas** .
5. Choose *New Entries*.
6. Fill the following fields:
 1. *LCA Area ID*: <Select value using F4 Search Help, available in field>, for example, **Gen001**
 2. *Profile*: <Select value using F4 Search Help, available in field>, for example, **Generic**
 3. *Entity Technical Type*: <Select value from drop down search Help, available in field>, for example, **Company Code**
 4. *Entity Minimum*: <Select value using F4 search help, available in field> , for example, **1010**
 5. *Entity Maximum*: <Select value using F4 search help, available in field> , for example, **1710**
7. Choose *Save*

Example:

LCA Area ID	Profile	Entity Technical Type	Entity Min	Entity Max
GENE030006	GENERIC	Company Code	0006	
GENE030007	GENERIC	Company Code	0070	0010

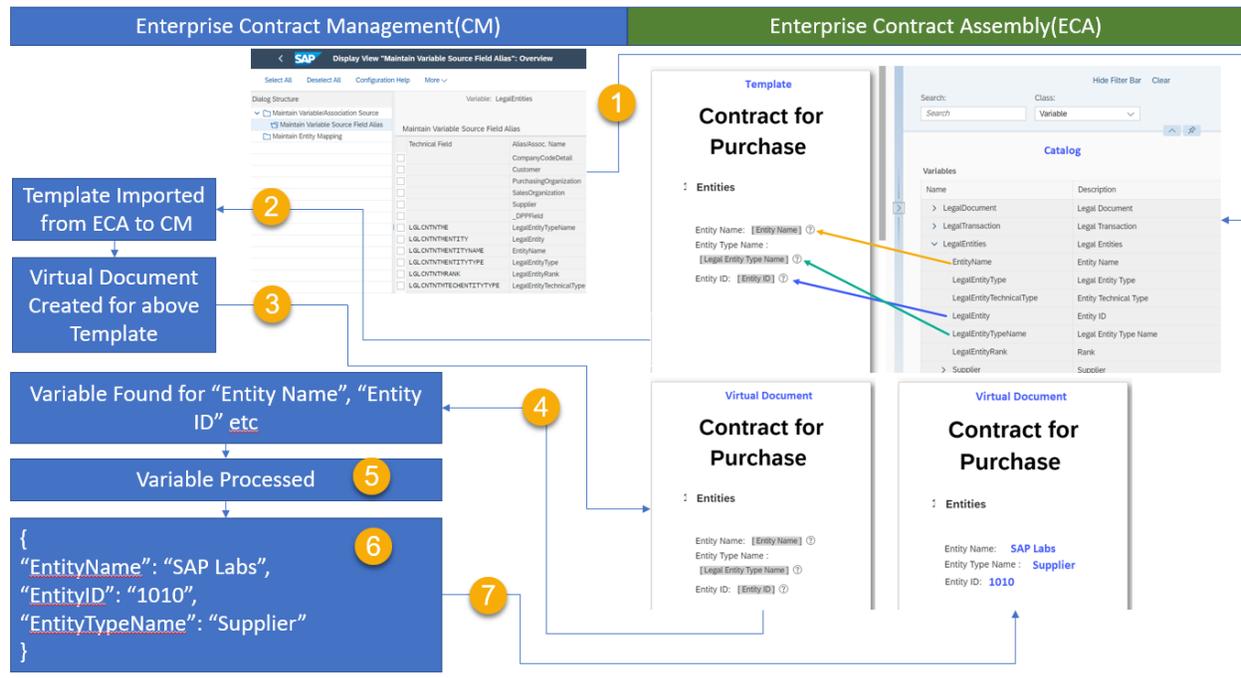
4.2.4 Define Document Variables (Optional)

In this configuration activity, you can define the variable mapping, source CDS Views, and aliases for the document variables.

i Note

It is an optional step, which is only required if you want to customize the document variables during the virtual document management.

Purpose



Legal Transaction contains various information regarding Legal Transaction, Legal Document (Documents Stamps), Legal Entities (Supplier, Customer, Company Code, Sales Organization, Purchase Organization), Internal Contacts, External Contacts, Categories, and Linked Objects (Purchase Order, Sales Order, Central Contract etc.). This information is essential in virtual documents of different contract types. In a Sales Contract, for example, the Customer and Supplier information of fields such as Name, Address and so on are necessary to sign the deal. Hence while creating a template of a virtual document in Enterprise Contract Assembly (ECA), it is important to provide the field information that can be fetched from Enterprise Contract Management (CM) system.

During the creation of a template, the Template Manager chooses the field *Entity Name* from the catalog in the ECA system. The template is then imported into the CM system and a virtual document is created from this template. Once the virtual document is created, the ECA system sends a request for additional information from the CM system, so that the same is reflected in the virtual document.

The CM system provides possible field values to the ECA system, to be included in the template from the catalog. The CM system provides a few standard or basic fields to the ECA system. If the Template Manager needs any additional fields to populate in the catalog, the same need to be configured additionally in the CM system and the fields will reflect in the catalog in the ECA system.

i Note

In order to demonstrate the whole system workflow with higher clarity, the detailed functions of step 1-7 on the figure above are listed below.

Step 1: In this step, the fields (LegalEntity, EntityName, LegalEntityType) and their respective associations (Supplier, CompanyCodeDetail, Customer) and so on are configured in the CM system.

Step 2: The Template Manager creates a template and includes these fields. Once the template is released from the ECA system, it is imported to the CM system. The fields are then transferred to ECA system as a catalog.

Step 3: A virtual document is created from the imported template.

Step 4: After successfully creating the virtual document, the ECA system requests the fields like Entity Name, Entity ID, Legal Entity Type Name and so on.

Step 5: On receiving the variable request, the CM system processes the variables.

Step 6: The system prepares the details in a JSON format.

Step 7: The system sends the information back to the ECA system. The field values received by the ECA system will reflect in the virtual document.

Enterprise Contract Management (CM)

Enterprise Contract Assembly (ECA)

[SAP Implementation Guide](#) > [Enterprise Contract Management](#) > [Integration](#) > [Integration with Enterprise Contract Assembly/Variables](#) > [Define Document Variables](#)

Dialog Structure	Variable	LegalEntities
<ul style="list-style-type: none"> Maintain Variable/Association Source Maintain Variable Source Field Alias Maintain Entity Mapping 	Maintain Variable Source Field Alias	
	Technical Field	Alias/Assoc. Name
		CompanyCodeDetail
		Customer
		PurchasingOrganization
		SalesOrganization
		Supplier
		_DPPField
	LGLCNTNME	LegalEntityTypeName
	LGLCNTMENTITY	LegalEntity
	LGLCNTMENTITYNAME	EntityName
	LGLCNTMENTITYTYPE	LegalEntityType
	LGLCNTMTRANK	LegalEntityRank
	LGLCNTMTECHENTITY?	LegalEntityTechnicalType

Variables

Name	Description
> LegalDocument	Legal Document
> LegalTransaction	Legal Transaction
<ul style="list-style-type: none"> LegalEntities 	Legal Entities
1 EntityName	Entity Name
2 LegalEntityType	Legal Entity Type
3 LegalEntityTechnicalType	Entity Technical Type
4 LegalEntity	Entity ID
5 LegalEntityTypeName	Legal Entity Type Name
6 LegalEntityRank	Rank
7 > Supplier	Supplier
8 > PurchasingOrganization	Purchasing Organization
9 > SalesOrganization	Sales Organization
10 > CompanyCodeDetail	Company Code Detail

Procedure

The CM system provides *Define Document Variables* configurations for various options.

1. Maintain Variable/Association Source

This view represents the list of possible *Variable* and the source *CDS View Name* from where the data will be fetched and the possible fields from those CDS views can be used in *Maintain Variable Source Field Alias*.

Column Details

Variable

It describes the Variable name under which the possible fields can be maintained. Instead showing the technical CDS Name, that can be represents with a meaningful name.

CDS View Name

It contains the CDS view name from which the list of fields can be used in Catalog and the value of those fields will be fetched from the CDS mentioned here.

Variable Description

A detail description of Variable need to give here.

Actions

Preview Variables

This action displays the complete variable structure in a hierarchical order with all *Association*, *Technical Field* details.

2. ► *Maintain Variable/Association Source* ► *Maintain Variable Source Field Alias* ►

This view represents both underlying field and association of each Variable. For instance, Variable *LegalEntities* have fields including *LGLCNTNTMENTITY*, *LGLCNTNTMENTITYNAME*, *LGLCNTNTMENTITYTYPE* and associations *Customer*, *Sales Organization*, *Supplier* and so on, which are again variables (for example, *Customer* is a variable defined in *Maintain Variable/Association Source*).

Column Details

Technical Field

It represents field which holds the value during variable calculation. It can be a direct field from *CDS View Name* for which value will be directly fetched from CDS or it can be a free text for which BAdI LCM_LT_LCA_CUST_VAR_FIELDS need to implement.

This field need be blank if an *Association* is defined under a *Variable*.

Alias/Assoc. Name

This field need to be filled with any free text if the *Technical Field* is filled. If a association is defined then it must be a *Variable* name, which need to create before it filled here.

E.g. for *Technical Field LGLCNTNTMENTITYNAME* any alias name can be given which is *EntityName* in this case. For association *Supplier*, *Technical Field* need to be blank. Alias name for association *Supplier* is a *Variable* and it need to create first before assigning this as association of *LegalEntities*.

Association Path

This is an optional field need to fill if a *Technical Field* is present under an *Association* of any CDS. E.g. LGLCNTNTME is present under association _LCMENTITYTYPETEXT of CDS C_LEGALTRANSACTIONENTITYTP.

Field/Association

This field need to fill as if a *Technical Field* is filled. Else, if *Technical Field* is blank, this means it is a association need to be specified if it is Single/Multiple association. E.g. a single Legal Entity in Legal Transaction can associate to a Single Supplier/Customer/Company etc.

Ref. Curr/Quan Field

If a *Technical Field* is of *Type Amount* or *Quantity*, the reference *Currency* or *Unit Alias* field name need to filled here. Before filling *Ref. Curr/Quan Field*, the *Alias* field need to be saved first.

Data Type

It specifies the *Technical Field* type. E.g. *EntityName* is a *Character* type and *LegalEntityRank* is a 2 Byte Integer type.

Length

It specifies the length of *Technical Field*.

Dec.Places

It stores the decimal places presents in a *Technical Field*

Mandatory

If a *Technical Field* need to mark as mandatory, if another *Technical Field* value is dependent on this. E.g. *LegalEntity* is marked as mandatory to get the value of *EntityName*.

Display Order

It represents the order in which Catalog in ECA need to display.

Inactive

This field need to mark, if any *Technical Field* need not to display in Catalog at ECA side instead of Deleting in CM side.

i Note

If any Technical field is exposed to ECA earlier and not needed any more. However, those fields used in any Templates and Virtual documents created from those templates, it is advisable to mark such field as Inactive instead delete from CM Variable configuration.

Long Text

It describes the *Technical Field* or *Association* details.

i Note

If a *Technical Field* is chosen from F4 value help or chosen from *Import Variable Fields*, *Technical Field*, *Alias/Assoc. Name*, *Data Type*, *Length*, *Dec.Places*, *Long Text* will be filled automatically. It is advisable not to change *Data Type*, *Length*, *Dec. Places* if the *Technical field* is directly present in the CDS. *Alias Name*, *Long Text*, *Display Order* can be changed.

Actions

Import Variable Fields

While *New Entries* button clicked for ► *Maintain Variable/Association Source* ► *Maintain Variable Source Field Alias* ►, this action helps to import several *Technical field* presents in a CDS specified in ► *Maintain Variable/Association Source* ► *CDS View Name* ► column.

3. Maintain Entity Mapping

This view represents the root variable details under which all association and fields need to be calculated. From CM Variables with *Seq. ID* from 1001~1999 has provided and Customer can create their own variable from 2000~4999 with Z* namespace.

Column Details

Seq. ID

It is just a unique no. *Seq. ID* from 1000~1999 reserved for SAP and *Seq. ID* from 2000~4999 can be used by Customer.

Variable

It represents the Root Variable name, which must be present in *Maintain Variable/Association Source*. Do not fill the association names for a variable which is defined in ► *Maintain Variable/Association Source* ► *Maintain Variable Source Field Alias* ►.

Class Name

A sub class of CL_LCM_VAR_CALCULATION_SUPER need to provide here. Method IF_LCM_VAR_CALCULATION~CALULATE_VARIABLE() need to return a valid JSON in the form of "<Variable>" : [{ "Property" : "Value" }, { "Property" : "Value" }] or "<Variable>" : { "Property" : "Value" }

Display Order

It represents display order of Root variable in ECA Catalog.

Cardinality

It represents if one or many records possible for a root Variable. E.g. LegalTransaction can always be always one for a Legal document, where as many LegalEntities can be possible for a Legal document.

Inactive

If any Variable is provided by standard but customer need to define their own variable or need not to display in ECA catalog, this field can be marked v.

If any Variable is exposed to ECA Catalog and Template and further Virtual Documents created and later point of time. If the Variable is not needed, instead of deleting, it is advisable to mark as v.

4. Use Cases

- **Use Case 1.1: How to change display order of a root variable**

By using the order provided by this solution, you can ensure the catalog root entity is displayed in an order.

Solution

Go to view [Maintain Entity Mapping](#) and change [Display Order](#) field with your choice.

For example, if you want to display [LegalEntities](#) in the first order and [LegalTransaction](#) in the second order, change the display order field with 10 and 20 respectively.

- **Use Case 1.2: How to change display order of an alias or association**

It is important to display the alias or association of a variable in an order.

Solution

Go to view ► [Maintain Variable/Association Source](#) ► [Maintain Variable Source Field Alias](#) ► for a variable and change the [Display Order](#) column values according to your choice of order.

For example, For the variable [LegalEntities](#), if you want to display the aliases [LegalEntity](#) and [EntityName](#) in the first and second order, and the association [Supplier](#) in the third order, change the display order to 10, 20 and 30 respectively.

- **Use Case 1.3: How to hide a root variable from displaying in catalog**

To exclude the root variable [LegalDates](#) from the catalog of ECA.

Solution

Go to view [Maintain Entity Mapping](#) and mark the Inactive field of the variable [LegalDates](#) as .

- **Use Case 1.4: How to exclude variable alias/association from catalog**

To exclude specific alias or association from the catalog of ECA.

Solution

Go to ► [Maintain Variable/Association Source](#) ► [Maintain Variable Source Field Alias](#) ► and mark the [Inactive](#) flag as of the alias or association.

- **Use Case 1.5: How to add a field that is delivered through standard CDS into catalog**

CM has included a few standard fields for a variable, which are associated with a CDS. You may need to add a few more fields from the standard variable into the catalog.

Solution

Go to ► [Maintain Variable/Association Source](#) ► [Maintain Variable Source Field Alias for a Variable](#) ► and choose [New Entries](#). Use the value help for the [Technical Fields](#) or choose [Import Variable Fields](#) to see the possible direct fields from an associated CDS for a variable and add it as a new alias.

For example, the variable [BusinessPartner](#) is associated with CDS [I_BUSINESSPARTNER](#) and aliases like [BusinessPartnerName](#), [FirstName](#), [LastName](#) and so on are provided by CM. If you want to add the [BUSINESSPARTNERFULLNAME](#) that is a part of CDS [I_BUSINESSPARTNER](#), you can use this solution to add this new entry.

- **Use Case 1.6: How to add a custom field where the data is determined by custom logic**

To add a transient field that is not present in CDS associated to a variable.

Solution

If you need to calculate a field that is not directly present in CDS, you can use a Business Add-In to calculate the field.

For example, in the variable [PurchaseOrderDetail](#), the [Supplier](#) is present directly in CDS [I_PURCHASEORDERAPI01](#). However, the [SupplierFullName](#) field is not present in the CDS and you must calculate it based on the Supplier.

Add the technical field [SUPPLIERFULLNAME](#) first with alias [SupplierFullName](#). Select the default field/association as [Field](#). Choose the [Data Type](#) as [CHAR](#) Character String and enter the length as 220. Provide the long text as [Supplier Name](#) and mark the [Supplier](#) field as Mandatory.

Implement the BAdI LCM_LT_LCA_CUST_VAR_FIELDS with filter values 'VARIABLENAME = PurchaseOrderDetail'.

- **Use Case 1.7: How to add a completely new variable**

To add a new custom variable when the variable provided by CM is not enough.

Solution

In addition to a variable provided by CM, if you need further associations or want to define a completely new variable, you can add it through a new Z* variable.

For example, to enhance the variable *BusinessPartner* with more associations or to define a new variable of any custom type:

1. Go to *Maintain Variable/Association Source* and create a new variable starting with Z*. Enter the *CDS View Name* linked to this variable and provide a *Variable Description*.
2. Choose a variable defined in *Maintain Variable/Association Source* and go to *Maintain Variable Source Field Alias*. Add a *Technical Field and Alias* and the corresponding *Data Type, Length, Dec. Places* and so on.
3. If you want to define a new association, first add it in *Maintain Variable/Association Source* and later in *Maintain Variable Source Field Alias*, as an association for the variable with which it should be associated.
4. Go to *Maintain Entity Mapping*, define the Root Variable name, and enter the sub-class name of *CL_LCM_VAR_CALCULATION_SUPER*, which can be a Z* class.

A valid JSON in the form of "<Variable>": [{ "Property" : "Value" }, { "Property" : "Value" }] or "<Variable>": { "Property" : "Value" } needs to return from the Class respectively.

○ **Use Case 1.8: How to add a customized linked object**

To define a new association to the variable *LinkedObjects*.

Solution

1. Create a new variable in *Maintain Variable/Association Source* and its *CDS View Name*.
2. Create an association under the variable *LinkedObjects*.
3. In the configuration for *Define Technical Types for Linked Object Types*, mention the newly created variable name for the corresponding *Linked Object Technical Type*.
4. Implement the BAdI *LCM_LT_LCA_CUST_LINKED_OBJ* with *VARIABLENAME = <Newly created Z* Variable>*. A valid JSON in the form of "<Variable>": [{ "Property" : "Value" }, { "Property" : "Value" }] or "<Variable>": { "Property" : "Value" } needs to return from BAdI.

○ **Use Case 1.9: How to add association to standard variables**

To add an association to the variable *BusinessPartner* other than the *Address* that is provided by CM.

Solution

It is not possible to add further associations to standard variables. You must create your own variable with Z* namespace and write your own logic to fill the Z* variables. Additionally, if you want to exclude the variable *BusinessPartner* from the catalog, you can mark the *Inactive* field as v in ► *Maintain Variable/Association Source* ► *Maintain Variable Source Field Alias for a Variable* ► for variable association ► *ExternalContacts* ► *BusinessPartner* ►.

4.3 Extensibility

4.3.1 BAdI

4.3.1.1 LCM_LT_LCA_CUST_VAR_FIELDS

Purpose

The extensibility option allows you to calculate additional custom fields which are not present in the CDS view of the Variable.

Prerequisites

You have a valid user with enough Authorizations to perform the development.

Procedure

Implement the BAdI: LCM_LT_LCA_CUST_VAR_FIELDS to calculate additional fields which are not part of the CDS view after maintaining the same in the Alias table.

4.3.1.2 LCM_LT_LCA_CUST_LINKED_OBJ

Purpose

The extensibility option is used to define additional custom linked objects, while calculating the variable for virtual documents.

Prerequisites

You have a valid user with enough Authorizations to perform the development.

Procedure

Implement the BAdI: LCM_LT_LCA_CUST_LINKED_OBJ to add custom Linked Object Types

5 Error Handling

Please be informed that it could take up to one hour until the Integration Job is running after the activation of the Scope Item.

In Case of:

1. The Update of the status form the Virtual Document in Legal Content Assembly is not reflected in Legal Content Management System for more than 10 minutes
2. The new Virtual Document version that is created in Legal Content Assembly is not reflected to Legal Content Management for more than 10 minutes
3. The released Legal Content Assembly Template is not available in the Legal Content Management Application for more than 1 Hour

Solution:

1. Check the Application log for object LCM, subobject LCA and Severity Error for messages
2. 1. If any error occurs in the result list check the description and try to resolve the issue
3. Check the Application Log for any termination
4. Check the Fiori Notification, which is send to the Team's responsible to the Legal Transaction
5. Check if the Legal Content Assembly System is running

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