How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI
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1 Introduction

Business Scenario

Historically, SAP customers have made large investments in on-premise Sales and Distribution application capabilities. The SAP SD module continues to be viable in the corporate system landscape, but many customers want to enable a fresh and intuitive user experience, increased functionality, and faster delivery of new functionality. The hybrid integration scenario is a great enabler of application delivery via the cloud, because it allows the customer to preserve the investment already made in the on-premise SAP SD module. By the utilization of iFlow solution content delivered by SAP, a bridge between the on-premise SAP SD module and the SAP Hybris Cloud for Customer system is established, thus allowing the customer to take advantage of the strengths of both.

Background Information

This document details the steps required to enable bi-directional communication between an SAP Hybris Cloud for Customer and the on-premise SAP Sales and Distribution module.

Prerequisites

SAP ERP
The ERP system must contain the following ABAP components:
1. SAP_BASIS 700 SP18 or higher
2. SAP_APPL 600 SP15 or higher

SAP Hybris Cloud for Customer
1. Initial setup and configuration was performed in tenant, as per the SAP Hybris Cloud for Customer Administrator Guide.
2 Connect Phase: Check and Prepare SAP ERP System

2.1 ERP Software Components

Note: Remember to update the SPAM to the latest support pack prior to the installation of the Add-on.

Use transaction SAINT to install SAP Add-on CODERINT 600 and use transaction SPAM to implement the support packages in the ERP system.

1. Copy the installation package and support packages to the EPS/in directory within the “trans” directory.

2. Call transaction SAINT and load the packages from the menu Installation Package → Load Package → From Application Server

3. Click Back
4. Click on Start to start the deployment of the Add-on.
5. Double check that the CODERINT add-on is selected and click continue.

6. Click Continue. It is possible to install the add-on together with all the support packages. Select the target support package, and click Continue.
7. Click Continue

8. Click No

9. Select the method of import and click the import button
2.2 Important SAP Notes in ERP (HCI) Integration

We recommend that you install the latest support package, and if necessary find all the relevant notes in the component LO-INT-COD.

You can find the list of all ERP notes that may be relevant in this integration in the SAP Note 2293774.

2.3 Business Configuration Sets

1. Call transaction SCPR20 and enter the BC Set "COD_BYD_ERP_INT".

2. Activate the BC Set clicking in the Activate BC Set button or press the F7 key.

3. Create a transport request that can be used for the activation in other systems.
4. Press Enter

2.4 Create SAP ERP User
1. Open the transaction SU01.
2. In the User field, enter the name of the user you want to create, for example CODINTEG.
3. Choose Create.
4. On the Maintain User screen, enter the data according to the tables below, and save your entries.

<table>
<thead>
<tr>
<th>Tab Page</th>
<th>Field Name</th>
<th>Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Last Name</td>
<td>Add a name, for example CODINTEG</td>
</tr>
<tr>
<td>Logon data</td>
<td>User type</td>
<td>C Communications Data or B System</td>
</tr>
<tr>
<td></td>
<td>Password</td>
<td>&lt;password&gt;</td>
</tr>
<tr>
<td>Roles</td>
<td></td>
<td>Add one of the following roles (see Important SAP Notes): SAP_SD_COD_INTEGRATION or SAP_SD_COD_INTEGRATION_EXT</td>
</tr>
</tbody>
</table>

When certificate authentication is used to connect to HCI, then the CODINTG user is mapped to the HCI client certificate in the next section.
3 Connect Phase: Set up Secure Connection between ERP-HCI-Cloud Systems

3.1 Supported Certification Authorities (HCI Integration)

3.2 Check End-to-End Connectivity

1. Go to transaction SE38 in the SAP ERP system.
2. In Program field enter report name RCOD_CHECK_E2E_CONNECTIVITY
3. Choose Execute.

![ABAP Editor: Initial Screen](image)
4 Configure Phase: Configure Integration in Cloud Solution

4.1 Activate SAP ERP Integration in Scoping

In this section, you activate SAP Hybris Cloud for Customer with SAP ERP, and specify the scope of the integration between the systems.

1. Connect to the SAP Hybris Cloud for Customers system using an Internet browser, and open the Business Configuration tab.

2. Click in All Current Projects.

3. Select the project and click on Edit Project Scope.
How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI

4. Click Next

5. Click Next, and under Communication and Information Exchange → Integration with External Application and Solutions, select Integration with SAP ERP, Integration of Master Data and Integration into Sales, Service and Marketing Processes.

6. Click Next, and under Communication and Information Exchange → Integration with External Application and Solutions → Integration with SAP ERP, select the following scenarios:
   - Do you want to replicate accounts and contacts from your cloud solution to your SAP ERP solution?
   - Do you want to replicate accounts and contacts from your SAP ERP application to your cloud solution?
   - Do you use your SAP ERP system to calculate prices for opportunity items in your cloud solution?
Questions for Integration with SAP ERP

<table>
<thead>
<tr>
<th>Group By</th>
<th>Group</th>
<th>Set as Reviewed</th>
<th>Set as Not Reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Option</td>
<td>Review Sta.</td>
<td>In Scope</td>
<td>Conflict</td>
</tr>
</tbody>
</table>

**Group: Integration of Business Partner Data with SAP ERP (3)**
- Do you want to replicate accounts and contact data from your cloud solution to your SAP ERP solution? Reviewed
- Do you want to block prospects created in Cloud solution, from being replicated to your SAP ERP solution? Reviewed
- Do you want to replicate accounts and contact data from your SAP ERP solution to your cloud solution? Reviewed

**Group: Integration of Sales Pricing with SAP ERP (1)**
- Do you want to use your SAP ERP solution to calculate prices for opportunity items in your cloud solution? Reviewed

7. Under Communication and information Exchange → Integration with External Application and Solutions → Integration of Master Data, select the following scenario:
Do you want to replicate product data from an external application or solution to your cloud solution?

Questions for Integration of Master Data

<table>
<thead>
<tr>
<th>Group By</th>
<th>Group</th>
<th>Set as Reviewed</th>
<th>Set as Not Reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Option</td>
<td>Review Sta.</td>
<td>In Scope</td>
<td>Conflict</td>
</tr>
</tbody>
</table>
- Do you want to replicate business partner data from your cloud solution to an external application or solution? Not Reviewed
- Do you want to replicate account hierarchy data from an external application or solution to your cloud solution? Not Reviewed

**Group: Products (2)**
- Do you want to replicate product data from an external application or solution to your cloud solution? Reviewed
- Do you want to replicate product category data from an external application or solution to your cloud solution? Reviewed

8. Under Communication and information Exchange → Integration with External Application and Solutions → Integration into Sales, Services and Marketing Processes, select the following scenario:

Questions for Integration into Sales, Service, and Marketing Processes

<table>
<thead>
<tr>
<th>Group By</th>
<th>Group</th>
<th>Set as Reviewed</th>
<th>Set as Not Reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Option</td>
<td>Review Sta.</td>
<td>In Scope</td>
<td>Conflict</td>
</tr>
</tbody>
</table>
- Do you want to replicate leads from your cloud solution to External Application? Not Reviewed

**Group: Opportunities (3)**
- Do you want to replicate opportunities from your cloud solution to an external application or solution? Reviewed
- Do you want to replicate opportunities from an external application or solution to your cloud solution? Reviewed
- Do you want to create follow up documents for opportunities from your cloud solution to an external application or solution? Reviewed

Do you want to create follow up documents for opportunities from your cloud solution to an external application or solution?

9. Click Next, and then Finish.
11. Choose Open Activity List.

12. Under Prepare phase, choose the link Confirm Milestone: Design Accepted.

13. Select Design Accepted checkbox and choose Confirm.

4.2 Set Up Communication System

1. Under the tab Administrator, click in Communication Systems.

2. Click New to create a new communication system.

3. Enter the information about the backend ERP system. It is important to note that all the information requested on the screen below is associated with the ERP system (logical system name, SAP client, and so on) with the exception of the host name, which should be the hostname of the worker node of SAP HCI system. In addition, make sure to check the option of “SAP Business Suite”.

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4. Click on Actions → Set to Active

5. Click on Save and Close.

### 4.3 Configure Communication Arrangements

Note: You can find a list of all the communication arrangements and the corresponding service interfaces in the *INTEGRATION: Integration Flow* spreadsheet on SAP Service Marketplace.

#### 4.3.1 Mass Configuration of Communication Arrangements

1. In the SAP Hybris Cloud for Customer system select ADMINISTRATOR WorkCentre select the task Communication Arrangement for On-Premise Systems.
2. In the Select Communication System step maintain the SAP backend integration system and middleware.

![Select Communication System](image)

You can create or update communication arrangements by selecting the on-premise system.

**INTEGRATION DETAILS**
- *Integration with:* [SAP CRM System] [SAP ERP System]
- *Integration Middleware:* [HCI] [FI]

3. In the Communication System details section maintain the SAP ERP System Instance ID and the Code List Mapping as SAP On-Premise Integration.

**COMMUNICATION SYSTEM**
- *System Instance ID:* Q5ECLNT004
- Communication System: Q5ECLNT004
- Code List Mapping: SAP On Premise Integration
4. Click Next

5. Under Communication Arrangements tab, select the communication scenarios relevant for your scope. Click Select All in case you want to configure all of the communication scenarios.

Note: In case you do not see any of the configuration scenarios, re-check the project scoping to add the necessary scoping elements. In the Communication Arrangements step select the communication scenarios relevant for your scope and click Next.


7. Under Outbound tab, adjust the Port and Path if required.

8. Click Next
9. Under **INBOUND COMMUNICATION CREDENTIALS**, select the Authentication Method. For example in this case, SSL Client Certificate is selected. Click **Edit Credentials**.

10. In the Certificate tab, choose **Upload Certificate** and choose the HCI client certificate.
11. Click OK

12. For OUTBOUND COMMUNICATION CREDENTIALS, click Download.

   OUTBOUND COMMUNICATION CREDENTIALS
   Authentication Method: SSL Client Certificate
   Certificate: SAP Business ByDesign System Key Pair
   Host Name: ifmapp001fauceb003avt-bvtdb-006.intas.onedemand.com

13. Download the C4C Client Certificate x.509(example C4CSSLClien.cer) and choose Save. This file has to be uploaded later to HCI iFlow configuration.
14. Click Finish.

![NEW COMMUNICATION ARRANGEMENT: SAP ERP SYSTI](image)

**Inbound Communication Credentials**

- **Authentication Method:** SSL Client Certificate
- **User ID:** QACECLNT004

15. Under Confirmation, click Close.

### 4.3.2 Configure Communication Arrangements for Outbound Communication

**Disclaimer:**

The url’s and the port numbers mentioned in this document are for illustration purpose only. The url and port number varies on your system setup and landscape.

1. In the SAP Hybris Cloud for Customers system select the Administrator Work Center.
2. Under Integration section select hyperlink Communication Arrangements

Integration
Set up and maintain communication with external systems
Communication Systems
Communication Arrangements

3. Edit the communication Arrangements with outbound interfaces, adding the correct URL for the HCI web server. The following table shows an example of the URL that have to be used where we use the Business System or Business Component, For example:

<table>
<thead>
<tr>
<th>Customer Replication</th>
<th>/cxt/COD/ERP/BP_MASTER_REPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Address Replication</td>
<td>/cxt/COD/ERP/BP_ADDRESS_REPLICATION</td>
</tr>
<tr>
<td>Customer Contact Replication</td>
<td>/cxt/COD/ERP/BP_CONTACT_REPLICATION</td>
</tr>
<tr>
<td>Opp with Follow Up</td>
<td>/cxt/COD/ERP/OPPORTUNITY_FOLLOWUP</td>
</tr>
<tr>
<td>Sales Doc Print Preview</td>
<td>/cxt/COD/ERP/OPPT_PRINT_PREVIEW</td>
</tr>
<tr>
<td>Product Pricing</td>
<td>/cxt/COD/ERP/SALESORDERPRICING_REQUEST</td>
</tr>
<tr>
<td>Query Sales Order</td>
<td>/cxt/COD/ERP/SALESORDER_REQUEST</td>
</tr>
</tbody>
</table>

For example, here is URL:
/cxt/COD/ERP/BP_MASTER_REPLICATION

4. Select one of the communication arrangements, and click Edit.

Communication Arrangements
You can view, create, and edit communication arrangements between your company and:

[Show All Communication Arrangements] and Find

[Edit] New Delete Check Completeness Edit Credentials

Communication Scenario - Communication Type
Access documents via WebDAV
Business Partner Replication from SAP ERP Application Integration
[Business Partner Replication to SAP ERP]
Customer Service Portal Integration Application Integration
Customer Service Portal Integration Application Integration

5. Click in the Technical Data Tab.
How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI

6. Click in Edit Advance Settings button.

7. Click in the Outbound Tab.

8. Select each of the outbound services and edit SSL port and Path.
9. Click on Save and Reactivate.

Note.
- Once SAP HCI is configured, you can check if there is connectivity from the cloud system to the HCI system by selecting one of the outbound services and click Check Connection.
- This will only check connectivity with the HCI, and the specific service if there is any problem with SSL certificates or authentication, it will show an error here.
- If the message “Error accessing service; Service Ping ERROR: Method Not Allowed (405)” shows it means that there is connectivity and the authentication works, this can be taken as successful test.
10. Click on Save and Reactivate. Repeat the previous steps for the rest of the communication arrangements with outbound services.
4.4 Export the Root Certificate

1. Navigate to the folder where you have downloaded x.509 certificate (example C4CSSLClient.cer) of SAP Hybris Cloud for Customer Outbound Communication arrangement as explained in previous section.
2. Open the certificate by double clicking on it.
3. In Certification Path tab, select the root certificate and choose View Certificate.
4. In Details tab, click Copy to File.

6. Select the option Base-64 encoded X.509(.CER) and choose Next.

7. Click on Browse to save the certificate as .cer type in your local folder. Provide a name for the certificate and choose Save.

8. Choose Next.

4.5 Determine Short Tenant ID

1. Log in to the SAP Hybris Cloud for Customer system.
2. Choose Communication Arrangements under Administrator → Integration.

3. Select a communication arrangement created above. Example Business Partner Replication from SAP ERP.

4. Note the short tenant ID under My Communication Data → My System.

4.6 Optional: Maintain ERP Number Ranges

2. Select the row that contains your project and choose Open Activity List.


4. Click the link Integration of Business Partner Data from your Cloud Solution to SAP ERP.

5. Ensure the number ranges defined here match with the number ranges defined in the ERP system. Choose Save and Close.
4.7 Perform Code List Mapping

4.7.1 Automated Configuration of Code List Mapping

1. Log in to the SAP Hybris Cloud for Customer system.

2. In the Business Configuration WorkCenter, Choose DOWNLOAD CODE LIST
3. Click on the link "Download Code List".


5. Enter the name of the file you want to download in .zip format. For example, codeList.zip.
6. The Code List will be downloaded in the path you have mentioned.
7. Log onto the ERP Backend that the SAP Hybris Cloud for Customer is connected to.
8. Enter the transaction SE38 and run the report CODD_CODE_LIST_MAPPING.

9. Choose execute.
10. Alternately you can Execute the program CODD_CODE_LIST_MAPPING using the below options.

<table>
<thead>
<tr>
<th>Transaction code</th>
<th>CODD_CODE_LIST_MAPPING</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP ERP IMG menu</td>
<td>Integration With Other mySAP.com Components → Integration With SAP Cloud for Customer → Download ERP Customizing Information for Code Lists</td>
</tr>
</tbody>
</table>

11. Enter the main language and following details:
12. Merged customized directory is where you want the merged code list mappings filled.
13. Cloud for Customer Business configuration File is the codeList.zip file that was downloaded from the SAP Hybris Cloud for Customer system.

15. After this the CodeOutput.zip file is saved in the directory mentioned, this zip contains all the code lists for the mentioned languages.

16. Log in to the SAP Hybris Cloud for Customer system again.
18. Choose Upload Code List:

You can upload the zip archive file containing code lists and code list mappings that was downloaded from external application or solution.

Upload Code List

19. Enter the Code List Mapping Group and select upload.

You can upload the zip archive file containing code lists and code list mappings that was downloaded from external application or solution.

Code List Mapping Group: 03 - SAP On Premise Integration

CSV Delimiter: .
Local and External Code: Upload

20. Choose the CodeOutput.zip file that was generated in the Merged Customizing Directory, mentioned in the ERP Backend.
21. Now the code list mapping in SAP Hybris Cloud for Customer is updated.

4.7.2 Manually Map the Code Lists

1. Connect to the SAP Hybris Cloud for Customers system using an Internet browser, and open the Business Configuration tab.

2. Click in All Current Projects.
3. Select the project, and click on Open Activity List.

4. Click the Fine-Tune tab. Select the row Code List Mapping for Integration with External Application and Solutions and choose Add to Project.

5. Click the link Code List Mapping for Integration with External Application and Solutions

6. Click Maintain Code List Mapping Groups.
7. Choose Add Row to create a mapping group and select base mapping group SAP On-Premise Integration.

8. Choose Save and Close.


10. In the Code List mapping definition section, view all the local data types that can be mapped to external data types.

11. For each mapping group, confirm that the underlying mapping rule and code mappings are valid.
12. In Code List Mapping Rule section, check if existing entries can be used in your system. 
Local And External Code is equal: Values are same in ERP and Cloud Solution
Map Individual Codes: Values are mapped explicitly in Code List Mapping section.

4.8 Create ID Mapping
ID Mapping for Sales Org

1. Under the context menu for the tab ADMINISTRATOR, select the option Edit ID Mapping For Integration.

2. In the "Mapping Of" field, select ERP Sales Organization and in the System Instance ID, select the communication system created in previous steps, and click Go.

3. Enter the external ID of the sales organization that will be mapped from ERP with the sales organization on SAP Hybris Cloud for Customers.
5. Click Save

Create ID Mapping for Product Category

1. Under the context menu for the tab ADMINISTRATOR, select the option Edit ID Mapping for Integration.

2. In the "Mapping Of" field, select ERP Product Categories and in the System Instance ID field, select the communication system created in previous steps, and click Go.
3. Enter the external ID of the product category to be mapped from ERP with the product category on SAP Hybris Cloud for Customers.

4. Click Save.

4.8.1 ID Mapping Using the Microsoft Excel Template

1. In the “Mapping Of” field, select CRM Organizations and Units and in the System Instance ID, select the communication system created in previous steps, and click Go. Next choose ID Mapping to Microsoft Excel.
2. Data is downloaded to an excel file. Open the Excel file and enable Macros if prompted for.

3. Navigate to SAP Add-In and choose Logon.

4. Enter the SAP Hybris Cloud for Customer URL and logon details and click Log On.

5. Make the relevant changes to the Excel file in External ID field and choose Save.

7. An Excel template is downloaded. Open the file and accept macros.

8. Navigate to SAP Hybris Cloud for Customer and choose Logon.

9. Enter the SAP Hybris Cloud for Customer URL and logon details and choose Log On.
10. Copy the content from the excel file where you saved the changes and then choose SAP Add-In \Workbook\Save Date to, to save the data to Cloud.

4.9 Optional: Handling of Inconsistent Address Data

1. Connect to the SAP Hybris Cloud for Customers system using the internet browser and open the Business Configuration tab.

2. Click All Current Projects

3. Choose Open Activity List.
5. Show All Activities and find for Address Checks.
1. Select **Address Checks** and Click button **Add to Project**.

2. Open **Address Checks**.
3. Select the checkbox **Allow Saving of inconsistent address based on your business requirements**.
4. Save and close the activity.
5 Configure Phase: Configure Integration in SAP ERP

5.1 SAP Customizing Implementation Guide in the ERP system

All the customization activities necessary to integrate SAP ERP with SAP Hybris Cloud for Customer are defined in a hierarchical structure in the SAP Implementation Guide structure. The necessary documentation is also made available with the activity.

![Display IMG](image)

5.2 Automatically Generate Integration Settings for Data Exchange

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

<table>
<thead>
<tr>
<th>Transaction code</th>
<th>RCOD_CONNECTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP ERP IMG menu</td>
<td><em>Integration With Other SAP Components</em> → <em>Integration With SAP Cloud for Customer</em> → <em>Communication Setup</em> → <em>Automatically Generate Integration Settings for Data Exchange</em></td>
</tr>
</tbody>
</table>

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2. Choose SAP HANA Cloud Integration as the middleware and choose Next.

3. Select the scope of Integration exactly as scoped in the SAP Hybris Cloud for Customer Solution and choose Next.
4. Choose the Logical system of SAP Hybris Cloud for Customer that you want to connect to. In case the logical system is not created, you can create one using the button Create Logical System. Choose Next.
5. Enter the HCI system worker node URL and for Logon Procedure maintain the PSE folder where the client certificates are imported. choose Next.

6. In the Summary screen select the Generate button to generate the configuration entities.
7. In the confirm pop-up screen choose Yes

8. In the log you can check which entities were created.
5.3 Area Menu

An area menu is now available to consolidate all the commonly used transactions for integrating SAP ERP with the SAP Hybris Cloud for Customer solution.

You can access this area menu in the transaction COD_INT_MENU.
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SAP Easy Access Integrating SAP Cloud for Customer with SAP ERP

- Monitor and Process Errors
  - Monitor IDocs
  - Monitor Scheduled Background Jobs
  - Monitor Transaction RFC Queue
  - Reprocess IDocs After Inbound ALE Errors (Technical Errors)
  - Reprocess IDocs After Inbound ALE Errors (Application Errors)
  - Reprocess Outbound IDocs with Errors
  - Monitor Web Service Errors
  - Forward Error Handling
  - Analyse Application Log

- Periodic Processing
  - Generate IDocs from Change Pointers
  - Delete Change Pointers
  - Send Collected Outbound IDocs
  - Process Collected Inbound IDocs
  - Distribute Time-Dependant Account Hierarchy

- Initial Loading or Resending Objects from SAP ERP to SAP Cloud for Customer
  - Load or Resend Materials
  - Load or Resend Employees
  - Load or Resend Organizational Hierarchy
  - Load or Resend Business Partners
  - Run Consistency Check Before Loading or Resending Account Hierarchy
  - Load or Resend Account Hierarchy

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6 Configure Phase: Configure Integration in SAP HCI

The HANA Cloud Integration can be configured in two ways:
- Using SAP Web UI
- Using SAP Eclipse

6.1 View prepackaged iFlows using SAP HCI 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 iFlows delivered by SAP in the Catalog tab.
3. Click on the package SAP Hybris Cloud for Customer Integration with ERP.

4. For each iFlow, select the Download view option, to view all iFlow relevant metadata.

6.2 Configure and Deploy the iFlow Using SAP Web UI

Mass Configuration of iFlows on the Web UI.

1. Connect to the tenant management node of the HCI system to the url http://<tenant management node>/itspaces
2. Hover your mouse on the content package, for example: SAP Hybris Cloud for Customer Integration with SAP ERP (select the required version) and choose Copy to Workspace.
3. If the Integration package is being created first time, then you would see the message 'Integration Package Created'. If not, you will see the below pop-up asking to either create a new copy of the package or to overwrite the existing integration package content.

   Messages

   Could not copy integration package due to duplicate resource values of the following integration content(s)

4. Select the Design mode to configure the iFlows.

5. Select the Integration Package copied. You should see all the iFlows under the package.
6. Click on the Package Content. All the iFlows will be shown/ listed in the right side of the page.
7. Select the iFlows you want to configure and choose Actions button in the right and select Configure. Note: You can also configure a single iFlow or do a mass configuration by checking multiple artifacts.

8. Confirm the Information message by choosing OK.

9. Configure the sender system (in this example ERP) and receiver system (in this example COD) details. Choose Certificate based authentication from the dropdown and import the ERP Client certificate using Browse button. For the receiver, enter the host name and port details of the COD system.
10. Choose Deploy.

11. The integration flows are deployed in the HCI tenant.

6.3 View and Extend the Deployed iFlow Using SAP Eclipse

6.3.1 Download the iFlow projects on your desktop

1. Connect to the tenant management node of the HCI system to the url http://<tenant management node>/itspaces

2. Click on the link SAP Hybris Cloud for Customer Integration with SAP ERP.(1505)

3. Select the check box Artifacts and click on the download button on the right.
4. To download single iFlow, select actions button in the row of iFlow and select Download.

5. Once the artifact is downloaded save it into a directory

   com.sap.sandata.scenarios.ep2.cod.contactpartnersaddress.zip
   com.sap.sandata.scenarios.ep2.cod.customermasterreplicate.zip
   com.sap.sandata.scenarios.ep2.cod.materialreplicate.zip
   com.sap.sandata.scenarios.ep2.cod.opportunityfollowupnotification.zip
   com.sap.sandata.scenarios.ep2.cod.organizationaddress.zip

6.3.2 Import the iFlow projects into the local workspace

1. Open eclipse and open the Integration Designer perspective

2. In the Project Explore, right-click and select the option Import → Import.
3. Select the option **General ➔ Existing Projects into Workspace** and click **Next**.

4. In the next screens, browse for the directory where you have extracted the zip files and click **Finish**.
5. Now all the artifacts (projects) are imported into Eclipse

![Import Projects dialog](image)

6.3.3 View the configured certificates and externalized parameters

1. In the Project Explorer expand the tree view and double-click to open the iFlow found under src.main.resources.scenarioflows.integrationflows
2. In the Integration Designer, select the iFlow.
3. Within the iFlow, select the sender system and under Properties tab
4. If you wish to update the authentication of the iFlow to Basic Authentication, it is possible by selecting the mode of authentication as Basic Authentication. For more information on configuring basic authentication, see How-To guides.

**Note**

When using Basic Authentication make sure to create new SCN user or use the existing SCN user and password to authenticate into HCI. The SAP SCN can be accessed from https://scn.sap.com.

5. For Certificate-based Authentication, view the details under the Properties tab.
6. To view the configuration of the iFlow, click on Externalized Parameters tab, under the Value field, and view the configured <host>:<port> information of the receiver system.

### 6.3.4 Extend the Project in Eclipse and Deploy

1. To extend the iFlow, you can make modifications to either of the folders.
   - `src.main.resources.mapping`
   - `src.main.resources.scenarioflows.integrationflow`
   - `src.main.resources.wsdl`

2. Deploy the modified iFlow project by right clicking at iFlow project level and choose Deploy Integration Content.
3. Enter the Tenant ID and click OK.

6.3.5 Maintain Value Mapping between Cloud and ERP in HCI

1. Open the value_mapping.xml file within the project com.sap.sod.scenarios.valuemapping from the Integration Designer perspective.

2. Maintain the value mapping by providing source agency name, source schema name, source value with respective target agency name, target schema name and target value. Below is an example of COD ReceiverParty and ERP ReceiverPort value mapping.

3. Save the value_mapping.xml file.
4. Select the project for deployment by right clicking on the context menu from the Integration Designer perspective and choose Deploy Integration Content.

5. Enter the Tenant ID and click OK.

6. Click OK – Within the Console tab it is possible to see if the deployment process was successful.
Maintain the mapping for all other values as shown in the table in Chapter Maintain Value Mapping of the Integration Guide.
7 **Data Load Phase: Perform ERP Initial Data Load**

1. In SAP ERP system, execute transaction BD10 for Material Master.
2. Enter the Material you want to send to SAP Hybris Cloud for Customer system, Message type as MATMAS_CFS and Logical system created for SAP Hybris Cloud for Customer.

3. Choose Execute.

4. To replicate Customer Master, execute transaction BD12.
5. Enter the Customer you want to send to SAP Hybris Cloud for Customer, Output Type as DEBMAS_CFS and Logical System of SAP Hybris Cloud for Customer.

6. Choose Execute.

7. To replicate Sales org, execute transaction SE38.
8. In program field enter the report name COD_ERP_ORG_UNIT_EXTRACT and choose Execute.
9. Under Organizational Data, enter the criteria of the sales org unit which needs to be replicated, language as EN, Partner Number of Receiver of the SAP Hybris Cloud for Customer and choose Execute.

10. To replicate Customer hierarchy, execute transaction SE38.
11. In program field enter the report name RCOD_CUSTHIER_EXTRACT and choose Execute.
12. Enter the details in the report like Customer Hierarchy type, Sales org, Distribution Channel, Division, Customer, Reference Date and Logical system of SAP Hybris Cloud for Customer and choose Execute.

Note: Use transaction WE05 to check if the IDoc were processed successfully.
8 Monitor Phase: Monitor Message Flow Across Systems

Refer to the 'Monitoring Guide' to monitor data flow from SAP ERP to SAP Hybris Cloud for Customer System and vice versa.
Appendix

9.1 Create copy of Security Roles

1. Call transaction PFCG
2. Enter the role SAP_SD_COD_INTEGRATION and create a copy of it

![Role Maintenance Image]

9.2 Download Root SSL certificate for SAP HCI

1. Open a web explorer and enter the URL of the worker node that was provided in the onboarding e-mail adding the path /cxl at the end, for example:

   https://<host>:<port>/cxl

   No service was found.

2. When connected use the web explorer to get the certificate, for example in Google® Chrome you click on the lock icon at the left end of the URL and then click on certificate information.
3. In the Certification Path tab select first root certificate Baltimore CyberTrust Root and click View Certificate.

4. Select the Details tab and click the Copy to File… button.
5. Click Next

6. Select Base-64 encoded x.509 (.CER) and click Next.
7. Select the location of the file and click Next.

8. Click Finish
9. Follow the same steps for the second root certificate, Cybertrust Public SureServer SV CA.

9.3 **Load Root Certificate Used to Sign HCI SSL Server Certificate into SSL Client**

1. Call transaction STRUST
2. Open the SSL Client SSL client Standard PSE

3. In the Certificate area, click the Import Certificate button.

4. Depending on the format of the certificate, select either Binary or Base64 and find the root certificate used to sign the HCI SSL server certificate (Import the two certificates that were saved in the previous step)
5. Add the imported certificate to the certificate list by clicking Add to Certificate List.

6. Repeat the previous two steps for the second root certificate, and save the changes.
9.4 Load Root Certificate Used to Sign HCI SSL Client Certificate for x.509 Authentication into SSL Server Standard

1. Call transaction STRUST

2. Open the SSL Server Standard PSE

3. In the Certificate area click in the Import Certificate button.
4. Depending of the format of the certificate, select either Binary or Base64 and find the root certificate used to sign the HCI SSL client certificate (in most of the cases is SAP Passport).

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

6. Save the changes.
How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI
9.5 Export Public Key for SSL Client

1. Call transaction STRUST

![Trust Manager](image1)

2. Open the SSL Client SSL Client Standard PSE

![Trust Manager](image2)

3. Double click in the Own certificate. This will load the certificate to the Certificate section.
4. Click the Export button.

5. Save the certificate into a file.

9.6 Authorization Profile for a role
1. Call transaction PFCG
2. Enter the role SAP_SD_COD_INTEGRATION_EXT and create a copy of it.
3. Look for the security object S_SERVICE under Cross-application Authorization Objects, and change the field SRV_NAME.

4. Add the following services:
5. Save and generate the profile.

9.7 Configure SSL Client Certificates for On-Premise

1. Call transaction SM30
2. Enter the name of the view VUSREXTID in the Table/View field and click the Maintain button.

3. In the external ID type enter ‘DN’, and click Continue.

4. Create a new entry by clicking in the New Entries button.
5. Click the Import button to import the public client certificate from the SAP HCI system.

6. Select the file that contains the public certificate and click Open.

7. Enter the sequence, by example 000, the User id created in the previous step and check the Activated check box.
8. Click the Save button.

9.8 Register Service for IDoc Inbound

1. Open the Transaction SRTIDOC.
2. Select the Register service checkbox and maintain the following values.

3. Choose execute.

9.9 Maintain Requirement Routine

1. Call transaction VOFM and click on menu Requirements → Output Control.
How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI

2. At the bottom of the table enter an unused number greater than 600 and assign application V1.

3. Click Save

4. Select the new entry and click on Source Text.

5. Insert the following code, save and activate.
   FORM kobed_xxx.
   *We only trigger the confirmation back to 'Cloud for Customer'
   *If the document is complete and if an opportunity document is
   *referenced.
   IF komkbv1-uvall EQ 'C' AND
   cl_cod_oppt_confirmation=>is_relevant( komkbv1 ) = abap_true.
   sy-subrc = 0.
   ELSE.
9.10 Maintain Output Determination Procedure

1. In the SAP IMG Follow the Navigation path

   Sales and Distribution → Basic Functions → Output Control → Output Determination → Output Determination Using the Condition Technique → Maintain Output Determination for Sales Documents → Maintain Output Determination Procedure.

   Alternatively call transaction SM34 to maintain view VVC_T683_XX_V1.

2. Mark the output determination procedure assigned to the order type Inquiry Output. In the Customizing delivered as standard, this is procedure V05000.
3. Choose Control Data within the Dialog Structure view.

4. Choose New Entries and assign the output COD1.

5. Save the entry and return to the procedures.
6. Repeat the process for other output determination procedures mentioned in the Integration guide.
9.11 Maintain Output Record

1. Call transaction VV11 and use the output type COD1.

2. From menu output conditions, select Create with template.

3. Create the following entries:

9.12 Activate Event Linkage

1. Call transaction SWETYPV.
2. Open object type BUS2030 and the event CREATED, Choose Details, and check the Linkage Activated checkbox.

### 9.13 Maintain Endpoints for Services

**Purpose**

The access URL of the endpoint that is obtained while configuring the SAP Hybris Cloud for Customer system to establish the synchronous requests.

**Procedure**

1. Navigate using one of the following method.

<table>
<thead>
<tr>
<th>Transaction Code</th>
<th>SAP ERP IMG menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAMANAGER</td>
<td>Integration With Other SAP Components → Integration With SAP Cloud for Customer → Communication Setup → Manually Adjust Integration Settings for Data Exchange → Configuration in SOA Management</td>
</tr>
</tbody>
</table>

2. Click on Simplified Web Service Configuration under Service Administration.
### How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI

1. Call transaction SALE, IDOC Interface / Application Link Enabling (ALE) -> Modeling and Implementing Business Processes -> Master Data Replication -> Replication of Modified Data
2. Click on Activate Change Pointers – Generally and enable the setting.

3. Click back and open the option Activate Change Pointer for Message Types, and select the active checkbox for the message types mentioned in the configuration Guide:

For example:
9.15 Work Ticket Integration
Refer to the ‘Quick Start Guide’ to integrate Work tickets in Cloud into controlling in SAP ERP.

9.16 Configuration to replicate international customer names and addresses

1. Call transaction SPRO in your on-premise SAP ERP system.

3. Choose Continue.
4. Activate the address versions that you want to have in the system by checking the Active checkbox. Choose Save.
5. In your SAP Hybris Cloud for Customer system, open the Business Configuration tab.

6. Click All Current Projects.
7. Select the Project and choose Edit Project Scope.

8. Click Next twice.
9. In Scoping, make sure that Built-in Services and Support → Business Environment → Addresses and Languages are selected.
10. Click Next.
11. In the Questions tab, choose the Option Do you want to specify textual master data using international address versions?
12. In the same screen, choose the relevant languages that you want to have it in your system.
13. Finish the Scoping and Open the Activity List.
15. Choose All Activities from the Show dropdown and search for Additional Communication Languages.
16. Select the activity Additional Communication Languages and Choose Add to Project

17. Choose the activity Additional Communication Languages.
18. Choose Language is Allowed for the languages that you want to have in your system. Choose Save and Close.

Note: - Once an international address is maintained in Cloud, the system does not allow you to disable this feature.

9.17 Configuration to send attachments from SAP ERP to SAP Hybris Cloud for Customer

1. Call transaction SOAMANAGER and login with your credentials if asked for.

2. Choose Web Service Configuration under the tab Service Administration.
3. Select Object Type as Consumer Proxy and enter object name as: CO_CODERINT_ATTACHMENT_FOLDER and choose Search. Select the hyperlink in the result list.

4. Under Configurations, choose Create Service.
5. Enter Logical port Name, Description and select the check box Logical port is default. Choose Next.

7. Under HTTPS settings maintain the following values
   * **URL Access Path**: Endpoint in HCI
   * **Computer Name of Access URL**: worker node URL of HCI
   * Choose **Next**.
8. On the SOAP protocol maintain the values as shown below and choose Next.

9. On Identifiable Business context maintain default values. Choose **Next**.

11. Choose Save.

**9.18 Configuration to send attachments from SAP Hybris Cloud for Customer to SAP ERP**

1. Select Object Type as *All* and Object Name as *ATTACHMENTFOLDERREPLICATIONRE1* and choose *Search*. Select the hyperlink in the result list.
2. Under Configurations, choose *Create Service*.

3. Service and Binding Name provide Service Name, Description, and Binding Name. Choose *Next*.

5. On SOAP Protocol Enter the Calculated Access URL and Calculated protocol and Choose Next.

7. Service definition is created and binding is generated.

8. Choose Back.

9.19 SAP Hybris Cloud for Customer Configuration

9.19.1 Manually Create or Edit Communication Arrangements

1. Under the tab Administrator, click in Communication Arrangements.
2. Create the communication arrangements for the scenarios mentioned in the configuration guide:
3. For example, to create the CA for Product Replication, Click in New.

Communication Arrangements
You can view, create, and edit communication arrangements between your company and customers or

4. Select the CA to be created, and click Next

NEW COMMUNICATION ARRANGEMENT:

5. Select the communication system and the code list mapping, and click Next.
6. Select the protocol “Web Service” and the required authentication method. For example, in the case shown below, User ID and Password are selected.

7. Edit the password or the certificate of the service account by clicking “Edit Credentials”.

Note. If certificate is used, the client x.509 certificate from HCI will have to be uploaded here under the certificate tab.

8. In the case of a communication agreement that has outbound communication, configure the outbound communication.
9. Click Next and then Finish.

9.19.2 Configure MS Outlook/Lotus Notes (Optional)

1. Choose Work Center View:

<table>
<thead>
<tr>
<th>Work Center</th>
<th>BUSINESS CONFIGURATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>View</td>
<td>IMPLEMENTATION PROJECTS</td>
</tr>
</tbody>
</table>

2. Select First Implementation project.
3. Choose Edit Project Scope button.
4. In the Scoping step, maintain the following values and choose Next.

Note: For more information refer to the link Communication Arrangement Setup.
How to Configure Integration between SAP ERP and SAP Hybris Cloud for Customer using SAP HCI

5. In the Questions step, navigate using the following path.
6. Mark In Scope for below Elements

<table>
<thead>
<tr>
<th>Scoping Element L1</th>
<th>Scoping Element L2</th>
<th>Scoping Element L3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication and Information Exchange</td>
<td>People Collaboration, Intranet, and External Services</td>
<td>&lt;all&gt;</td>
</tr>
<tr>
<td>Communication and Information Exchange</td>
<td>Office and Desktop Integration</td>
<td>Microsoft Office Integration</td>
</tr>
<tr>
<td>Communication and Information Exchange</td>
<td>Office and Desktop Integration</td>
<td>Integration with Local E-Mail Applications</td>
</tr>
</tbody>
</table>

You can synchronize data between your SAP cloud solution and your users’ local e-mail application (Microsoft Outlook or IBM Lotus Notes).

7. Choose Finish to complete the scoping.

**9.19.3 Customize Business role with Forecast and Reports (Optional)**

1. Navigate to below work center.

<table>
<thead>
<tr>
<th>Work Center</th>
<th>View</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMINISTRATOR</td>
<td>GENERAL SETTINGS</td>
</tr>
</tbody>
</table>

2. Select the Business role SALES_ROLE (Sales Rep).
3. Choose the tab WORK CENTER AND VIEW ASSIGNMENTS.
4. Select below assignment.

<table>
<thead>
<tr>
<th>Tab</th>
<th>Work Center/View ID</th>
<th>Work Center/View Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>WORK CENTER AND VIEW ASSIGNMENTS</td>
<td>COD_FORECAST_WCVIEW</td>
<td>Sales -&gt; Forecasts</td>
</tr>
<tr>
<td>WORK CENTER AND VIEW ASSIGNMENTS</td>
<td>COD_ANALYSIS</td>
<td>Analysis</td>
</tr>
</tbody>
</table>

5. Save and close the business roles page.

**9.19.4 Configure Single Sign-On (Optional)**

**Pre-Requisites**

1. Identity Provider like SAP NetWeaver Identity Management or SAP NetWeaver Single-Sign-On (SAP NetWeaver SSO) must have been installed in the system landscape.
2. Identity Provider configuration is already complete in the SAP NetWeaver Application Server (AS) Java.
3. Meta Data XML file of the Identity Provider system is already available with you.
4. Service Provider like SAP Hybris Cloud for Customer system is added as a trusted provider in the IDP and vice versa.
5. Identity Provider's certificate is stored in SAP Hybris Cloud for Customer system, in STRUST transaction.
6. SAP Hybris Cloud for Customer system's certificate is added to the Key Storage of the Identity Provider system.

Disclaimer
Pre-Requisites and Procedure may vary depend on your Identity Provider and the configurations done in the Identity Provider.

Procedure

1. Navigate to the following Work Center View.
   
   Work Center | APPLICATION AND USER MANAGEMENT
   View        | COMMON TASKS → Configure Single Sign-On

2. Choose My System.
3. Under General → Download Metadata, depending on the type of metadata acceptable to your identity provider, choose either of the following:
4. SP Metadata (Service Provider Metadata)
5. STS Metadata (Security Token Service Metadata)
6. Save the XML file to your local work space for upload into the Identity Provider.
8. For the field URL Sent to Employee, Choose Automatic Selection.
9. Choose Identity Provider tab and then Choose "New Identity Provider"
10. Upload the metadata XML file that you have downloaded from your Identity Provider system. By importing the metadata the system automatically uploads the required signature certificate and encryption certificate.
11. Choose Activate Single Sign-On and then Choose Save for saving the changes.
12. Confirm the pop up window by choosing OK.

9.20 SAP ERP Configuration
9.20.1 Define Logical System

Creating Logical system representing the Cloud Solution.

1. Open one of the communication arrangements previously created.
2. Select the communication arrangement and click Edit.

Communication Arrangements
You can view, create, and edit communication arrangements between your company and customers or suppliers with whom you

<table>
<thead>
<tr>
<th>Communication Scenario</th>
<th>Communication Type</th>
<th>Communication Partner</th>
</tr>
</thead>
<tbody>
<tr>
<td>360 Overview – Account</td>
<td>Application Integration</td>
<td>ACCOUNT_360_INTEGRITY</td>
</tr>
<tr>
<td>Access documents via WebDyn</td>
<td>Application Integration</td>
<td>ODP_ID</td>
</tr>
<tr>
<td>Product Replication with Sales Data from External System</td>
<td>Application Integration</td>
<td>QSECLNT004</td>
</tr>
</tbody>
</table>

Details: Product Replication with Sales Data from External System
Communication Method: Direct Connection

3. The logical system name is the “My System” field. Right click in the field and click Copy

4. Call transaction BD54 on SAP ERP.
5. Create the logical system by clicking New Entries.

![Change View "Logical Systems": Overview](image)

6. Enter the logical system name and a description.

![New Entries: Overview of Added Entries](image)

7. Click Save

### 9.20.2 Define Number Interval for Customers

1. Call transaction SNUM and enter the object DEBITOR.

![Number Range Object Maintenance](image)

2. Click Ranges.
3. Click Change Intervals

4. Create the intervals as shows as follow, using a number range that is available in the system.

![Customer Number Ranges](image)

### 9.20.3 Define Number Intervals for Customer Contacts

1. Call transaction SNUM, and enter the object PARTNER.

![Range Maintenance: Partner](image)

2. Click on Ranges.
3. Click on Change Intervals.
4. Create the intervals as shows as follow, using a number range that is available in the system.

### 9.21 SAP HCI Configuration

#### 9.21.1 Using Eclipse and the Integration Designer adjust the hostname for the COD2ERP and ERP2COD scenario

1. Select one of the artifacts (projects) Now all the artifacts (projects), expand the section src.main.resources and open the file parameters.prop
2. For the scenarios that flow from SAP Hybris Cloud for Customers to SAP ERP On-premise replace the hostname, port and client of the ERP system.

3. Note. The hostname is the actual DNS name on how the ERP system will be accessible from the internet, in most of the cases this should be the Internet DNS name of the reverse proxy, the same applies for the port, which is the port number of the SSL service on how the system is accessible from the Internet.

4. The same has to be repeated for the rest of the artifacts (projects) with the difference for the scenarios where the data flows from SAP ERP On-premise to SAP Hybris Cloud for Customers where the hostname and ports are for the SAP Hybris Cloud for Customers system.
9.21.2 Configure iFlows using Eclipse Certificate Based Authentication

Add x.509 sender certificate to iFlows for COD2ERP scenarios

Note: This Procedure is relevant if you are using Certificate based authentication.

1. In the case of the scenarios where the data flows from SAP Hybris Cloud for Customers to the SAP ERP On-premise we need to add the x.509 client certificate from the SAP Hybris Cloud for Customers system into the iFlow. First we need to download the certificate from the SAP Hybris Cloud for Customers, Connect to the SAP Hybris Cloud for Customers system using an Internet browser and open the Administrator tab.

2. Click in the communication arrangements link.

3. Select one of the communication arrangements that was created in previous steps and click on Edit.
4. Select Technical Data tab

**BUSINESS DATA**

**COMMUNICATION SYSTEM**

Communication System ID: Q5ECLNT004

System Instance ID: Q5ECLNT004

Code List Mapping: SAP On Premise Integration

5. In the outbound basic settings section we will download the client certificate clicking in the download button

**OUTBOUND COMMUNICATIONS: BASIC SETTINGS**

Outbound Communication Enabled: 

Application Protocol: Format Conversion

Authentication Method: SSL Client Certificate

Certificate: SAP Business ByDesign System Key Pair

Host Name: ifhmapaixseodw003avtdmo-sodw003.bsn.neo.oncemanc

6. Select the location where you want to download the certificate, type the name of the file and click on Save

7. Once we have the x.509 client certificate from the SAP Hybris Cloud for Customers available, now we can uploaded to the iFlow, within the artifact (project) using eclipse. For this we need to open the iFlow selecting project (projects with the name COD2ERP) à src.main.resources.scenarioflows.integrationflow à the iFlow name
8. Double click on the sender (COD)

9. Click on browse
10. Select the certificate that was exported in previous steps and click Open

11. Now the certificate was imported into the iFlow

12. Click on Save to save the changes in the iFlow and close it
Note. You can follow the same steps from 7 to 12 to import the certificate into the rest of the iFlows used for SAP Hybris Cloud for Customers to SAP ERP On-premise.

**Add x.509 sender certificate for to iFlows for ERP2COD scenarios**

Note: This Procedure is relevant if you are using Certificate based authentication.

1. From the SAP ERP On-premise system call transaction STRUST

2. Open the SSL Client SSL client Standard PSE
3. Double click in the own certificate. This will load the certificate into the Certificate section.

4. Click the Export button.

5. Save the certificate into a file.
6. From Eclipse open one of the iFlows used for communication from SAP ERP to SAP Hybris Cloud for Customers opening the artifact à src.main.resources.scenarioflows.integrationflow à the iFlow

7. Open the sender ERP system
8. Click browse

9. Select the file that was exported in previous steps and click Open
10. **Save and close the iFlow**

Note. You can follow the same steps from 6 to 12 to import the certificate into the rest of the iFlows used for SAP ERP On-premise to SAP Hybris Cloud for Customers.

9.21.3 **Configure iFlows using Eclipse for Basic Authentication (Optional)**

9.21.3.1 **Create credentials artifact for basic authentication and assign to iFlow**

1. There is an option to configure basic authentication from HCI to either SAP Hybris Cloud for Customers using basic authentication instead of x.509 certificates. For this the first step is to deploy a basic authentication artifact, from Eclipse open the tenant by double clicking in the tenant name from the node explorer section in the integration designer perspective.
2. Click in the Deployed Artifacts tab

3. Click in the Deploy ... button

4. Select Basic Authentication and click Next
5. Select the Type Default, Enter a name, description, the user ID and password for the user used to connect to the remote system and click Finish.
6. Click OK when it finishes the deployment of the artifact

7. Now this artifact will be showed in the deployed artifacts tab

8. To use the artifact to login to a remote system, we need to configured from within the iFlow in the receiver system, open the iFlow that needs to be adjusted

9. Select the connection to the receiver system and double click on it
10. Select the Adapter Specific tab

11. Select the checkbox option for Connect using Basic Authentication

12. Enter the name of the Basic Authentication artifact that was deployed before
13. Save and close the iFlow.

9.21.3.2 Configure iFlow to accept basic authentication

Note: Available from 1405 version of SAP Hybris Cloud for Customer.

1. In case it is desire to use basic authentication to connect from SAP Hybris Cloud for Customers or SAP ERP On-premise to SAP HCI using basic authentication, this has to be configured within the iFlow on the sender system, using Eclipse open the iFlow.

2. Select the sender system
3. Select the check box Allow Basic Authentication

4. Now it is possible to use a valid SCN user that was provided with the required permissions to consume the web service for this specific scenario

5. Save and close the iFlow

9.21.4 Deploy project from Eclipse to SAP Hana Cloud Integration

1. Once the artifact were adjusted we can deploy them to the tenant selecting the artifact (project) and right click on it
2. Click in the option of Deploy Integration Content
3. Enter the name of the HCI tenant and click OK

4. Click OK

9.21.5 Check if the projects got deployed from the Deployed Artifacts

1. From Deployed Artifact tab sort the artifact using the Deployed On column to see the latest deployed artifact
2. From there you will see all the deployed artifacts and validate that the artifact was deployed.