SAP Best Practices



SAP CPQ June 2022 English

SAP CPQ Integration with SAP S/4HANA: Basic Integration setup using SAP Cloud Integration (3ZQ)

Configuration Guide

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Revision	Change Date	Description
0	June,2019	
1	June, 2022	

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Icons

Icon	Meaning	
Δ	Caution	
	Example	
\wp	Note	
	Recommendation	
(III)	Syntax	

Typographic Conventions

Type Style	Description	
Example text	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options.	
	Cross-references to other documentation.	
Example text	Emphasized words or phrases in body text, titles of graphics and tables.	
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.	
Example text	Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools.	
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as ${\tt F2}$) or the ${\tt ENTER}$ key.	
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.	
<example text=""></example>	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.	

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SAP CPQ Integration with SAP S/4HANA: Basic Integration setup using SAP Cloud Integration: **Configuration Guide (3ZQ)**

Purpose

The purpose of this document is to describe the procedure to configure the Basic Integration between SAP S/4HANA and SAP CPQ using SAP SAP Cloud Integration (CPI).

Network Security team takes the responsibility of preparing the network environment across different systems and its security aspects.

Important:

If you have any queries or feedback on this document, please create a ticket for the CSN component SV-RDS-CFC

2 Preparation

2.1 Required Information

We recommend that the consultant performing the implementation has the following implementation and configuration knowledge:

- SAP S/4HANA
- SAP SAP Cloud Integration (CPI)
- SAP CPQ
- SAP CPS (optional)

2.2 Prerequisites

Before you set up SAP CPQ Integration with SAP S/4HANA, ensure that you have:

1. SAP CPQ instance.

Ensure that your SAP CPQ instance is in place before you start implementing SAP CPQ integration with SAP S/4HANA.

2. SAP S/4HANA System.

Ensure that your S/4HANA system is of 1809 release and latest release.

3. SAP SAP Cloud Integration tenant.

The SAP SAP Cloud Integration (CPI) Runtime URL is included in the SAP CPI provisioning e-mail.

URL. Example https://<tenant>-iflmap.hana.ondemand.com

4. SAP CPS instance (optional)

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Ensure that your SAP CPS instance is integrated to SAP S/4HANA system. And your configured products are replicated between SAP S/4HANA and SAP CPS.

Configuration

The following sections describes all the settings required for this scope item. These can be divided into below groups:

- Configuration in SAP S/4HANA
- Configuration in SAP SAP Cloud Integration (CPI)
- Configuration in SAP CPQ

3.1 Configuration in SAP S/4HANA

3.1.1 Create User

1. Access the following transaction:



2. On the *User Maintenance: Initial screen*, enter the following values:

Field Name	Value
User	CPQS4HINTEG

Choose Create.



4. On the Maintain User screen, maintain the following values and Choose Save.

Address tab page



5. Logon data tab page

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User Type	Communication Data
Password	<pre><password></password></pre>

1 Note

Ensure the user is assigned relevant authorizations to execute Idoc, web service messaging calls like external pricing and print preview.

6. Click Save.

3.1.2 Certificate Management in SAP S/4HANA

Prerequisite

- The customer network environment should be prepared. The SSL should be enabled on SAP S/4HANA ABAP Server. SAP S/4HANA Server/Client Certificates should be signed by the supported CA which is trusted by SAP Cloud Solution and SAP Cloud Managed Services.
- For preparing the network environment, network security team that takes care of the customer network is responsible.
- SSL needs to be enabled on SAP ABAP server by SAP Basis Consultant.
 - Note

Ensure all the certificates used are valid and are not expired.

For details refer to Note 510007 - Setting up SSL on Web Application Server **ABAP**

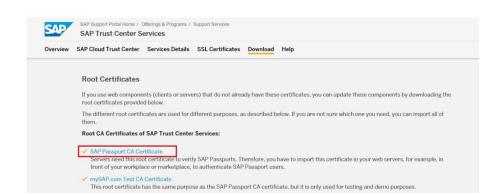
For requesting signed certificates by SAP, go to https://support.sap.com/tcs

- There are mainly two partners in the landscape, SAP side and Customer side.
- SAP Cloud Solution certificates are signed by SAP Passport CA or TC Trust Center.

3.1.2.1 Download ROOT CA Certificates

- 1. Go to https://support.sap.com/en/offerings-programs/support-services/trustcenter-services.html web site.
- 2. Navigate to Download → Root Certificates,
- 3. Download the SAP Passport CA Certificates and Save.

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We protect the download of the root certificates by using the Secure Sockets Layer (SSL) Protocol. SSL will provide you with an encrypted and

1 Note

Save the certificates in .cer format

4. Go to SAP Cloud Integration URL Ex: https://xxxxtmn.hci.int.sap.hana.ondemand.com/itspaces/ and Login with admin user. Navigate using the following path.

Monitor → Keystore under Manage Security



- 5. Download the ROOT Certificates of CPI with following names:
 - Baltimore CyberTrust Root
 - Verizon Public SureServer CA G14-SHA2
 - 1 Note

In case of error downloading certificates, go to Internet explorer ->Tools->Internet options->content -> Certificates -> Trusted Root Certification authorities). Export the relevant certificate from the list.

3.1.2.2 Maintain SSL Server Standard Trusted Cert List

1. In the SAP S/4HANA system access the following transaction:

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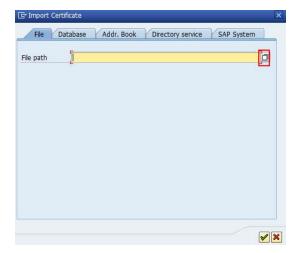
STRUST **Transaction Code**

2. Double-click SSL server standard PSE folder.

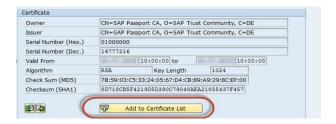


3. In the Certificate area, click the Import Certificate button to add the SAP Passport CA.





4. Add the imported certificate to the certificate list by clicking Add to Certificate List.



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5. Choose Save.



3.1.2.3 Maintain SSL System Client Cert and Trusted Cert List

1. Choose SSL client SSL Client(Standard) PSE folder



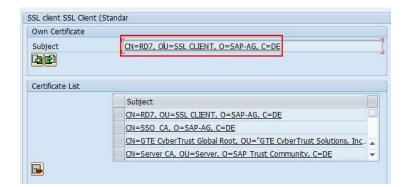
- 2. From Menu Path choose Certificate→Import to import the SAP Passport CA certificate
- 3. Switch from *Display* to *Change* mode.
- From Menu Path choose Edit→Add Certificate to add the imported certificate to the chosen certification list.
- 5. Repeat previous 2 steps for SAP Cloud Integration Trust Root CA Certificates.
- 6. Choose Save on the standard tool bar
 - Note

In case no supported CA signed client certificates for SAP S/4HANA is available. it could be downloaded from the SAP CPI Certificate store, and then imported into SAP Trust Manager for use.

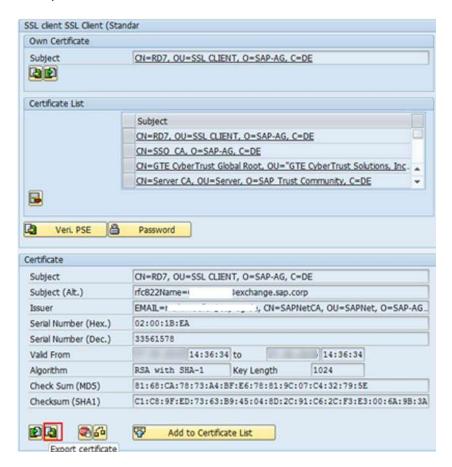
3.1.2.4 Export SAP S/4HANA Client Certificate

- 1. Expand SSL client SSL Client (Standard) PSE folder.
 - a. Double-click target instance in the folder.
- 2. Select the field Owner, in the Own Certificate section by double clicking.

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3. Click the Export button.



4. Save the certificate into a file with format Base64. For example, and named with S4HANAClient.cer.



1 Note

This exported client cert should be uploaded while configuring IFlow in CPI system.

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3.1.2.5 Mapping Cloud Connector Certificate to Integration **User in SAP S/4HANA**

Prerequisite

Obtain the SAP CPI client certificate from your administrator. The certificate is available when the tenant is provisioned by SAP. You can also receive it on creating an incident in the component for your respective SAP Middleware (LOD-CPI/LOD-PI).

Procedure

1. Access the transaction using one of the following navigation options:



- In the Maintain Table Views screen, enter VUSREXTID in the Table/View field.
- 3. Choose Maintain.



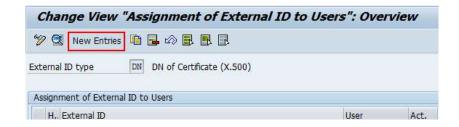
4. In the External ID type field, enter DN.



5. Choose New Entries.

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- 6. Next to the External ID field, choose Import.
- 7. Import the Cloud Connector certificate obtained from your administrator.

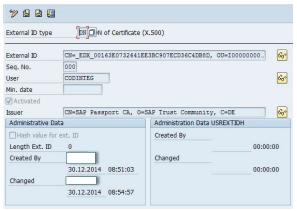


cloudconnectorclient.cer

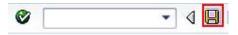
- 8. Enter the sequence number, by example 000.
- 9. In the *User* field, enter the technical S/4HANA user you have created in the S/4HANA system.

For example: CPQINTEG

10. Activate the user by checking the Activated field.



11. Click Save.



3.1.3 Release Inbound Interfaces

3.1.3.1Activate Inbound SOAP for IDoc

1. Access the following transaction:



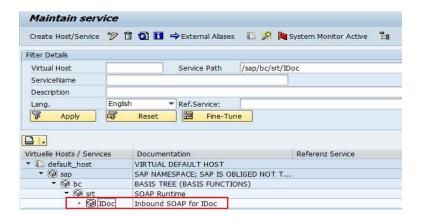
2. In the Service Path field enter /sap/bc/srt/IDoc.

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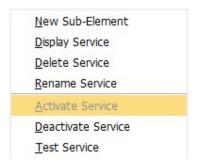




- 3. Choose Execute.
- 4. Check if the Service is Active; If not then right click the IDoc service and select Activate Service.



5. If it has been activated, it will be like below:



6. Otherwise you need to Activate Service.

3.1.3.2 Register Service for IDoc Inbound

1. Access the following transaction:



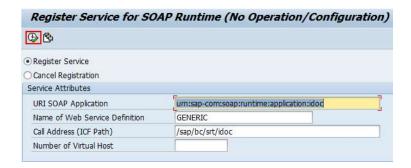
- 2. Select the Register Service radio button.
- 3. In the Service Attributes section, enter the following parameters:

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Parameter	Value
URI SOAP Application	urn:sap-com:soap:runtime:application:idoc
Name of Web Service Definition	GENERIC
Call Address (ICF Path)	/sap/bc/srt/idoc

4. Choose Execute.



5. Create a new Request for this action and input the short description with meaningful value.



6. Click Ok.



3.1.4 Create Business System for SAP S/4HANA

Purpose

This chapter describes the procedure to create a Business system that represents the SAP S/4HANA system.

We can perform this task in following way.

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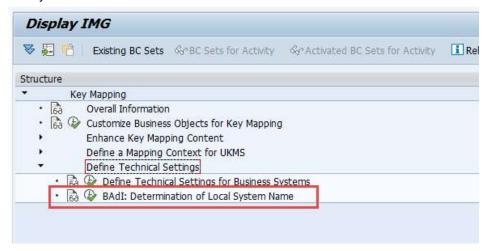


Procedure

Access the following transaction:

Transaction Code **IDMIMG**

- 2. Navigate to BAdI, Determination of Local System Name from Define Technical Settings.
- 3. Execute the BAdI, Determination of Local System Name to create a Local Business System.



Note

Check IMG Activity Documentation for more detail how to perform this task.

3.1.5 Define Logical System

Purpose

This describes the procedure to create a logical system that represents the SAP CPQ system in SAP S/4HANA system. Logical systems are defined as cross-client systems.

Procedure

1. Access the following transaction:

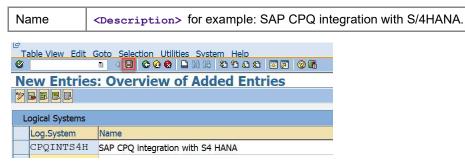


- 2. Choose New Entries.
- Create a logical system that identifies the on-demand system, as given in the table below: following:

Field	Entry
Logical System*	<le><logical cpq="" name="" of="" sap="" system="" tenant=""> EX: CPQINTS4H</logical></le>

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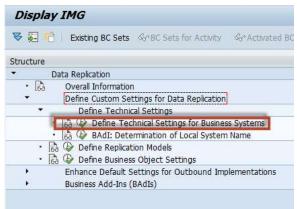
- Choose Save
- 5. Choose Ok to confirm the pop-up for saving the details in the transport request.

3.1.6 Business Partner Replication from SAP S/4HANA to SAP **CPQ**

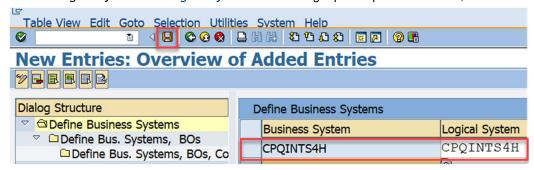
3.1.6.1 Configure Data Replication Framework

Procedure

- 1. Open transaction DRFIMG.
- Navigate to Define Custom Settings for Data Replication → Define Technical Settings → Define Technical Systems for Business Systems.



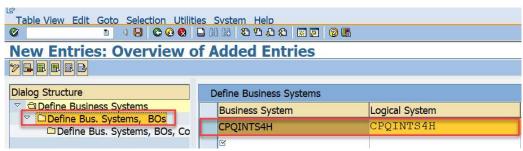
3. Choose New Entries to add Business System for SAP CPQ. Add Business System name as logical system and Logical System name using input help. Choose Save.



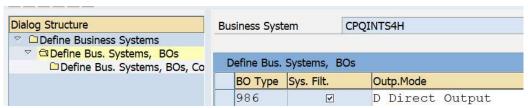
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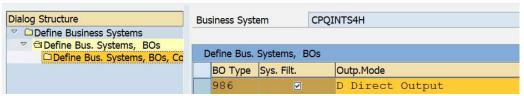
4. Select the Business System and double click on Define Bus. Systems, BOs in the Dialog structure.



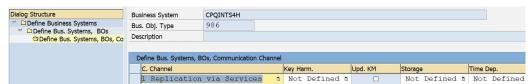
5. Choose New Entries and add BO Type 986 (Business Partner including relationships) using input help and check field Sys. Filt. In case this entry exists, skip the step.



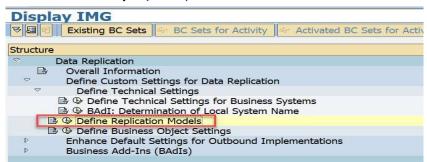
6. Select the entry BO type and double click on *Define Bus. Systems*, *BOs*, Communication Channel in the left dialog structure.



7. Choose New Entries to add the Communication Channel as 1 Replication via Services. In case the entry exists, skip this step.



- 8. Choose Save.
- 9. Navigate back.
- 10. Select the IMG activity Define Replication Models.



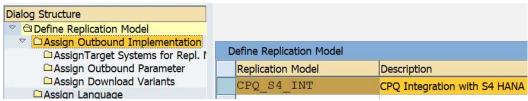
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11. Choose New Entries and define Replication Model Name and Description and Log days as 50.



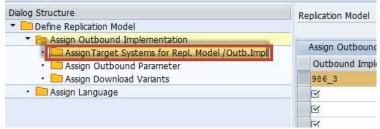
- 12. Choose Enter.
- 13. Select the entry created and double click on Assign Outbound Implementation.



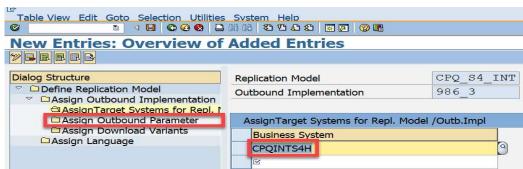
- 14. Choose New Entries.
- 15. Select Outbound Implementation as Outbound Impl. for BP/REL via Services (986 3) using the input help and choose Enter.
- 16. Enter Sequence as 1.



17. Select the row added and double click on Assign Target Systems for Repl. Model/Outb.Impl in dialog structure.



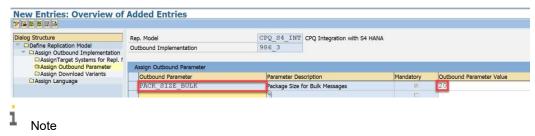
- 18. Choose New Entries and add the Business system created above using the input help.
- 19. Select the Business system row and double click on the node Assign Outbound Parameter in the dialog structure.



20. Choose New Entries to add the Outbound parameter PACK SIZE BULK using the input help, check field Mandatory and enter outbound parameter value as 20.

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Outbound Parameter value for PACK_SIZE_BULK can be set as per most efficient package size, which will differ from system to system.

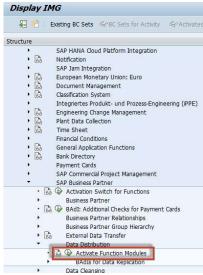
- 21. Choose Save, details will be saved in the transport request.
- 22. Click Activate to activate the replication model after selecting the folder Define Replication Model.



3.1.6.2 Activate Function Modules

Procedure

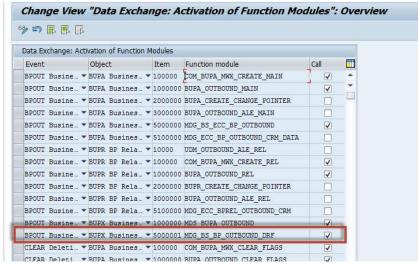
- 1. Open transaction SPRO.
- 2. In IMG menu structure, navigate to Cross-Application Components→SAP Business Partner → Data Distribution → Activate Function Modules.



3. Activate the function module MDG BS BP OUTBOUND DRF by checking the field Call as shown below.

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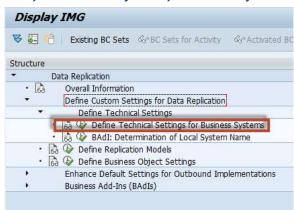
4. Choose Save

3.1.7 Material Replication from SAP S/4HANA to SAP CPQ using SOAP

3.1.7.1 Configure Data Replication Framework

Procedure

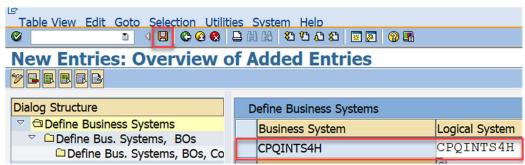
- 1. Open transaction DRFIMG.
- Navigate to Define Custom Settings for Data Replication → Define Technical Settings → Define Technical Systems for Business Systems.



- 3. Choose New Entries to add Business System for SAP CPQ. If the Business system is already created, Select Business System and Logical System name using input help. Choose Save,
- Select the Business System and double click on Define Bus. Systems, BOs in the Dialog structure.

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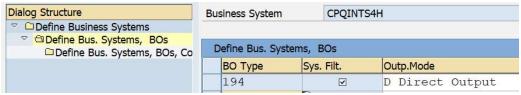




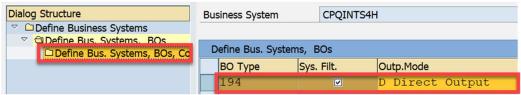
5. Choose New Entries and add BO Type 194 (Material) using input help and check field Sys. Filt. Select *Outp.Mode* as Direct Output. In case this entry exists, skip the step.



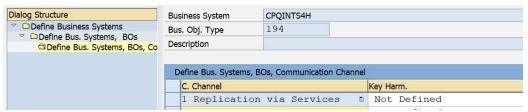
If Output Mode is selected as Direct Output, idocs will be triggered immediately on Save. In this case, DRFOUT is not required to replicate changes to customer hierarchy. If Output Mode is selected as Pooled Output, idocs are sent using DRF change pointers and DRFOUT has to be executed or scheduled to create and send the Idoc.



Select the entry BO type and double click on Define Bus. Systems, BOs, Communication Channel in the left dialog structure.



Choose New Entries to add the Communication Channel as Replication via Services. In case the entry exists, skip this step.



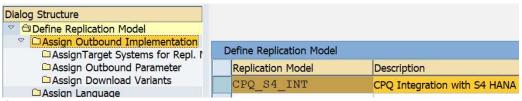
- 8. Choose Save,
- 9. Navigate back.
- 10. Select the IMG activity Define Replication Models.
- 11. Choose New Entries and define Replication Model Name and Description and Log days as 50.



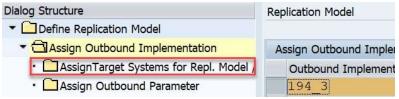
- 12. Choose Enter.
- 13. Select the entry created and double click on Assign Outbound Implementation.

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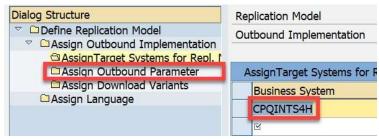




- 14. Choose New Entries.
- 15. Select Outbound Implementation as Outbound Impl. for Product via Services (194 3) using the input help and choose Enter.
- 16. Select the row added and double click on Assign Target Systems for Repl. Model/Outb.Impl in dialog structure.



- 17. Choose New Entries and add the Business system created above using the input help.
- 18. Select the Business system row and double click on the node Assign Outbound Parameter in the dialog structure.



19. Choose New Entries to add the Outbound parameter PACK SIZE BULK using the input help. Enter outbound parameter value as 20 and click enter to check field Mandatory.



- 20. Choose Save.
- 21. Go back to Define Replication Model Screen and Select the row for Define Replication Model.
- 22. Click Activate to activate the replication model.



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3.1.8 Configuration for Filter Values

3.1.8.1Filter Code Values

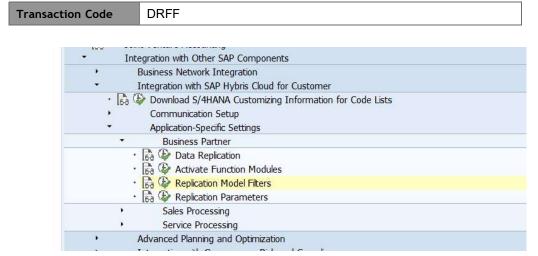
Purpose

Filter objects is used to remove the S/4HANA outbound processing code values which are not supported by the receiver system. During S/4HANA inbound processing these code values are added again.

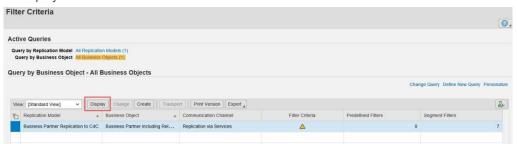
These below steps are optional and should be performed based on your requirement.

Procedure

1. To setup Filter Objects for Code value, navigate to below path.



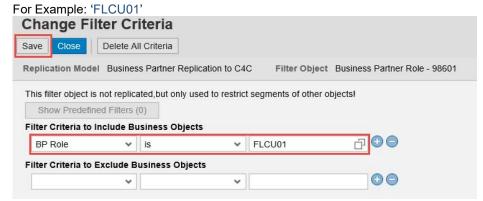
- 2. Execute Replication Model Filters Activity, it will open a pop up screen.
- 3. Enter the Login credential for your S/4HANA system.
- 4. Select the relevant Replication Model and choose display. It will open a different window to Display Filter Criteria.



- 5. Click on Edit and Choose the Filter Criteria to Include Business Objects.
- 6. Select the BP role to be Include in your business Partner replication to SAP CPQ. For Example: FLCU01
- 7. Click on Show Segment filter and choose the Filter Object Business Partner Role-98601.
- 8. Click on Edit and Choose the Filter Criteria to Include Business Objects.
- 9. Select the BP role to be Include in your business Partner replication to SAP CPQ.

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10. Choose Save.

3.1.9 Business Configuration Set

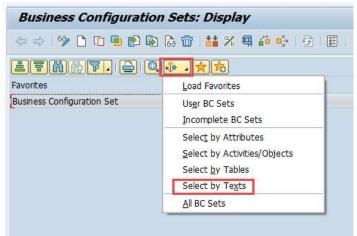
Purpose

Business Configuration Set C4C_INTEGRATION_CS and C4C_INTEGRATION_CC contains additional customizing setting for SAP CPQ and SAP S/4HANA integration.

BC set C4C INTEGRATION CC contains client-independent customizing entries for the ALE message types. Activate this BC set in the SAP S/4HANA client you use for cross-client customizing.

3.1.9.1 Procedure to activate Client Specific BC SET

- 1. Open transaction SCPR3
- Choose New BC Set Selection→Select by Texts.



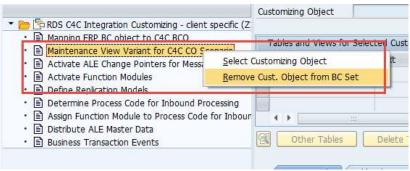
In the dialog box enter BC Set name C4C_INTEGRATION_CS and choose Execute.

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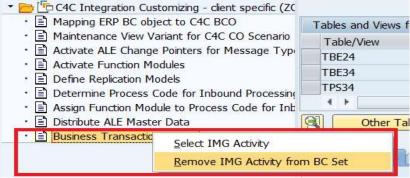




- 4. Double click on the BC Set ID and choose Continue in the BC Set Consistency Check pop-up window.
- 5. Choose Copy BC Set
- In the following dialog box, enter the new BC Set name and short text. Example Z CPQ INTEGRATION CS and SET CPQ Integration Customizing - client specific.
- Choose *Local Object* or select a transport request if required.
- Choose Define Favorites
- Choose Change mode and choose Continue in the BC Set Consistency Check dialog box.
- 10. Right click on the node Maintenance View Variant for C4C CO Scenario in the structure and choose Remove Cust. Object from BC Set.



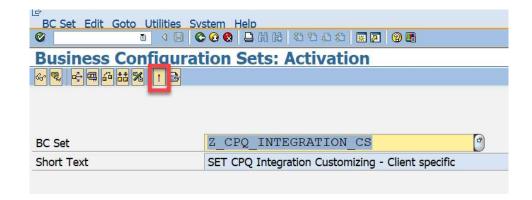
11. Right click on the node Business Transaction Events in the structure and choose Remove IMG Activity from BC Set.



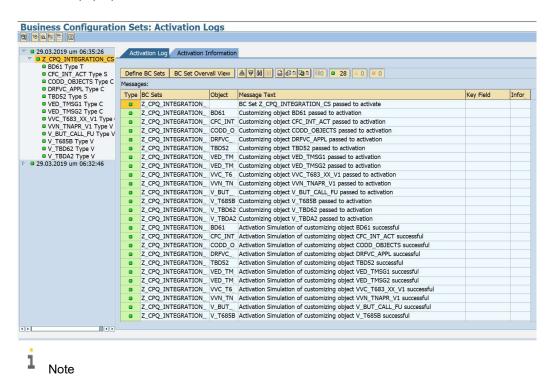
- 12. Choose Save.
- 13. Open transaction SCPR20
- 14. In the field BC Set, input the BC Set Name z CPQ INTEGRATION CS.
- 15. Choose Activate BC Set (F7) on the application tool bar

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- 16. Save it in a customizing request if there is a dialog box
- 17. In the next pop-up, choose *Continue Activation* with default value.

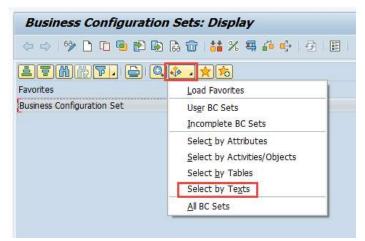


Ignore if there are any warning messages during the activation of the BC set.

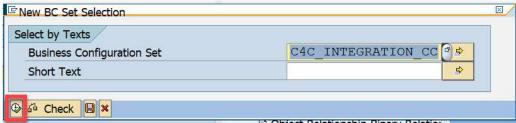
3.1.9.2 Procedure to Activate Cross Client BC SET

- 1. Open transaction SCPR3
- Choose New BC Set Selection→ Select by Texts.

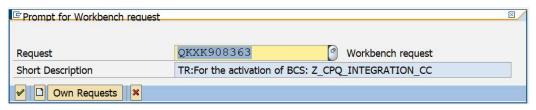
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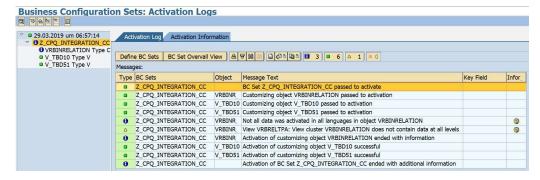


3. In the dialog box enter BC Set name C4C_INTEGRATION_CC and choose Execute.



- 4. Double click on the BC Set ID and choose Continue in the BC Set Consistency Check pop-up window.
- 5. Choose Copy BC Set
- 6. In the following dialog box, enter the new BC Set name and short text. Example Z CPQ INTEGRATION CC and SET CPQ Integration Customizing - cross client.
- 7. Choose *Local Object* or select a transport request if required.
- Open transaction SCPR20
- 9. In the field BC Set, input the BC Set name Z CPQ INTEGRATION CC.
- 10. Choose Activate BC Set (F7) on the application tool bar, and create a new request for this.





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Note

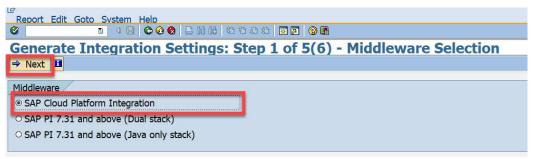
Ignore if there are any warning messages during the activation of the BC set.

3.1.10 Automatically Generate Integration Settings for Data **Exchange**

1. To Automatically Generate Connectivity settings for Data Exchange navigate using one of the following paths.

RCOD_CONNECTIVITY

2. Generate Integration Settings: Step 1: Select SAP SAP Cloud Integration as the middleware and click Next.



- 3. Generate Integration Settings: Step 2: Select the scope of Integration exactly as scoped in the SAP CPQ Solution and choose Next.
- **Business Partners**
- **Products**
- Sales Quotes
- **Pricing Conditions**

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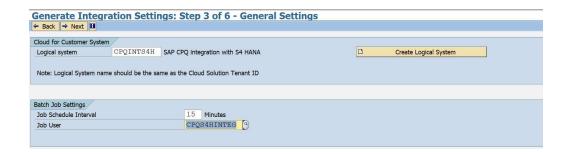


4. Generate Integration Settings: Step 3: Maintain the following and choose Next

Field	Entry
Logical System	Do one of the following: Enter the logical system of the CPQ system or Click Create Logical System to create new logical system.
Job Schedule Interval	Enter the frequency with which the inbound and outbound IDocs should be processed in the S/4HANA system.
Job User	Enter the user using which batch jobs are scheduled.

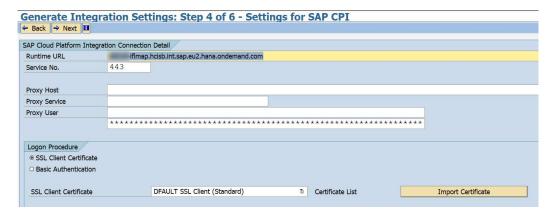
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5. Generate Integration Settings: Step 4: Enter the connection information about the CPI system to generate the RFC destinations. Choose Next

Field	Entry
Runtime URL	Worker node URL of the SAP SAP Cloud Integration tenant (without HTTPS ://)
Proxy details (Optional)	Host name, service name, and the access details of the forward or reverse proxy?
Authentication (basic or certificate)	Either import the certificate or enter the user credentials.



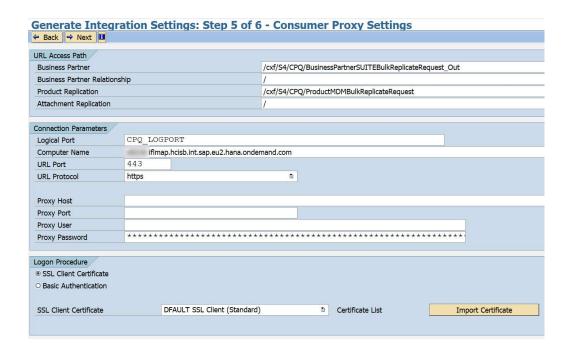
6. In Generate Integration Settings: Step 5 of 6-Consumer Proxy Settings screen, enter the URL Access path for Business Partner and Product Replication. Enter the CPI system details in Connection Parameters and choose Certificate based authentication of CPI system.



You can take the URL Access Path from relevant IFlow of your CPI Web UI and for that service path add /cxf and maintain against the respective service.

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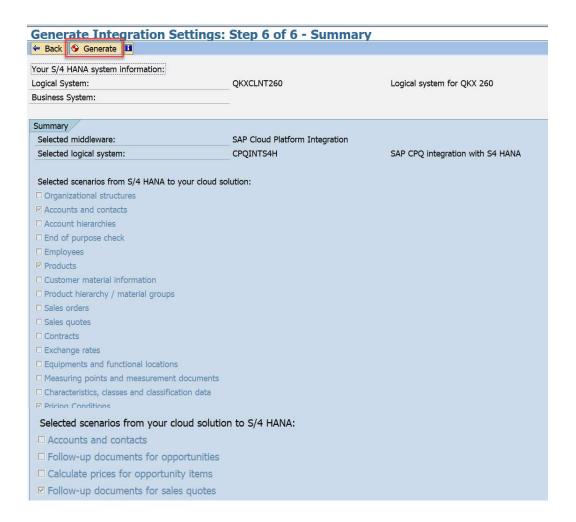




- 7. Choose Next.
- 8. In the Summary screen, select the Generate button to generate the configuration entities.

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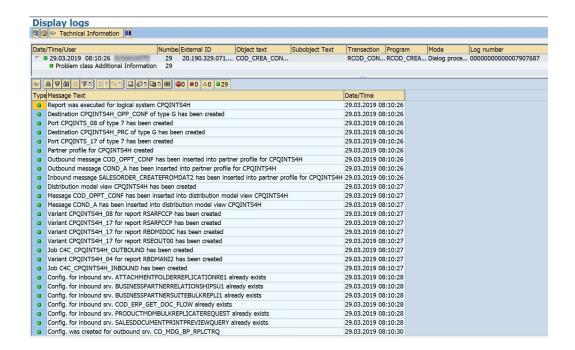
9. In the confirm pop- up screen choose Yes



10. In the log you can check which entities were created

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3.1.11 **Pricing Condition Filter**

Purpose

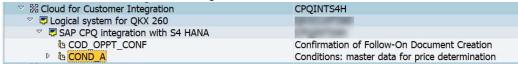
This describes the procedure to create an IDoc filter in SAP S/4HANA system. To allow only PPR0 Pricing Condition data to flow to SAP CPQ system.

Procedure

1. Access the following transaction:



2. The Distribution Model for CPQ will be created by connectivity report, Search and Expand the Distribution Model 'SAP CPQ Integration with S/4HANA'.



- 3. Expand the COND_A message type and double click on No filter set.
- 4. In a Change Filter popup, click on Create Filter Group button.
- 5. Expand the Filter Group and select the field Condition Type,
- Click on Add button to add a value to filter field PPR0.

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7. Click Ok button in popup windows and Save the Distribution Model.

3.2 Configuration in SAP SAP Cloud Integration



SAP provides prepackaged, generic integration content called integration flows (iFlows) for the integration of SAP CPQ with SAP S/4HANA using SAP SAP Cloud Integration(CPI).

Prerequisites

To be able to import and deploy iFlows, you need the AuthGroup.IntegrationDeveloper role assigned in your tenant.

Upload SAP CPQ SSL Certificates in SAP SAP Cloud Integration.

3.2.1 How to get the SAP CPI client certificate

In the SAP CPI provisioning e-mail follow the link under Certificate Information. In the resulting screen choose X509 Certificate with option Binary CER. Download it to your local machine.

3.2.2 View prepackaged iFlows using SAP CPI Web UI

- 1. Access the web UI URL from the provisioning e-mail. It should be in the format: https://<hcitenant>.hana.ondemand.com/itspaces.
- 2. View all pre-packaged integration flows delivered by SAP in the *Discover* tab.
- Click on the package SAP CPQ Integration with SAP S/4HANA
- 4. You can see all the artifacts for this Integration Package.

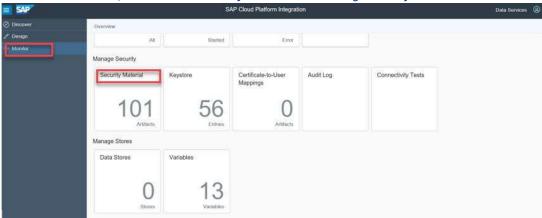
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3.2.3 Creating User Credentials in CPI System

Connect to the tenant management node of the SAP CPI system with the URL http://<tenant management node URL>/itspaces

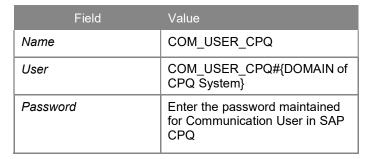
Go to the Monitor tab, then Click on Security Material under Manage Security.

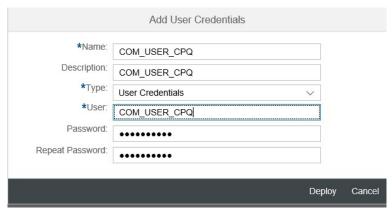


Click Add and select User Credentials.



Enter the User detail for SAP CPQ.





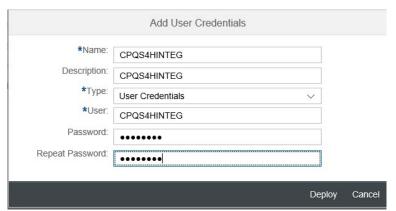
- Click Deploy.
- Click Add and select User Credentials.

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7. Enter details for user of SAP S/4HANA.

Field	Value
Name	CPQS4HINTEG
User	CPQS4HINTEG
Password	Enter the password of User CPQS4HINTEG



- Click Deploy.
- i Note

In case you have SAP CPS Integrated with SAP S/4HANA, then

- Click Add and select OAuth2 Credentials
- 2. Enter details for OAuth2 Credentials of SAP CPS.

Field	Value
Name	CPSSERVICE
Grant Type	Client Credentials
Description	CPSSERVICE
Authentication URL	Maintain CPS authentication URL e.g. https://cpsservices.authentication.eu10.hana.ondemand.com/oauth/token
Client ID	Client ID of CPS system e.g. sb-cpsservices-cpscalliduscloud!t0001
Client Secret	Enter the password of the client
Client Authentication	Send as Body Parameter
Include Scope	Should be ticked
Scope	Maintain the scope e.g. uaa.resource
Content Type	Application/x-www-form-urlencoded

3. Click Deploy.

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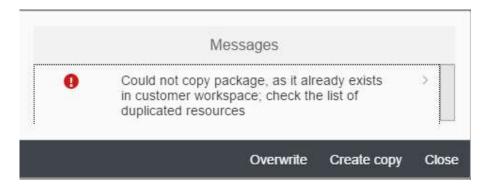
Configure and Deploy the iFlows Using Web UI 3.2.4



If you have re-deployed key store (system.jks) in your SAP CPI tenant, you need to redeploy all the iFlows to avoid the caching issues or re-start them to avoid caching related

Procedure

- Connect to the tenant management node of the SAP CPI system with the URL http://<tenant management node URL>/itspaces
- 2. Under the Discover tab, Click on the package SAP CPQ Integration with SAP S/4HANA.
- 3. Choose *Copy* on the top-right corner of the package overview page.
- 4. If the Integration package were being created for the first time, then you would see the message 'Integration Package Created'. If not, you will see the below dialog box asking to either create a new copy of the package or to overwrite the existing integration package content. Choose Overwrite.



Select the *Design* mode to configure the iFlows.

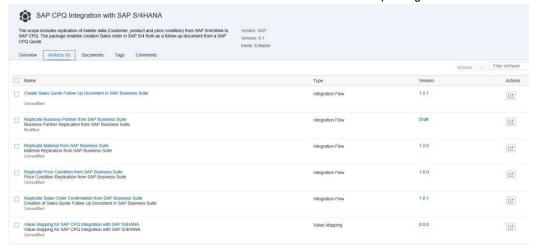


Select the Integration Package copied

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7. All the iFlows will be shown/ listed under the ARTIFACTS tab of the package



- 8. Choose the iFlows mentioned in the table below (one after the other) by choosing *Actions* → *Configure* option.
- Configure the sender system (in this example S/4HANA) and receiver system (in this example CPQ) details as explained below:
 - a. Choose Sender Tab: Choose Authentication Method as Client Certificate
 - b. Browse for the certificate. See chapter: Certificate Management in SAP S/4HANA for the client Certificate.
 - c. Choose Receiver Tab: Enter the Address as CPQ API URL. Check section How to find CPQ API URL in appendix.
 - d. Choose the Authentication as Basic
 - e. Enter the Communication User Credential in *Credential Name*.
 - f. Choose Save and Choose Deploy
 - g. Repeat the same procedure for all the iFlows that have the same sender system as S/4HANA and Receiver System as CPQ.
- 10. Choose iFlow to configure the sender system (in this example CPQ) and receiver system (in this example S/4HANA) details.
 - a. Choose Sender Tab: Choose Authorization as User Role.
 - b. Add Address as /CPQ/S4/Quote2Order.
 - c. Choose Receiver Tab: Select Receiver as \$/4HANA.
 - d. Enter the host name as Cloud Connector URL, check section How to setup Cloud Connector or Contact your system administrator for these details.
 - e. Enter *Client* as the SAP S/4HANA system client. *Proxy Type* as On-Premise.
 - Choose the Authentication as Basic
 - g. Enter the S/4HANA User Credential in Credential Name.
 - h. Choose More Tab: Enter <SID>CLNT<Client> in Recipient Partner Number. For Example: QKXCLNT260.
 - Enter SAP<SID> in *Recipient Port*. For Example: SAPQKX.
 - Enter Logical System you have created in S/4HANA in Sender Partner Number and Sender Port. For Example: CPQINTS4H.
 - k. Choose Save and Choose Deploy

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iFlows to be configured	
Name of the iFlow	Description of the iFlow
Create Sales Quote Follow Up Document in SAP Business Suite	Creation of Sales Quote Follow Up Document in SAP Business Suite
Replicate Business Partner from SAP Business Suite	Business Partner Replication from SAP Business Suite
Replicate Material from SAP Business Suite	Material Replication from SAP Business Suite
Replicate Price Condition from SAP Business Suite	Price Condition Replication from SAP Business Suite
Replicate Sales Order Confirmation from SAP Business Suite	Creation of Sales Quote Follow Up Document in SAP Business Suite

Note

In case you have SAP CPS Integrated with SAP S/4HANA, And Product replication done from SAP S/4HANA to SAP CPS. You can configure the Iflow "Create Sales Quote Follow Up Document in SAP Business Suite" for receiver CPS as well to check configurable product characteristics in SAP CPS follow the below steps.

- a. Choose Receiver Tab: Select Receiver as CPS.
- b. Enter the host name as SAP CPS URL or Contact your system administrator for these details.
- c. Enter *Proxy Type* as Internet and Select *Method* as GET.
- d. Choose the Authentication as OAuth2 Client Credentials
- e. Enter the CPS OAuth2 Credential in Credential Name.

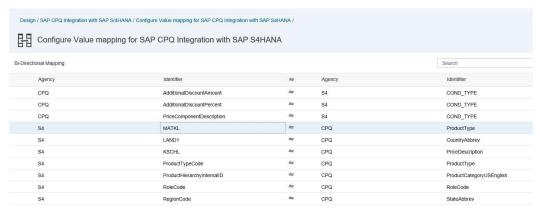
3.2.5 Value Mapping for CPQ integration with SAP S/4HANA

- 1. Connect to the tenant management node of the CPI system with the url: http://<tenant management node>/itspaces
- 2. Go to Design view.
- 3. Select the Integration Package in your workspace.
- 4. All the iFlows will be shown/ listed under the Artifacts section of the page.
- 5. Select the iFlows with name Value Mapping for SAP CPQ integration with SAP S4HANA and choose Actions button on the right and select Configure.

All the Mapping Values will be shown/ listed.

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- 6. Map all the Value mapping fields as per below sections.
- Choose Save and then Deploy.

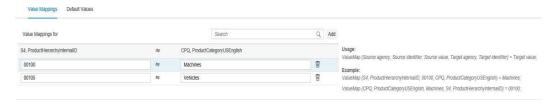
3.2.5.1 Product Type

- 1. Mention the Material Group in SAP S/4HANA system in left side.
- 2. Enter the respective Product Type in CPQ system in right side. Maintain the Product Type created in 3.3.3.1 Maintain Product Type section.



3.2.5.2 Product Category

- Mention the Product Hierarchy in SAP S/4HANA system in left side.
- Enter the respective Product Category in CPQ system in right side. Maintain the Product Category created in 3.3.3.2 Maintain Product Category section



3.2.5.3 Role Code

- 1. Mention the Business partner role code in SAP S/4HANA system in left side.
- 2. Enter the respective Business partner role code in CPQ system in right side. Maintain the Business partner roles available in CPQ system Customer Role Default under Customer/ Customer Role.

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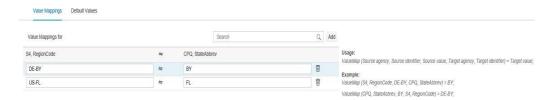
3.2.5.4 Country

- 1. Mention the Country Code in SAP S/4HANA system on left side. You can check Country Code in S/4HANA in T005 Table.
- 2. Enter the respective Country Code in CPQ system in right side. Maintain the Countries Abrev3 available in CPQ system under General as Countries.



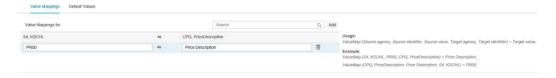
3.2.5.5 Region

- 1. Mention the Region Code in SAP S/4HANA system on left side. You can check Region Code in S/4HANA in T005S Table.
- 2. Enter the respective Region Code in CPQ system in right side. Maintain the States Abrev2 available in CPQ system under General as States.



3.2.5.6 Pricing Condition

- 1. Mention the Pricing Condition Code in SAP S/4HANA system on left side.
- 2. Enter the respective Pricing Description to be used in CPQ system in right side.



3.3 Configuration in SAP CPQ

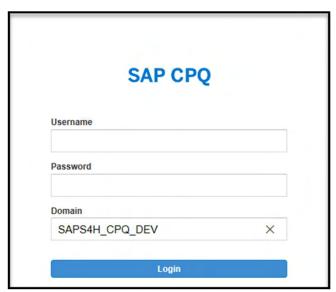
3.3.1 Define Provider settings

Procedure

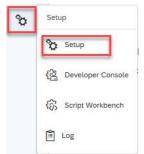
1. Login to your SAP CPQ system using an Administrator User.

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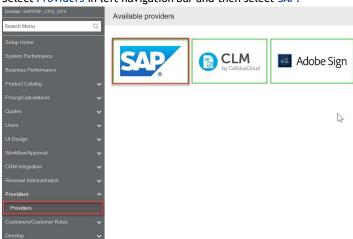




2. Click on SETUP in menu bar and choose Setup.



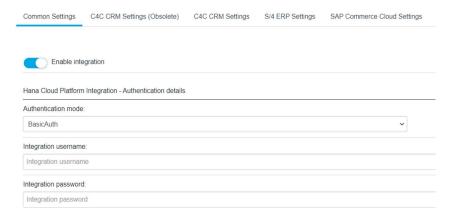
3. Select *Providers* in left navigation bar and then select *SAP*.



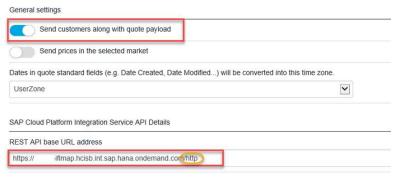
- 4. Select Integration Suite in Available SAP Providers.
- In Common Settings tab, Switch on Enable Integration.
- Select BasicAuth in Authentication Mode dropdown.
- 7. Maintain Integration *Username* and *password* as the username and password of SAP Cloud Integration User.

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- 8. Under General Setting, Switch on Send customers along with quote payload.
- 9. Enter the Cloud Platform URL in REST API base URL address and a postfix /http to connect to http adapter.



- 10. Click Save.
- 11. Navigate to S/4 ERP Settings tab, maintain the endpoint as /CPQ/S4/Quote2Order.
- 12. Click Save.
- 13. Select SAP ERP in Available SAP Providers.
- 14. Select Connect SAP ERP as TRUE.
- 15. Click Save.

3.3.2 Create CPQ Communication User

Purpose

A Communication user need to be created in SAP CPQ System, which will be used in SAP Cloud Integration for basic authentication to CPQ.

Procedure

- 1. Login to your SAP CPQ system using an Administrator User.
- 2. Click on SETUP in menu bar and choose Setup.
- 3. In left navigation bar, select *Users* under *Users*.
- 4. Click on Add New User Button.
- 5. Enter the First Name, Last Name and Email Address for Communication User.
- 6. Enter Username as COM USER CPQ and maintain the Initial Password.
- 7. Choose User Type as Sales.

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- 8. Select Administrator.
- 9. Select Company as CallidusCloud (CALD).
- 10. Click Save.



Login to CPQ system using the above user and reset the password and use same password to be used in CPI at the time of Creating User Credentials.

3.3.3 Product Replication Setup

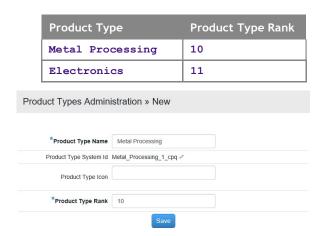
3.3.3.1 Maintain Product Types

Purpose

Follow below procedure to create Product Type in SAP CPQ. This Product Type is mapped to S/4HANA Material Group in SAP CPI middleware.

Procedure

- 1. Login to your SAP CPQ system using an Administrator User.
- 2. Click on SETUP in menu bar and choose Setup.
- 3. In left navigation bar, select Product Types under Product Catalog.
- 4. Click on Add New Button.
- 5. Maintain the *Product Type Name* and *Product Type Rank*. Example:



6. Click Save.

3.3.3.2 Maintain Product Categories

Purpose

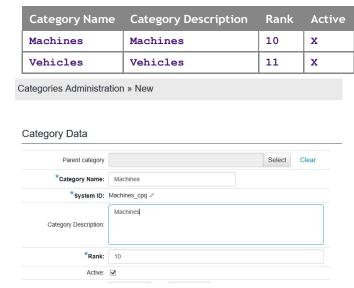
In below steps, product catalog is created, which will help user to differentiate the product based on their category. If product doesn't have any Product Category, it is considered as DRAFT. The Product Category is mapped with S/4HANA Product Hierarchy in CPI middleware.

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Procedure

- 1. In left navigation bar, select *Categories* under *Product Catalog*.
- 2. Click on Add New Button.
- 3. Maintain the Product Category by giving Category Name, Category Description, Rank and check the Active checkbox. Example:



4. Click Save.

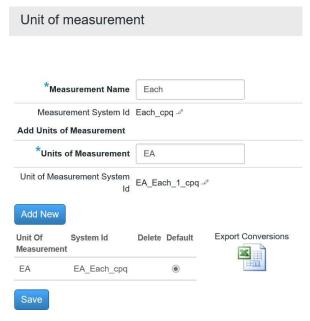
3.3.3.3 Maintain Unit of Measurement

Procedure

- 1. In left navigation bar, select *Unit of Measurement* under *Product Catalog*.
- 2. Click on Add New Button.
- 3. Enter the Description as Measurement Name and Code as Unit of Measurement.
- 4. Click on Add New Button.

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5. Click Save.

3.3.4 Customer Replication Setup

3.3.4.1 Maintain Customer Role

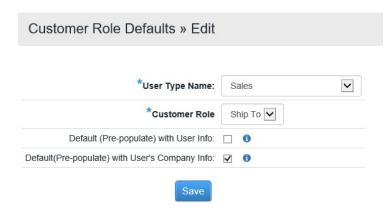
Procedure

- 1. Login to your SAP CPQ system using an Administrator User.
- 2. Click on SETUP in menu bar and choose Setup.
- 3. In left navigation bar, select Customer Role Defaults under Customers/ Customer Roles.
- 4. Click on Add New Button.
- 5. Select the *User Type* and *Customer Role*. Example:

User Type	Customer Role	User Info	User's Company Info
Partner	Bill To	x	
Sales	Ship To		х

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Click Save.



Customer Role Defaults settings has a significance in maintaining the Bill To and Ship To in the Customer Info tab of the CPQ quote hence maintain this setting as the User Type used for creating

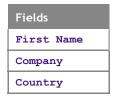
3.3.4.2 Maintain Customer Field Permissions

Purpose

Business can define which fields of customer to be made mandatory and which should be read only. Below steps deals with minimum fields needed for customer replication from SAP S/4HANA system.

Procedure

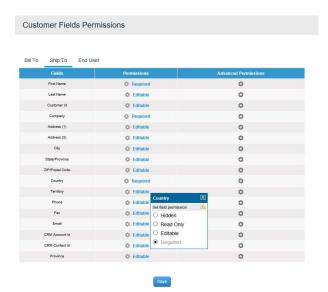
- 1. In left navigation bar, select Customer Field Permissions under Customers/Customer Roles.
- Go to Ship To tab, click on the permission field and Select Required for below fields:



Maintain the field permissions as per your business needs, setting field permission as Required will make the field mandatory in the customer master, hence make sure that all the mandatory field values are available while business partner master data replication from S/4HANA system.

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- 3. Click Save.
- 4. In similar way, the mentioned fields can be made mandatory for Bill To and End User.

3.3.5 Pricing/ Discounting Setup

3.3.5.1 Create Markets

Purpose

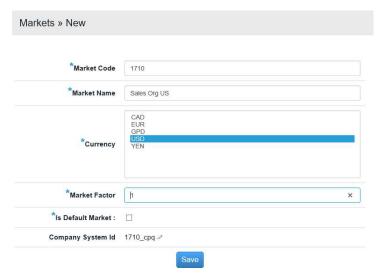
A market is created in SAP CPQ against every Sales Organization of SAP S/4HANA system. This will help in pricing determination in Sales Quote in CPQ system.

Procedure

- 1. Login to your SAP CPQ system using an Administrator User.
- 2. Click on SETUP in menu bar and choose Setup.
- 3. In left navigation bar, select Markets under Pricing/Calculations.
- 4. Click on Add New Button.
- 5. Enter the Market Code field as a Sales Organization of S/4HANA system.
- 6. Enter Marketing Name, Currency and Market Factor. Example:

Market Code	Market Name	Currency	Market Factor
1710	Sales Org US	USD	1
1010	Sales Org DE	EUR	1

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- 7. Click Save.
- 8. In left navigation bar, select Market Visibility under Pricing/Calculations.
- 9. Click on Add New Button.
- 10. Select Market Name created in above step in Step 2 Section
- 11. In Step 3 section enter *Visibility Condition* as 1.
- 12. Click Save.

3.3.5.2 Create Pricebooks

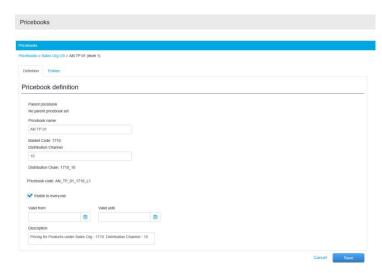
Purpose

Pricing in the Sales Quote is determined based on market, pricebook and product in CPQ system. Pricebook comprises of Distribution Channel and Product entries with their respective prices.

Procedure

- 1. In left navigation bar, select *Pricebooks* under *Pricing/Calculations*.
- 2. Under *Pricebooks* tab, search for the *Market Name* created in above steps.
- 3. Click on Add New Pricebook button.
- 4. Enter the Pricebook name.
- 5. Enter the Distribution Channel similar to the distribution Channel of S/4HANA system against the Sales Organization. Example: 10
- 6. Check the Visible to everyone checkbox.

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- 7. Click Save.
- 8. Pricing for the products in *Entries* tab will be created by Pricing Replication IDoc from S/4HANA system.

3.3.5.3 Discounting

Purpose

One of the major functionalities of SAP CPQ is on the fly discounts based on products, product types, product categories, users and user types. You can setup discounting in Sales Quote in your SAP CPQ system following below procedure.

Procedure

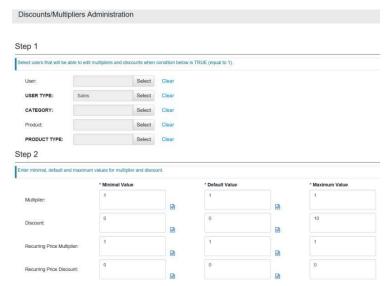
- 1. In left navigation bar, select *Discounts/Multipliers* under *Pricing/Calculations*.
- 2. Click on Add New button.
- 3. Click on Select button to maintain USER TYPE as Sales in Step 1 section.
- 1 Note

The above selection will allow users with user type 'Sales' to give discounts in Sales Quote which we will be defining in next step. You can create any condition for discount selection with User, User Type, Product, Product Type or Category.

- 4. In Step 2 section, maintain multiplier as 1 for Minimal Value, Default Value and Maximum Value.
- 5. Maintain Maximum Value for Discount as 10. It will allow your Sales User to give maximum of 10 percent discount. Above 10 percent will be subject to approval.

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- In Step 3 section, maintain *Condition* as 1. You can create conditions using scripting language also.
- Click Save.

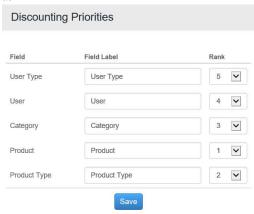
3.3.5.4 Discounting Priorities

Purpose

In SAP CPQ, you can provide discount to customer in Sales Quote based on User, User Type, Product, Product Type or Product Category conditions. There might come a case with two or more valid conditions. In such situation, which condition will take priority.

Procedure

- 1. In left navigation bar, select *Discounting Priorities* under *Pricing/Calculations*.
- 2. As we want Product to have highest Priority. Select *Rank* as 1.
- 3. Further Select *Rank* for Product Type as 2, Category as 3, User as 4 and User Type as 5.



Click Save.

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3.3.6 Sales Quote to Order Setup

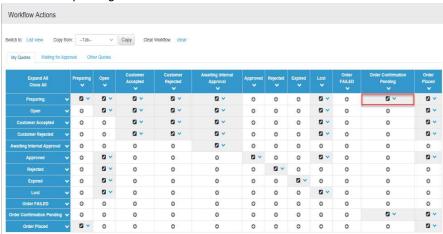
3.3.6.1 Add Action for External Sales Order in ERP

Purpose

The Action for creating Sales Order in your ERP External System and the same need to be assigned to Sales Quote in SAP CPQ.

Procedure

- 1. In left navigation bar, select Workflow under Workflow/Approval.
- 2. In My Quotes tab, Click on Start Status is Preparing, and End Status is Order Confirmation pending.



- Click on , Scroll to the *Place order to ERP* Action, Click the checkbox *Selected*.
- Click Save.
- In a similar way configure all the below actions in workflow

Start Status	End Status	Action
Order Confirmation pending	Order Confirmation pending	Edit, Place Order to ERP, Save Quote
Order Confirmation pending	Order Placed	Order Status Update
Order Placed	Order Placed	Edit, History

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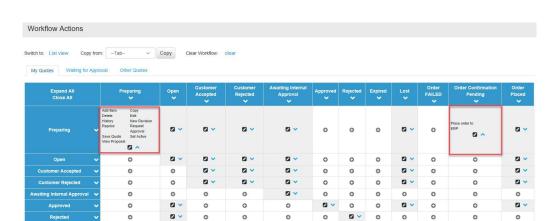
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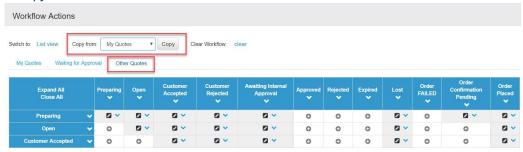
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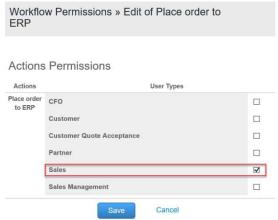
0

Note

Copy the same settings from My Quotes to Other Quotes tab as well. To do this Select Other Quotes tab, Select My Quotes from the dropdown selection in the Copy from field and click on Copy button.



- In left navigation bar, select Workflow Permissions under Workflow/Approval.
- 7. Under Action Permissions, search for Place order to ERP action.
- Click on Add button (+). And Select the checkbox for User Type Sales.



- Click Save.
- In a similar way add the User Type Sales for all the actions like Edit, Save Quote, Order Status Update and History under Action Permissions.

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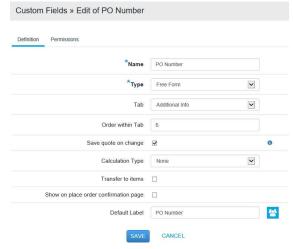
3.3.6.2 Create Custom field in Sales Quote

Purpose

Custom field is needed in SAP CPQ in Sales Quote to capture PO Number in Sales Order.

Procedure

- 1. Login to your SAP CPQ system using an Administrator User.
- 2. Click on SETUP in menu bar and choose Setup.
- 3. In left navigation bar, select Custom Fields under Quotes.
- 4. Click on Add New Button.
- 5. In the *Definition* tab, maintain the *Name* as PO Number (case sensitive).
- 6. Choose Type as Free Form and Tab as Additional Info.
- 7. Select Save quote on change.
- 8. Enter Default Label as PO Number



9. Click Save.

3.4 Data Loading

3.4.1 Initial Data Load

Purpose

This section describes how to execute the initial data load of material, customer master and Pricing Condition data from your SAP S/4HANA system to the SAP CPQ system.

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3.4.1.1 Business Partner (Customer Master)

- 1. Open transaction DRFOUT.
- 2. Select the Replication Model and Outbound Implementation created in S/4HANA
- 3. Choose Replication Mode as Manual, in case you want to replicate specific business partners.



- 4. Click Manual Replication Filter Criteria in top menu.
- Enter the Business Partner ID and choose Back.



6. Choose Yes in the following pop-up.



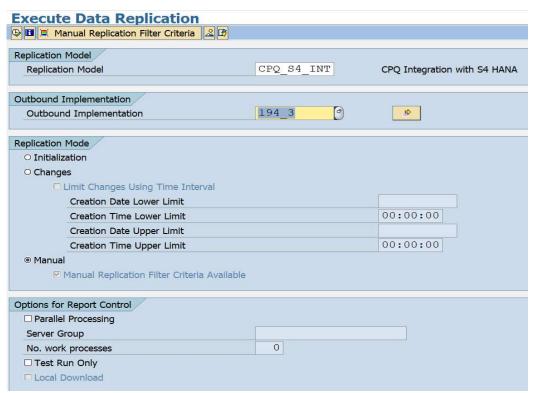
Choose Execute.

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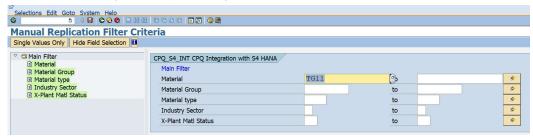


3.4.1.2 Product Master

- 1. Open transaction DRFOUT.
- Select the Replication Model and Outbound Implementation created in S/4HANA
- Choose Replication Mode as Manual, in case you want to replicate specific Material.



- Click Manual Replication Filter Criteria in top menu.
- Enter the Material (For example: TG11) and choose Back.



Choose *Yes* in the following pop-up.



Choose Execute.

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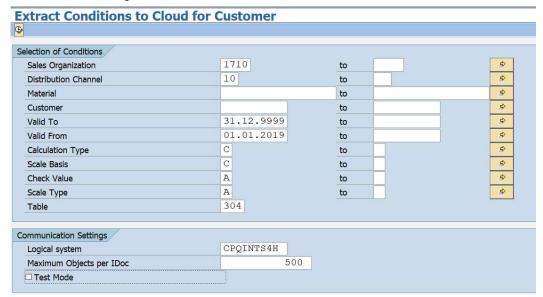


3.4.1.3 Product Pricing

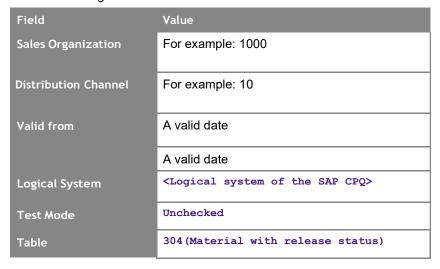
- 1. Access the transaction SE38.
- 2. Enter the report name RCOD_CONDITIONS_EXTRACT and click on Execute.



3. Enter the following details and click *Execute*:



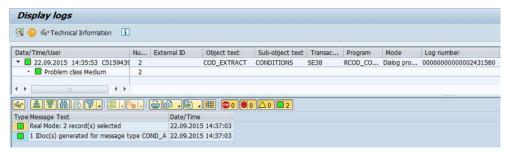
4. Enter the following details:



5. The condition records created with the provided data are replicated to SAP CPQ.

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- 6. Execute the report by changing the scale type to B (retaining the other inputs) for which IDoc filtering is not maintained.
- Note

Go to Tcode BD87 in SAP S/4HANA system to process the Idoc if it is not triggered automatically.

4 Manual Build Steps

4.1 Ticket Component

Implementation Step	Component	Comment
	SV-RDS-CFC	

4.2 Appendix

4.2.1 How to find CPQ API URL

Purpose

You need to have CPQ API URL, which will be used in SAP Cloud Integration system as address path to call the API's.

Procedure

- 1. Login to your SAP CPQ system using an Administrator User.
- 2. Click on SETUP in menu bar and choose Setup.
- 3. On the top right corner, click on *Help* icon.
- 4. On left navigation, click on CallidusCloud CPQ API.
- 5. Check the API Example section.
- 6. To access CPQ's API, use the following URLs:
 - <application root>/wsAPI/CPQAPI.asmx this is the set of user level functions like Business Partner Replication and Sales Order Confirmation.
 - <application root>/wsAPI/wssrv.asmx this is the set of admin level functions like Material Replication and Pricing Condition Replication.

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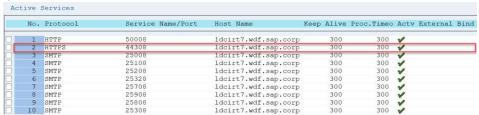
4.2.2 How to setup Cloud Connector

Purpose

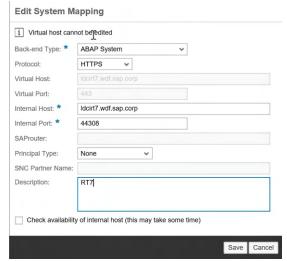
You need to have Cloud Connector Virtual Host URL for SAP S/4HANA system, which will be used in SAP Cloud Integration system as address path to call the S/4HANA system.

Procedure

- 1. Login to your SAP HANA Cloud Connector system using an Administrator User.
- 2. Select the Account of your SAP Cloud Integration system.
- 3. Click on Access Control to add Mapping Virtual to Internal System.
- 4. Click on Add button.
- 5. Select ABAP System in Back-end Type and Click Next.
- 6. Select HTTPS as Protocol and Click Next.
- 7. Enter the Internal Host and Click Next. You can find HTTPS host and port of your system in SMICM transaction Goto -> Services.



- Enter the Internal Port and Click Next.
- Enter the Virtual Host which you must maintain in Cloud Platform Iflows and Click Next.
- 10. Enter the Virtual Port which you must maintain in Cloud Platform Iflows and Click
- 11. Select Principal Type as none and Click Next.
- 12. Enter the Description and Click Next.
- 13. Click on Finish button.



- 14. Select the Entry for Virtual Host Mapping created in above steps.
- Click on Add in Resource Accessible and Add / as URL Path.

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Add Resou	ırce
i Path must	not be empty
	✓ Enabled
URL Path: *	1
Access Policy:	Path only (sub-paths are excluded)
	Path and all sub-paths
Description:	
	Save Cancel
	- Canon

16. Click Save.

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