Hands-On CPI instructions

Run Simple

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PREREQUISITES

i. Cloud Platform Integration tenant on SAP Cloud Platform

You require a Cloud Platform Integration tenant on SAP Cloud Platform, if you already have an SAP Cloud Platform Integration tenant you can skip this step.

Follow the instructions at Set Up Your Trial SAP Cloud Platform Integration Tenant to create your CPI trial tenant.

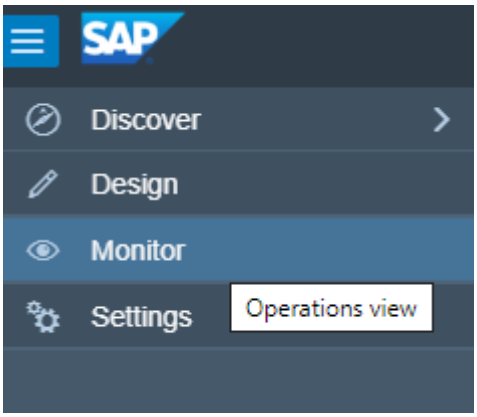
ii. Import oData services into your SAP Business ByDesign tenant (not required for B1)

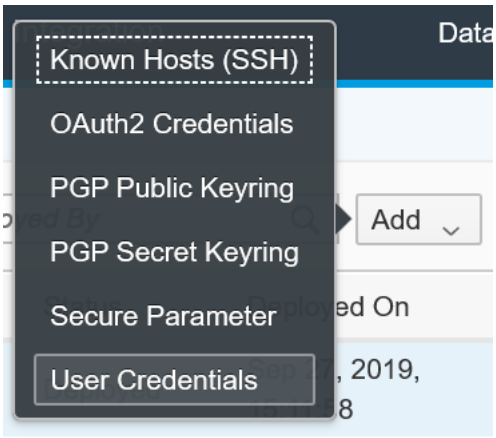
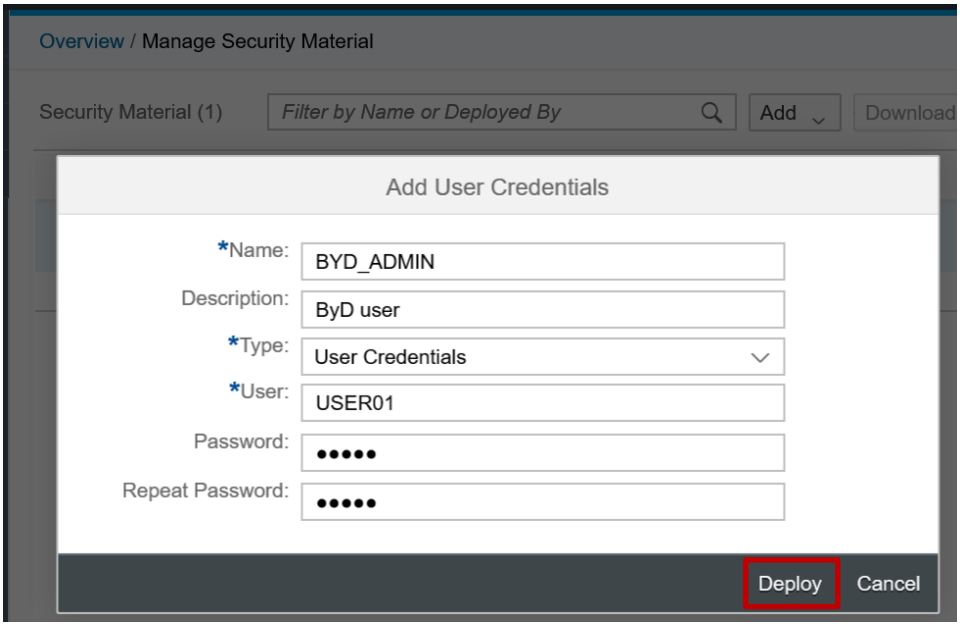
Read the explanations in the following blog to learn more about OData API Samples:
https://blogs.sap.com/2019/02/27/sap-business-bydesign-api-usage-samples/

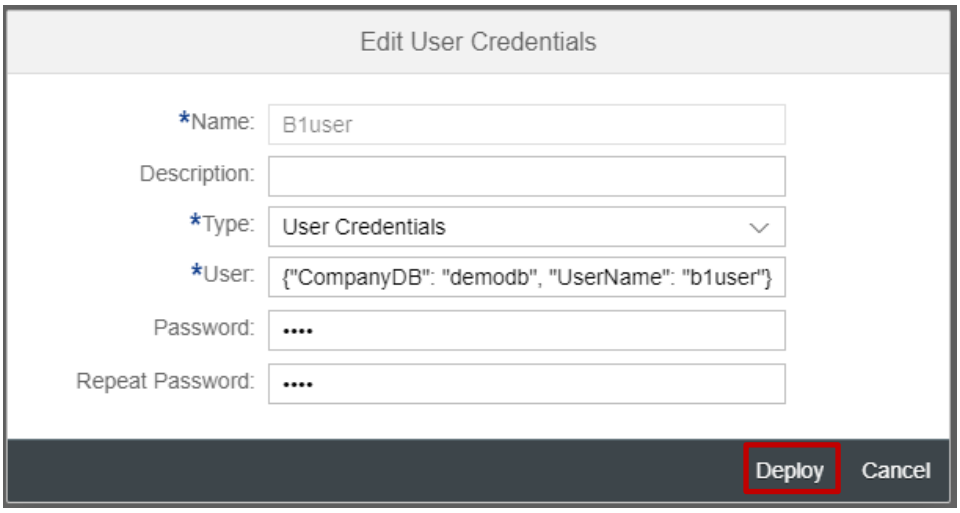
Go to the following repository to understand how to download and import the provided OData API samples provided:
https://github.com/SAP/sapbydesign-api-samples
Go to the **Configuration** section in the Github repository README.txt file to understand the steps to follow in order to import the OData API samples provided into your SAP Business ByDesign tenant.

We are using the khsalesorder OData service in these exercises, only that service requires then to be imported.

iii. Store B1 and/or ByD User Credentials at SAP Cloud Platform Integration tenant

Explanation	Screenshot
Chose the Operations/Monitor view.	

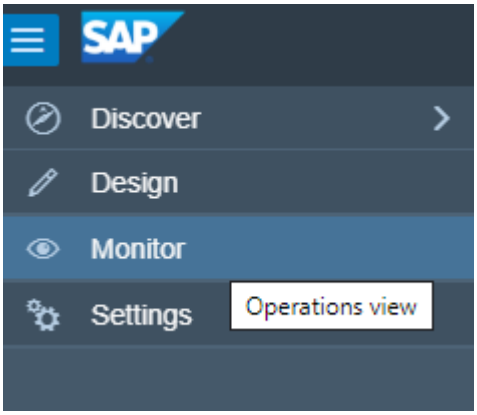
Explanation	Screenshot
Go to the **Manage Security** section, **Security Material** tile.	
Select **Add** and choose **User Credentials**.	
For ByD: Enter a **name** for the User Credentials, a **ByD user** and **password**. Make sure the Type is **User Credentials**. Press **Deploy** to save the credentials.	

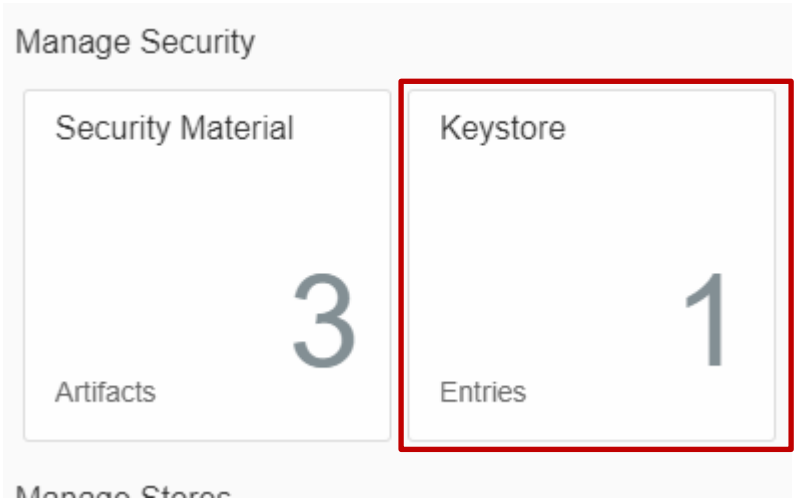
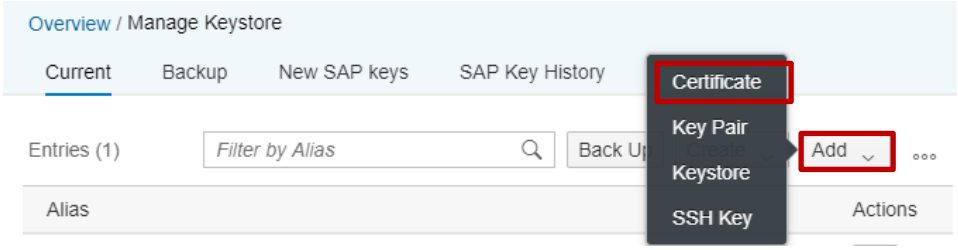
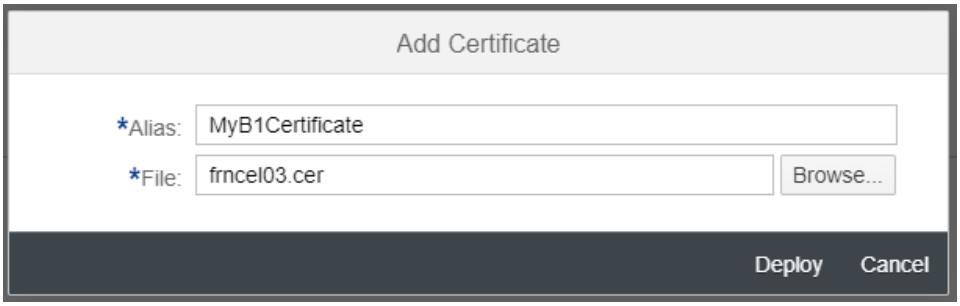
Explanation	Screenshot
For B1: Enter a **name** for the User Credentials, a **B1 user** (json format containing the CompanyDB and the UserName) and **password**. Make sure the Type is **User Credentials**. Press **Deploy** to save the credentials.	

iv. For B1: create a CPI Keystore (not required for ByD)

In order to be able to connect to SAP Business One Service Layer from SAP Cloud Platform Integration via OData v4, B1 certificate needs to be imported into CPI as a Keystore.
You can find more details about this topic in the blog Cloud Integration – How to Setup Secure Outbound HTTP Connection using Keystore Monitor.

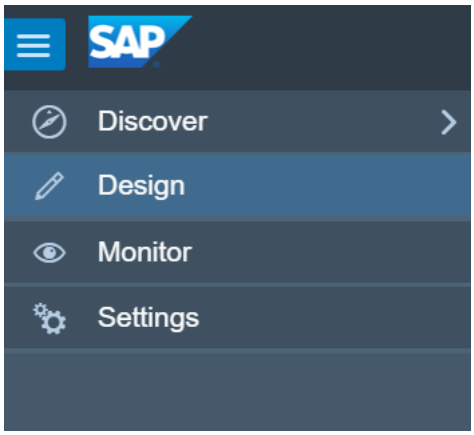
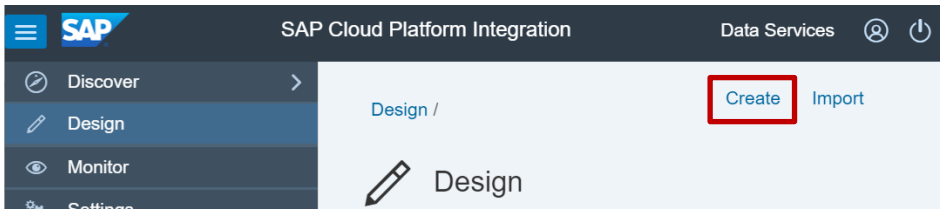
Before following the next steps please make sure you have your B1 certificate saved as a file in your disk.

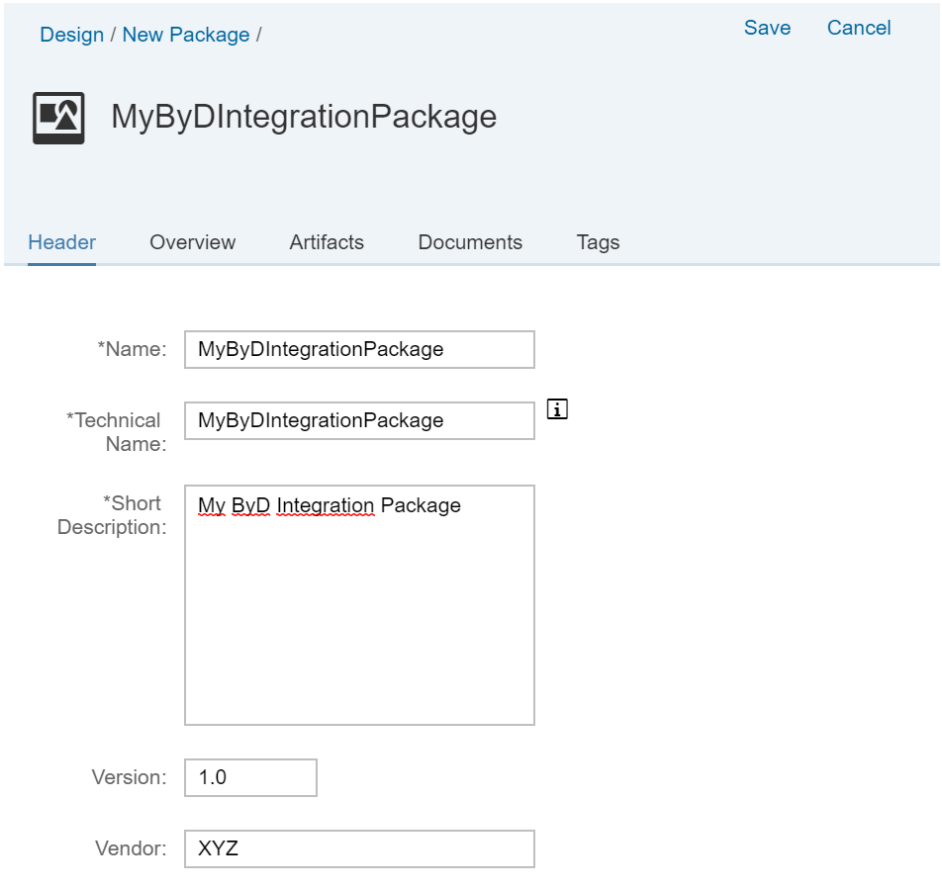
Explanation	Screenshot
Chose the Operations/Monitor view.	

Explanation	Screenshot
Go to the **Manage Security** section, **Keystore** tile.	
Choose **Add** -> **Certificate** to create a new Keystore containing B1 certificate.	
Enter an **Alias** for your **certificate** and select your B1 certificate file. Press **Deploy** to add the certificate to the keystore.	

STEP 1: CREATE AN INTEGRATION PACKAGE

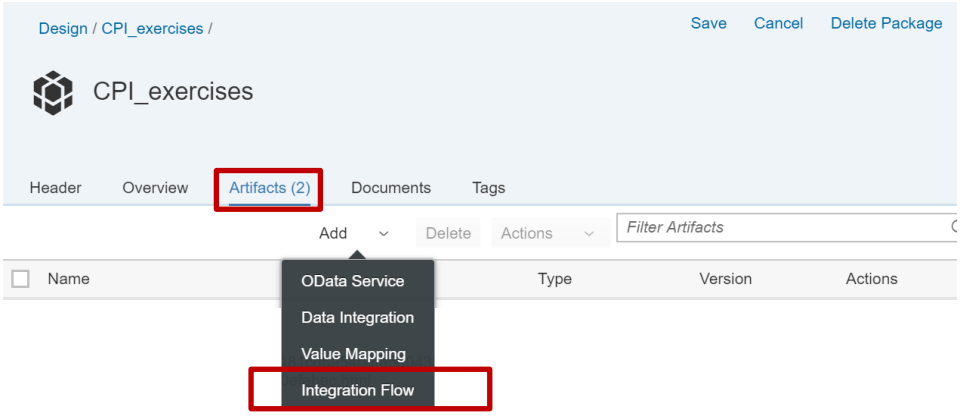
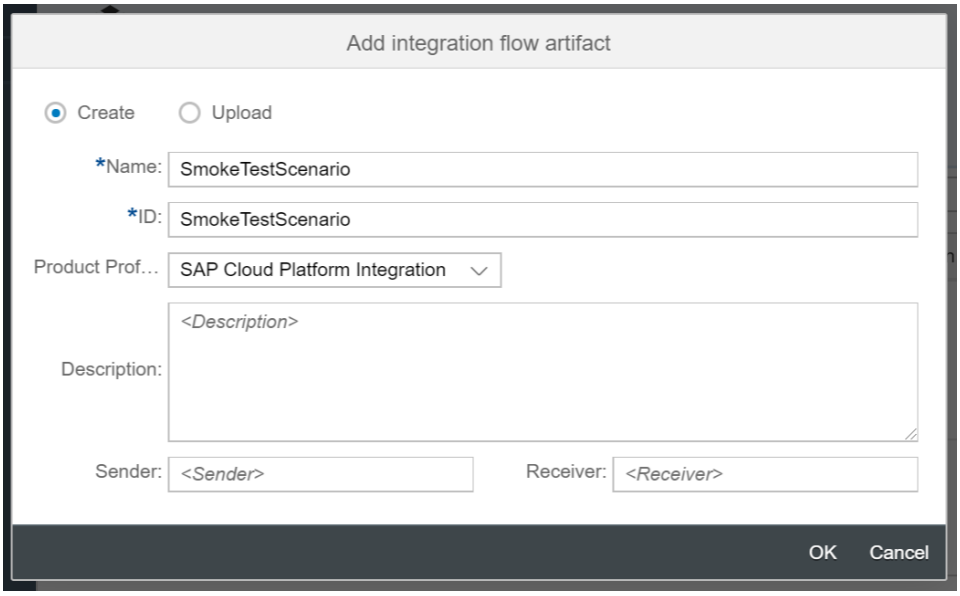
Create an integration package that contains your integration flows.

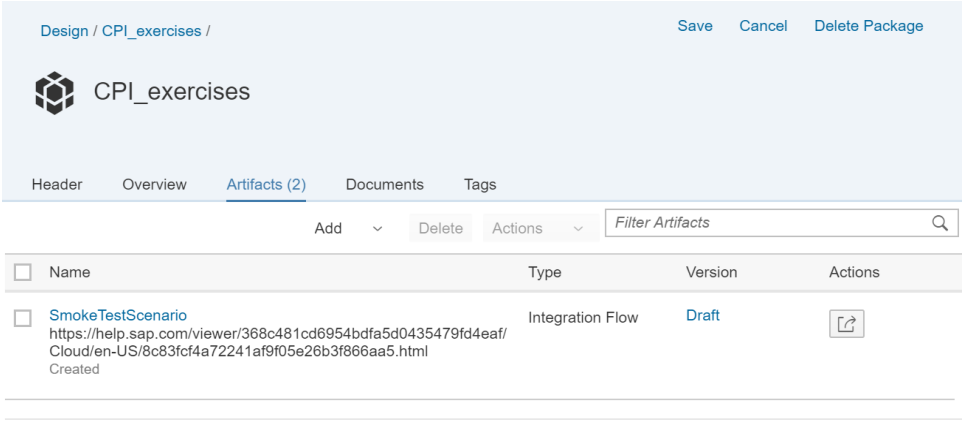
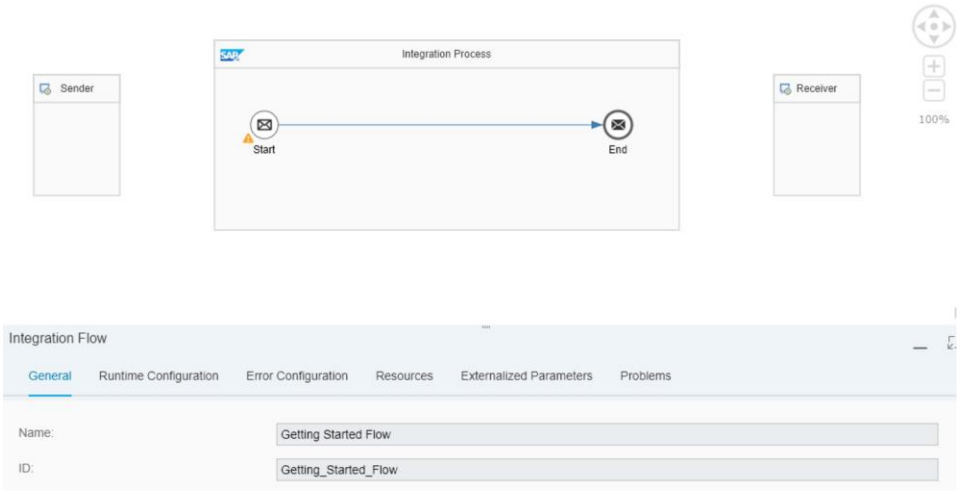
Explanation	Screenshot
Open the Web UI using the hyperlink provided to you.	
Go to the **Design** section of the Web UI.	
Choose **Create**.	

Explanation	Screenshot
Enter a name and description for your integration package and choose **Save**.	

STEP 2: CREATE AN INTEGRATION FLOW

Create the integration flow as part of your integration package.

Explanation	Screenshot
Select your integration package (in my case named CPI_exercises) and choose **Edit**.	
Go to the **Artifacts** tab and choose **Add -> Integration Flow.**	
Provide a name and description for the integration flow and choose **OK**.	

Explanation	Screenshot
Select the integration flow from the list of Artifacts of your package.	
An integration flow template opens that contains the following shapes: - Sender (represents your sender system) - Receiver (represents a receiver system) - Integration Process (contains all the processing steps that define how a message is processed on the tenant). The Integration Process shape contains a Start and an End event.	 If you select a shape in the integration flow modeling area, the properties of the selected shape are displayed in the section below the modeling area. If you click the area outside of the shapes, the properties are displayed that are related to the integration flow.

STEP 3: SMOKE TEST SCENARIO

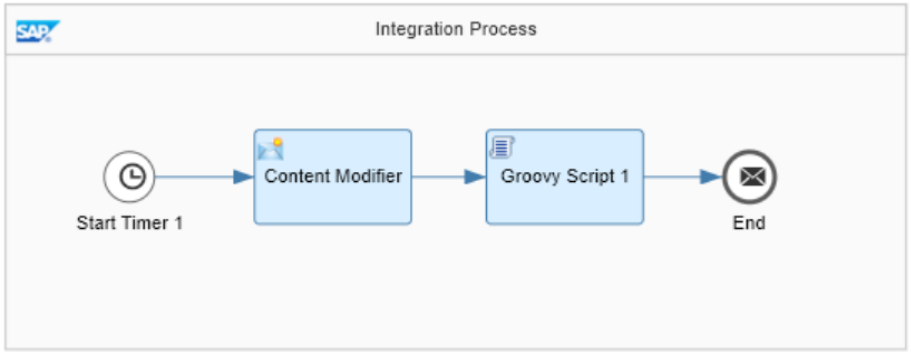
This is a very simple test to verify that your SAP Cloud Platform Integration is working as expected. You do not need any receiver system to perform this test.

In this scenario, you create a *Hello World* text and write it into the message body (scheduled on deployment of the integration flow). The result is written into the message processing log which you can directly inspect with the message monitoring application.

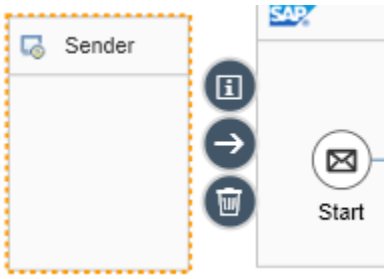
Note: This is not according to standard best practice. When designing productive scenarios, don't store the message payload in the message processing log. This can cause severe issues with memory consumption. The reason is that tasks such as message processing and message monitoring share the same memory and CPU which are available on your tenant.

For more detail son this scenario please check this page:
https://help.sap.com/viewer/368c481cd6954bdfa5d0435479fd4eaf/Cloud/en-US/8c83fcf4a72241af9f05e26b3f866aa5.html

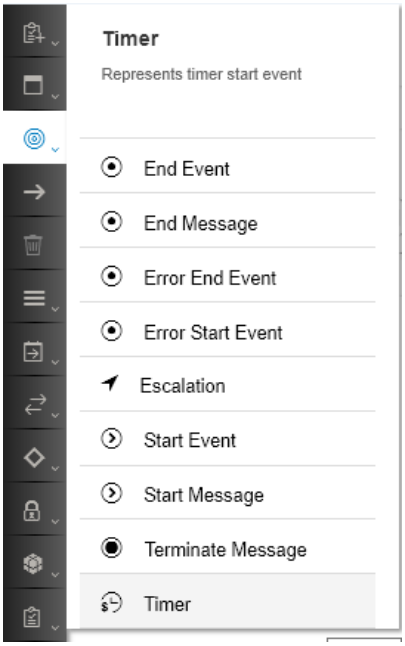
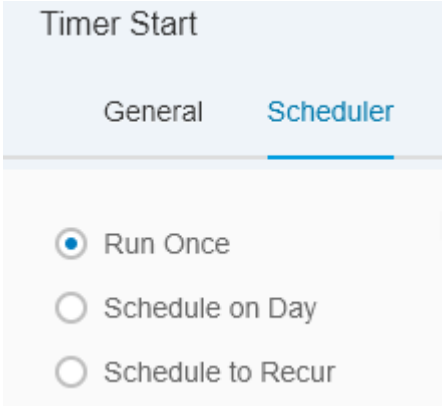
In this step we will develop the following scenario:



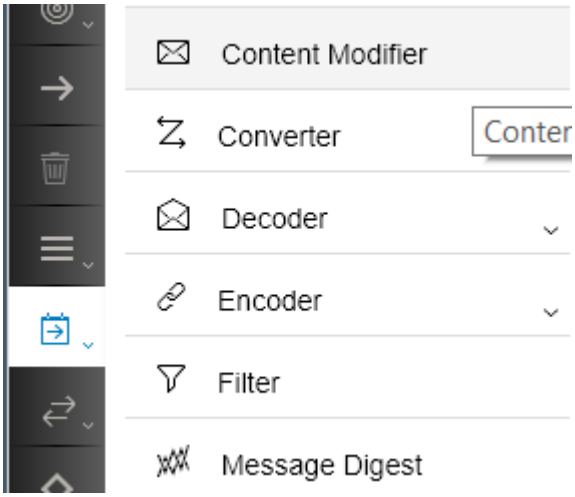
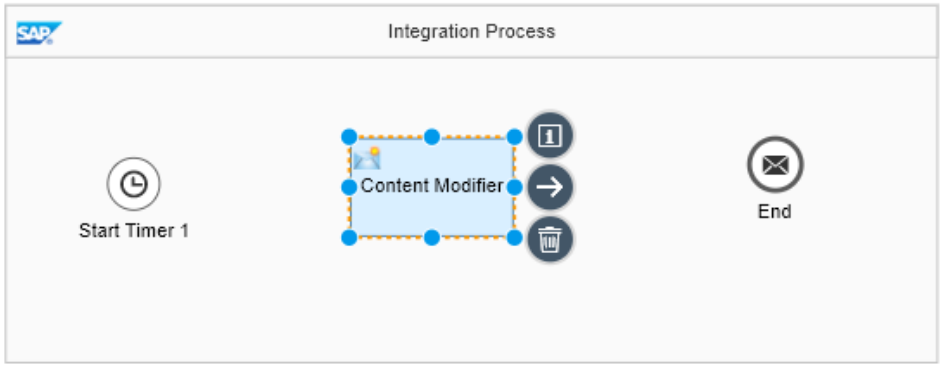
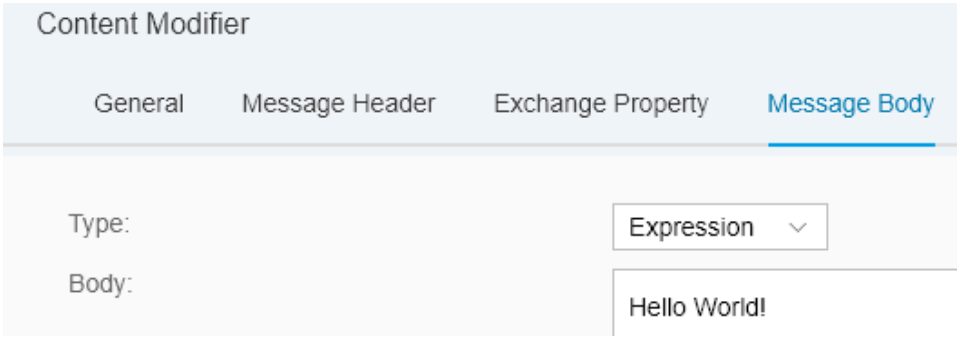
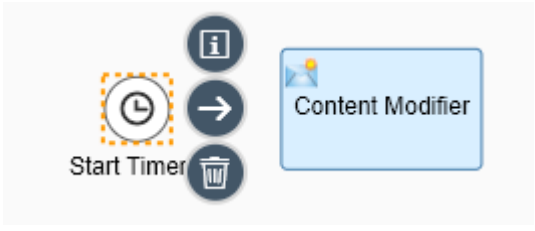
i. Remove the Sender and Receiver shapes

Explanation	Screenshot
Open the integration flow model (Edit mode), select the Sender shape, and choose the recycle bin icon (to **remove the Sender shape**). In the same way, **remove the Receiver shape**.	

ii. Add a Start Timer

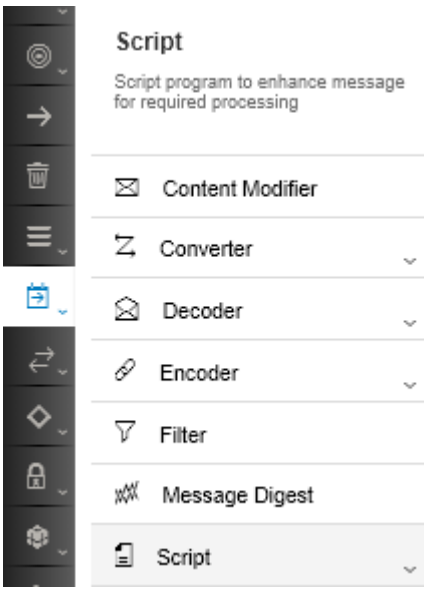
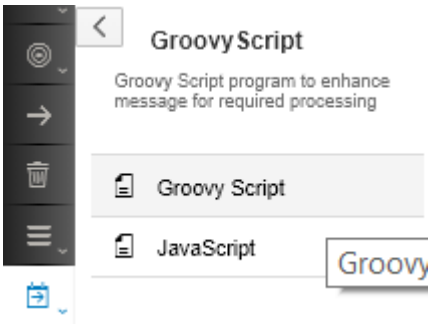
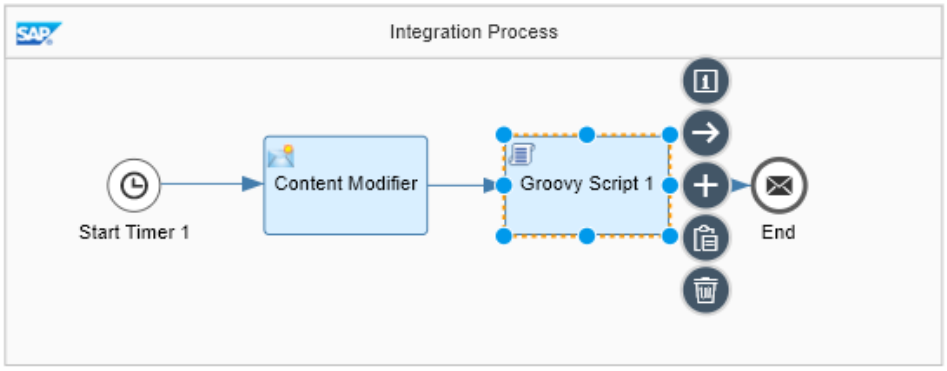
Explanation	Screenshot
Remove the Start message shape.	
In the palette, select the **Events** entry, and then select the **Timer** shape. Place the Timer shape in the Integration Process shape (at the point where the Start event was previously located).	
In the properties section of the Timer event (displayed below the integration flow model when the Timer event is selected in the model), go to the **Scheduler** tab. Make sure that the option **Run Once** is selected. It will be run only once every time we deploy the flow.	

iii. Create a Content Modifier to Define the Message Body

Explanation	Screenshot
To add a Content Modifier, go to the palette, choose the **Message Transformers** icon, and select the **Content Modifier** icon.	
Place the Content Modifier in the model after the Timer Start event.	
In the Content Modifier properties section, go to the **Message Body** tab and enter the following string sequence in the entry field: `Hello World!` This simulates the inbound XML message.	
Connect the Timer event with the Content Modifier. To do this, select the Timer event. Click the arrow icon and drag and drop	

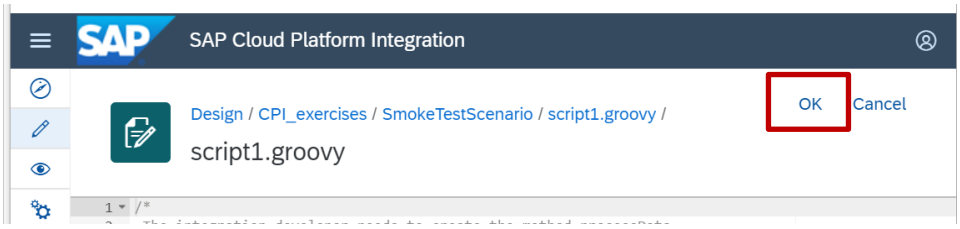
Explanation	Screenshot
the cursor to the Content Modifier.	

iv. Create a Script Step to Log the Payload

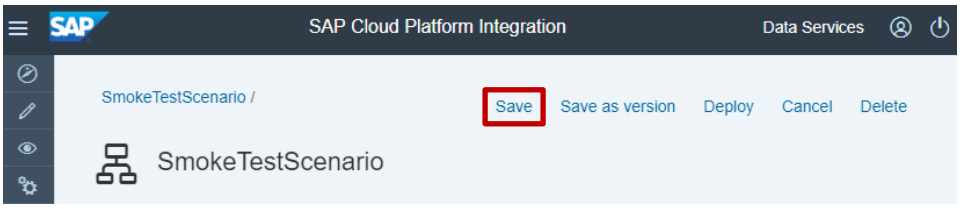
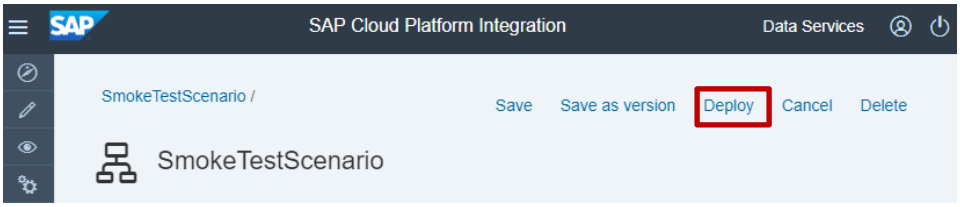
Explanation	Screenshot
To add a Script step (containing a Groovy script), go to the palette and choose the **Message Transformers** icon and select the **Script** icon.	
In the **Script** submenu, select **Groovy Script**. Place the Script step shape after the Content Modifier step and connect both shapes.	
Select the Script step. The context icons are displayed. Choose the **+** icon.	

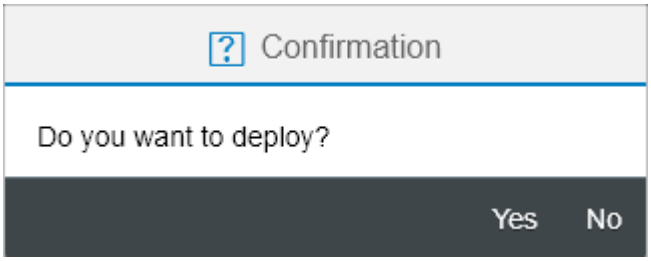
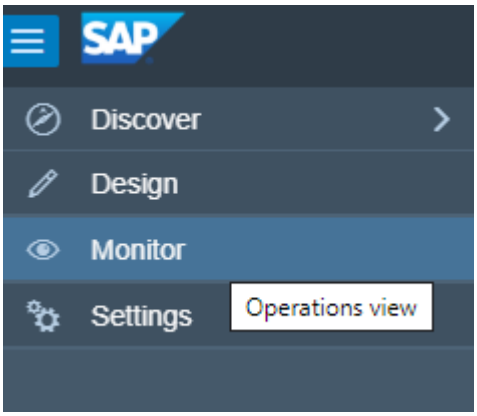
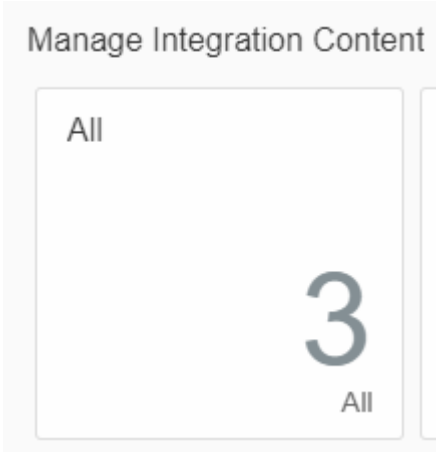
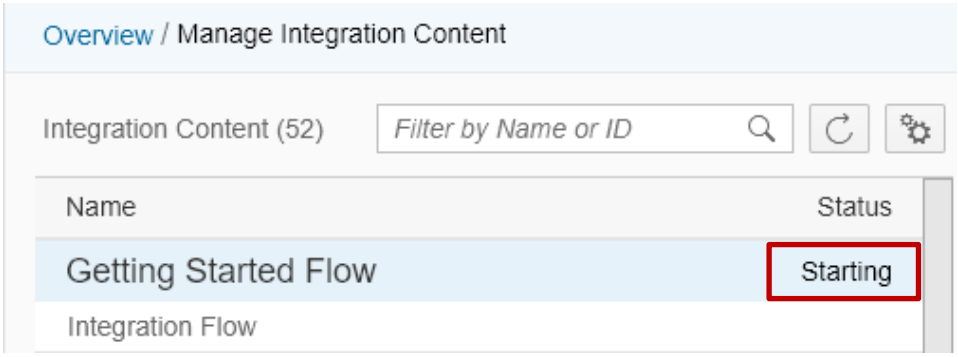
Explanation	Screenshot

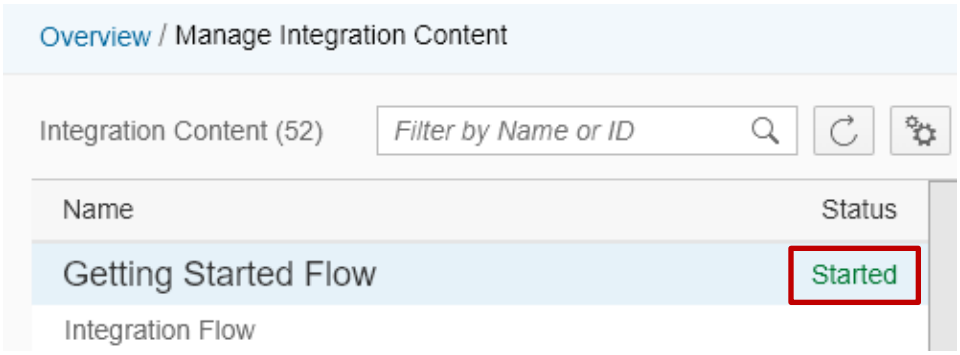
The default script coding of the step is displayed.
 	
Replace the default content by the script provided in the coding example below.
	`import com.sap.gateway.ip.core.customdev.util.Message;`
	`import java.util.HashMap;`
	
	`def Message processData(Message message)`
	`{`
	`  def body = message.getBody(java.lang.String) as String;`
	`  def messageLog = messageLogFactory.getMessageLog(message)`
	`;`
	`  if(messageLog != null)`
	`  {`
	`  messageLog.addAttachmentAsString("Log current Payload:"`
	`, body, "text/plain");`
	`  }`
	`  return message;`
	`}`

Choose **OK** to close the script editor and go back to the model.	

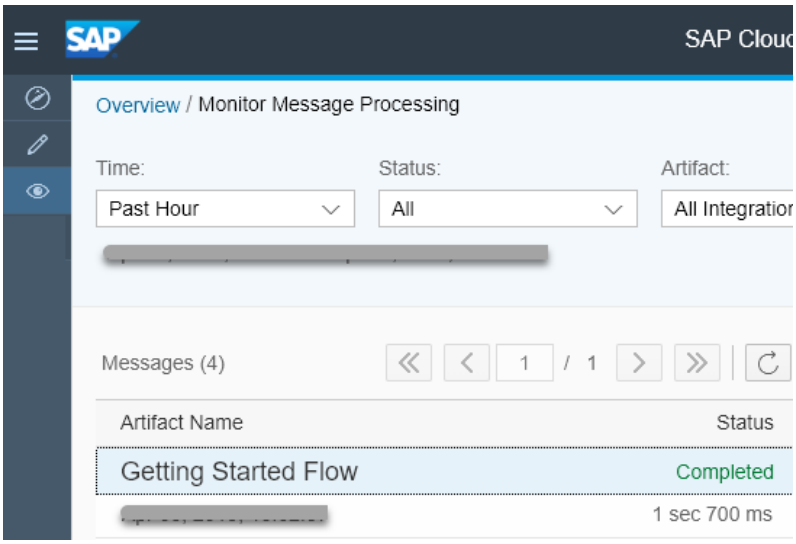
v. Deploy the integration flow

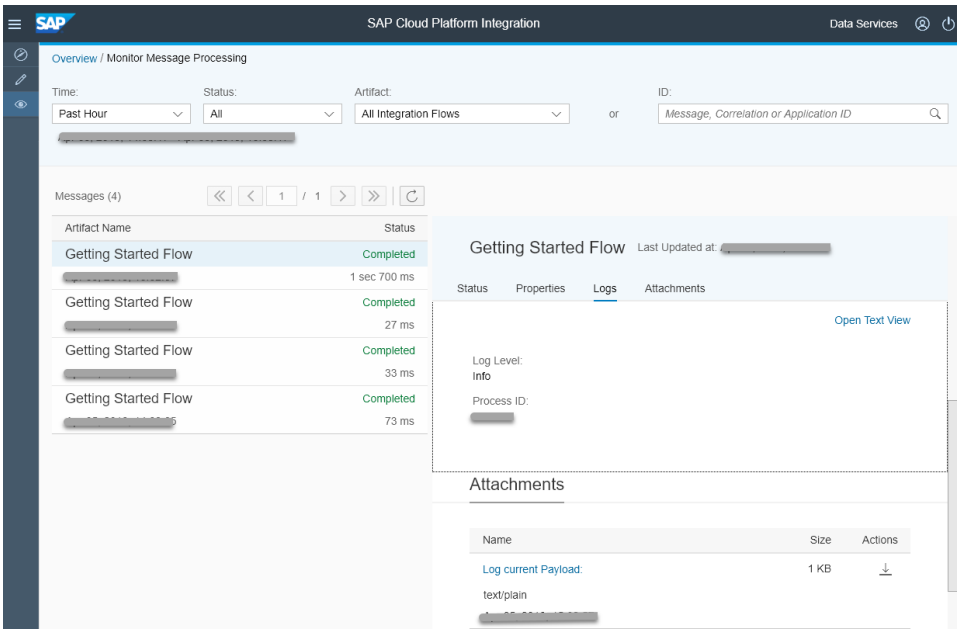
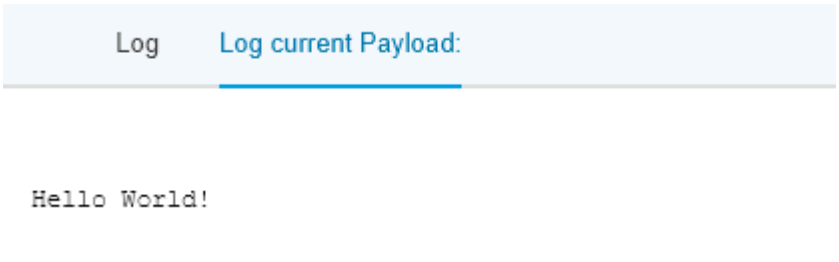
Explanation	Screenshot
When you have finished modeling, click **Save**. On successful save, a corresponding status message is displayed.	
Click **Deploy**. A message is displayed that asks you to confirm this action.	

Explanation	Screenshot
	
Chose the **Operations/Monitor view** to check the status of the deployment.	
Click the first tile in the **Manage Integration Content** section.	
You can check the deployment status of your integration flow. At the beginning the status of your flow will be **Starting** and afterwards move to **Started**.	

Explanation	Screenshot
	

vi. Monitor Message Processing

Explanation	Screenshot
Go to the Operations view and select a tile under **Monitor Message Processing**. If your integration flow has been processed successfully, the status **Completed** should be shown.	

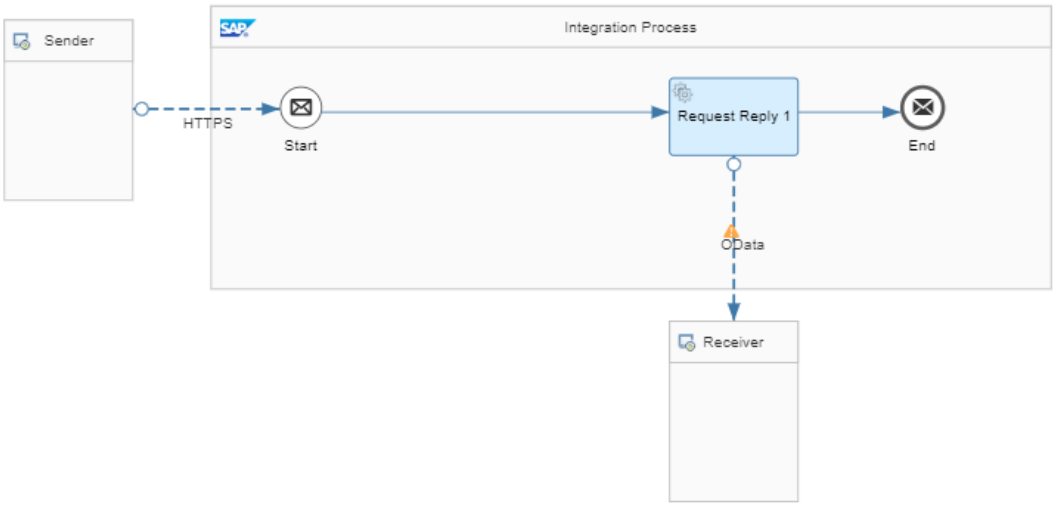
Explanation	Screenshot
Select the integration flow and analyze the details area to the right of the integration flow list.	
Under **Attachments**, click **Log current Payload**. You should see the message content, which consists of the following text: Hello World!	 This shows you that the message has been processed correctly.

STEP 4: HTTPS SENDER INITIATED SCENARIO, GET REQUEST

Creates a simple integration scenario that is initiated by a sender (using the HTTPS sender adapter) and retrieving SalesOrders details from SAP Business ByDesign or SAP Business One.

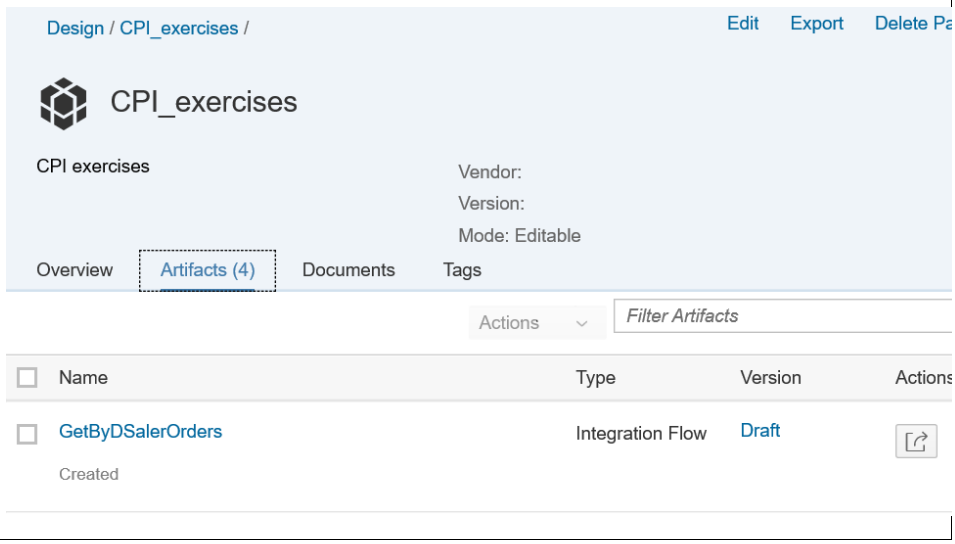
When you have finished the integration flow design, you can call the flow through an HTTP client.

The flow will look as follows at the end:



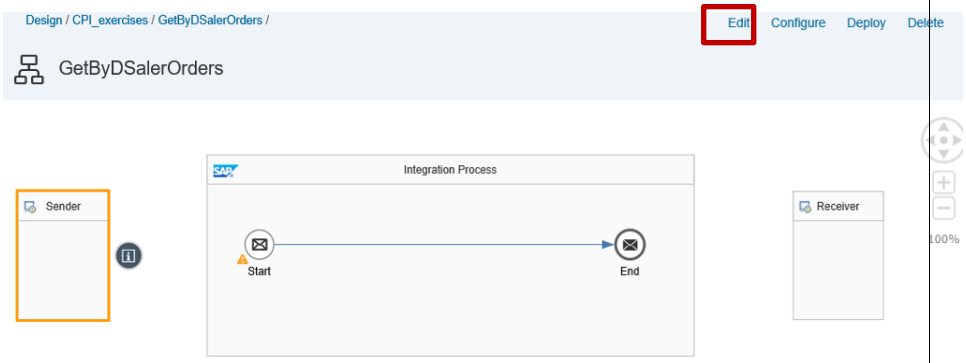
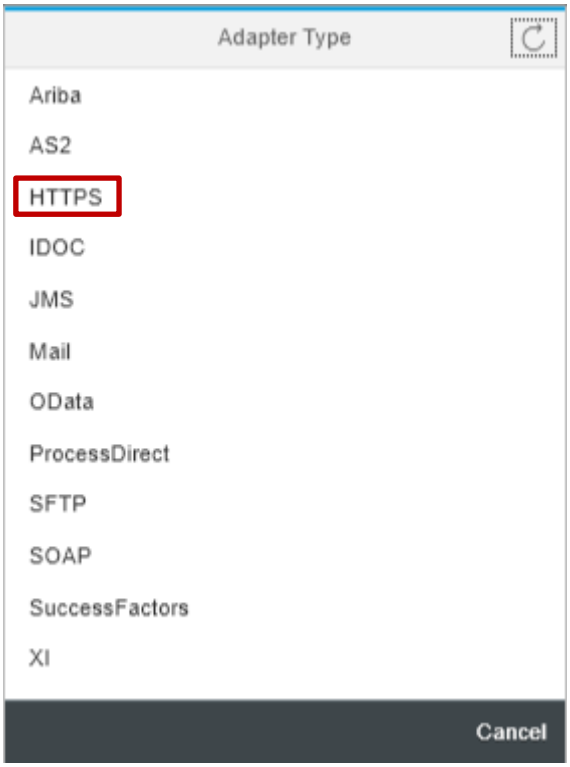
A similar exercise (not connecting to B1/ByD though) is detailed here: https://help.sap.com/viewer/368c481cd6954bdfa5d0435479fd4eaf/Cloud/en-US/ccdb189ad99a4db0908150c799cbe9e3.html

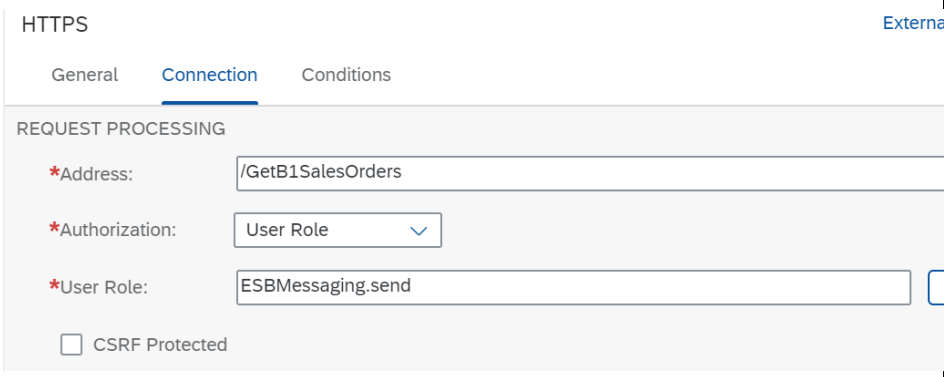
i. Create an Integration Flow

Explanation	Screenshot
Create a new Integration Flow by following STEP 2: CREATE AN INTEGRATION FLOW. Call the new Integration Flow something like: “GetByDSalesOrders” or “GetB1SalesOrders”.	

ii. Create the HTTPS Sender Channel

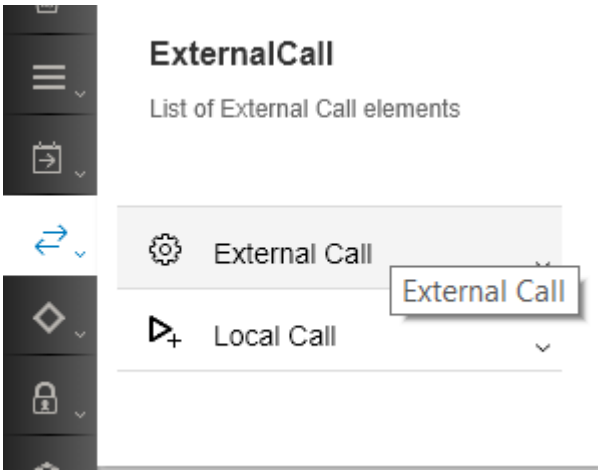
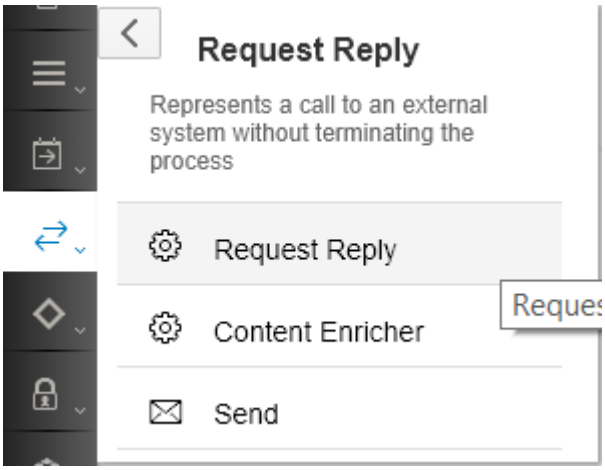
Add an HTTPS sender channel to enable the integration flow to receive HTTP requests.

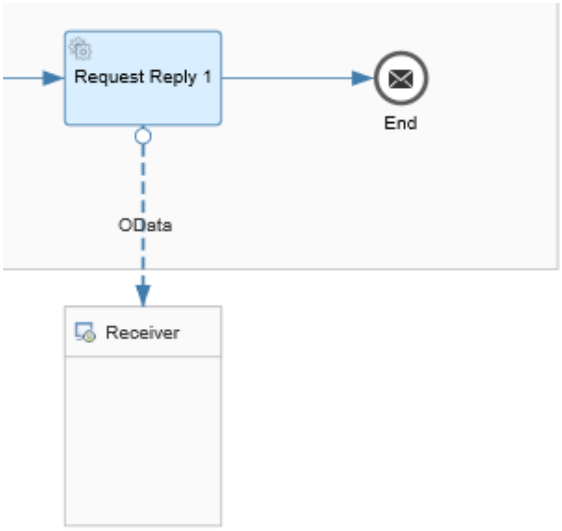
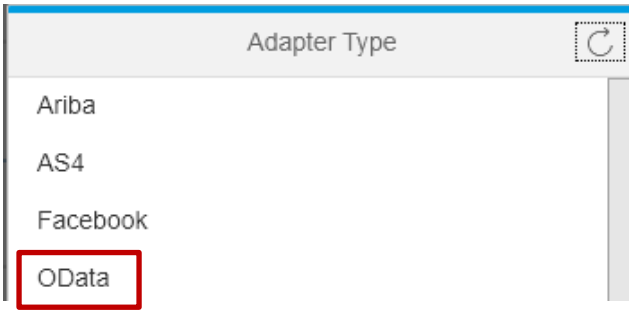
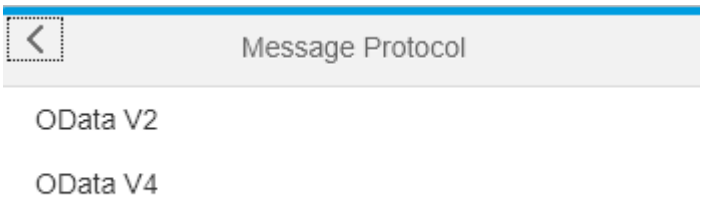
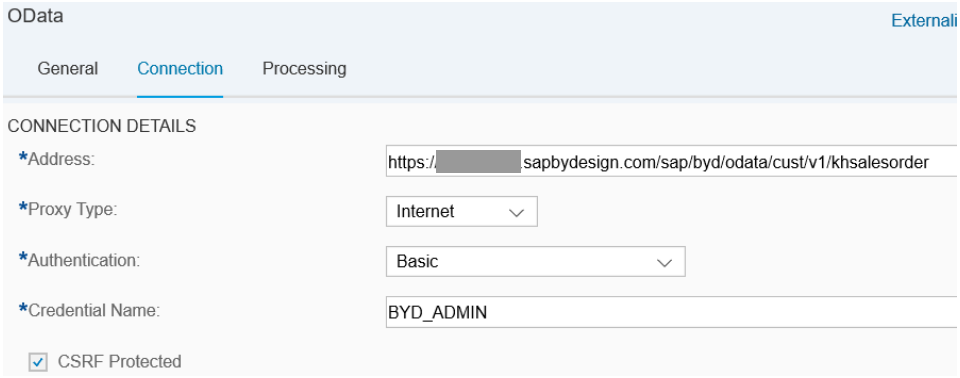
Explanation	Screenshot
Select the integration flow and choose **Edit**.	
Select the Sender shape. The context icons for the Sender appear.	
Click the arrow icon and drag and drop the cursor on the Start event. The list of available adapter types is displayed in a dialog. **Choose adapter type HTTPS**.	

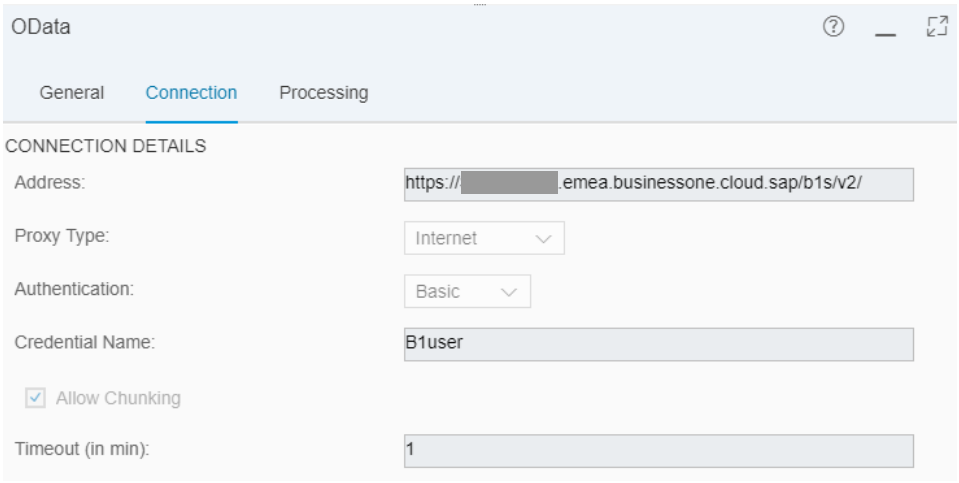
Explanation	Screenshot
Go to the **Connection** tab. Specify the required parameters: • Address **/GetByDSalesOrders** or **/GetB1SalesOrders** • Authorization • User Role • CSRF Protected	 **Address**: endpoint under which the integration flow can be called from the sender. **Authorization** and **User Role**: Selecting **User Role** does not mean that you are determining the usage of basic authentication. **User Role** authorization only means that the permissions of the sender of the message are checked based on roles (which are assigned to the user that is associated with the sender). For productive scenarios, we recommend using client certificate authentication with certificate-to-user mapping. However, to simplify the setup of we propose that you choose basic authentication - simply because it is much easier to configure the sender in this case. **CSRF Protected**: Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user (the user specified for the

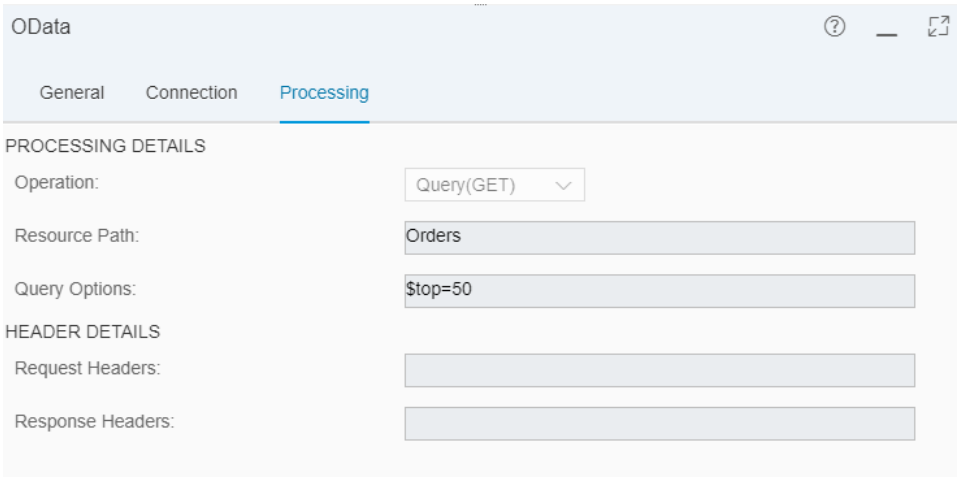
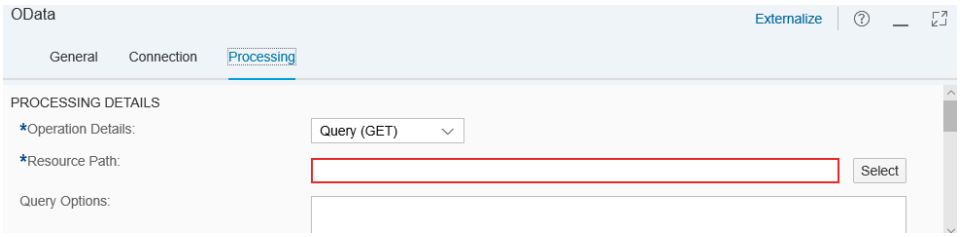
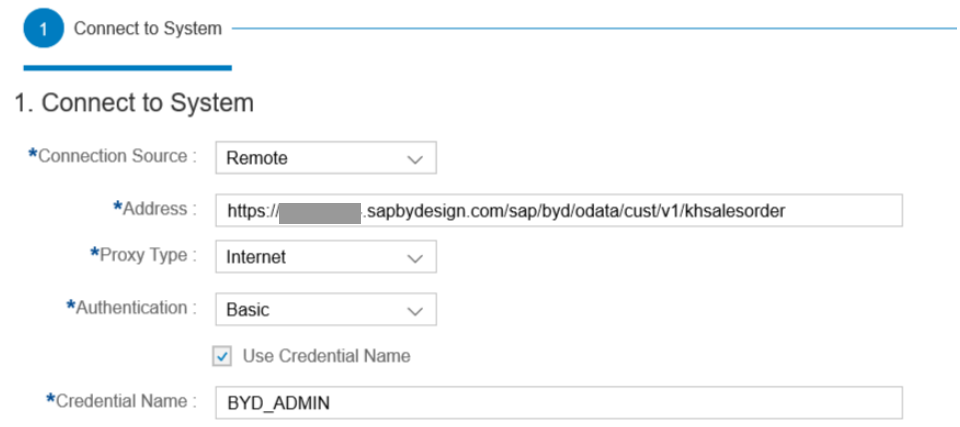
iii. Create the Outbound OData Channel

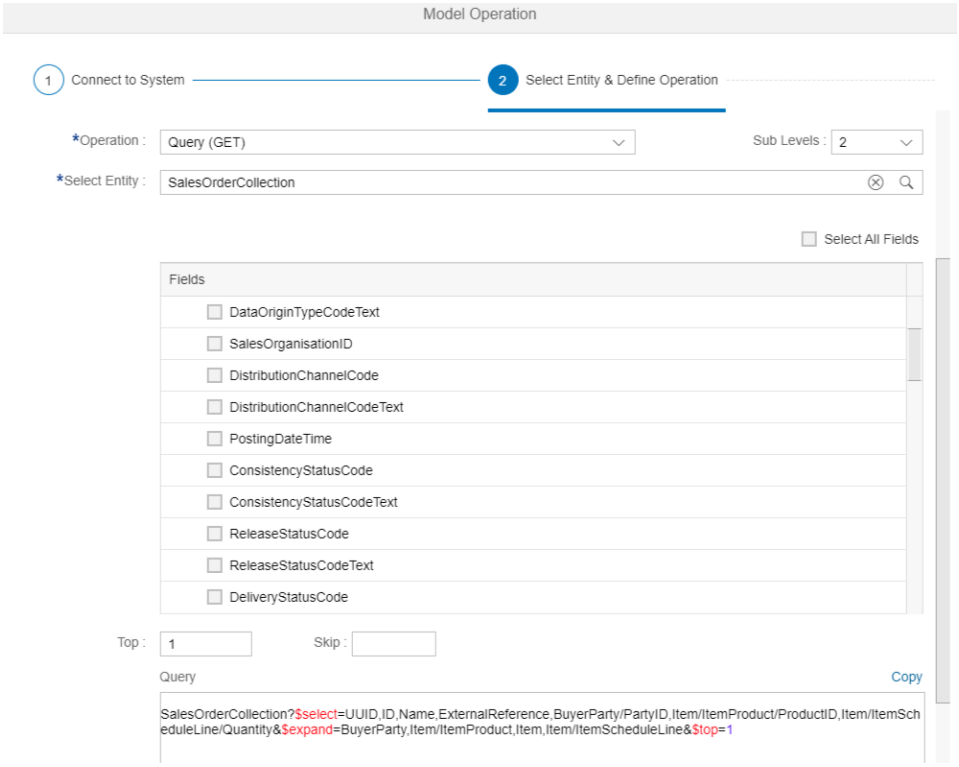
To call the B1/ByD external data source, add a Request Reply step to the integration flow model and connect this step with the external system using an OData channel.

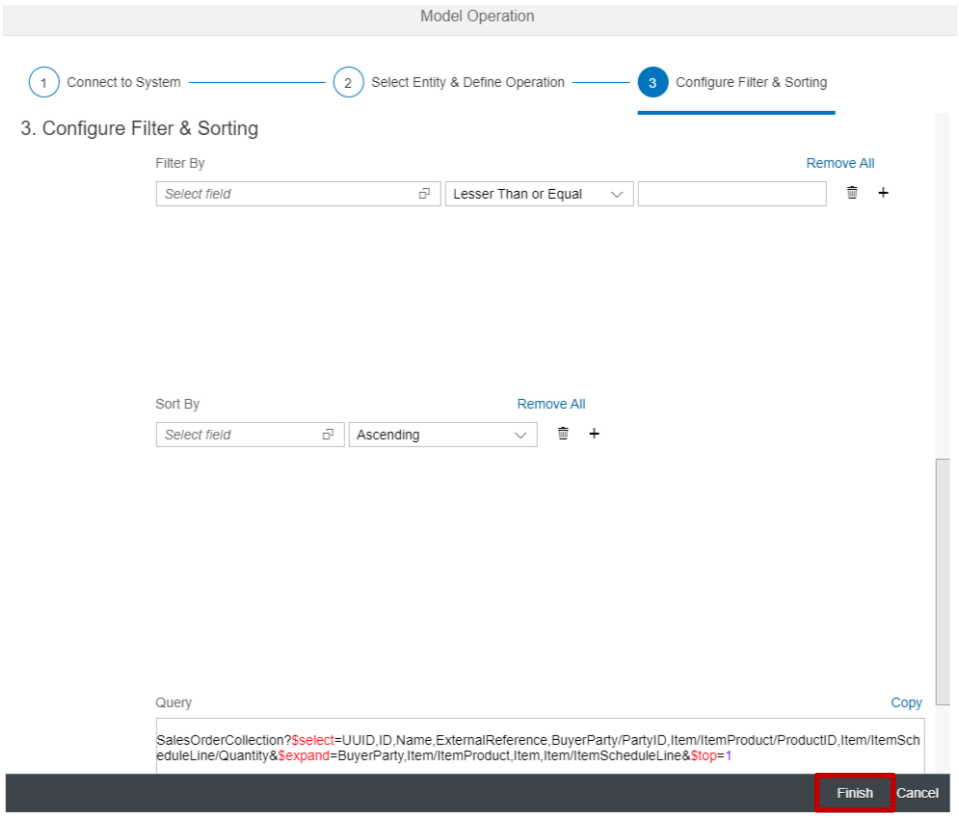
Explanation	Screenshot
Go to the palette and select the **Call -> External Call** option.	
In the submenu choose **Request Reply**.	

Explanation	Screenshot
Place the Request Reply before the End event in the model. Move the Receiver shape closer to the Request Reply shape. **Connect the Request Reply shape to the Receiver**.	
In the next dialog, choose adapter type **OData**.	
In the next dialo, as **Message Protocol** **For ByD:** select **OData V2**. **For B1:** select **OData V4**.	
For ByD: Go to the **Connection** tab of the OData adapter and enter your ByD OData **Address**: https://myByD.sapbydesign.com/sap/byd/odata/cust/v1/khsalesorder Select :	

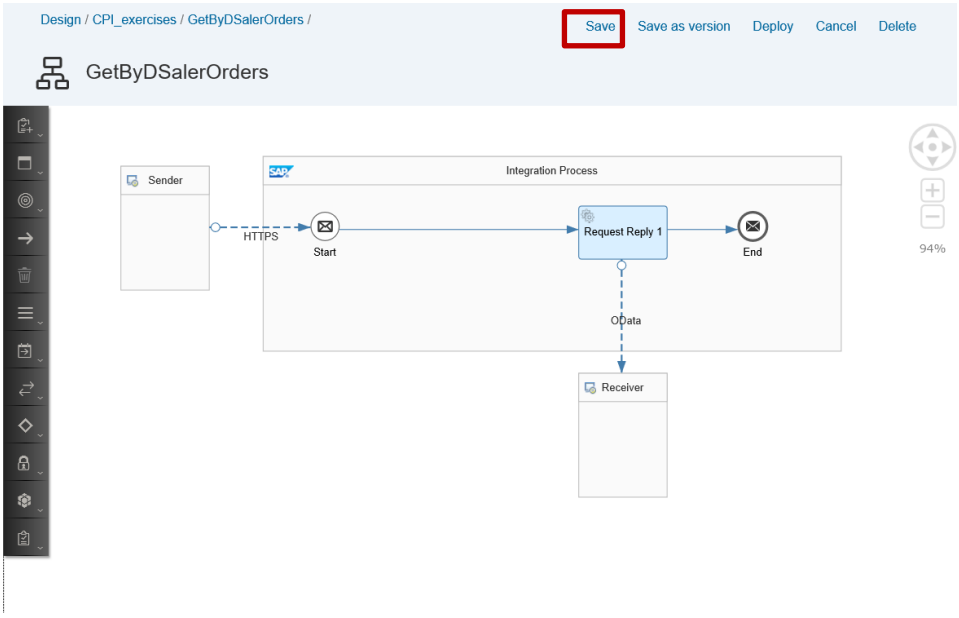
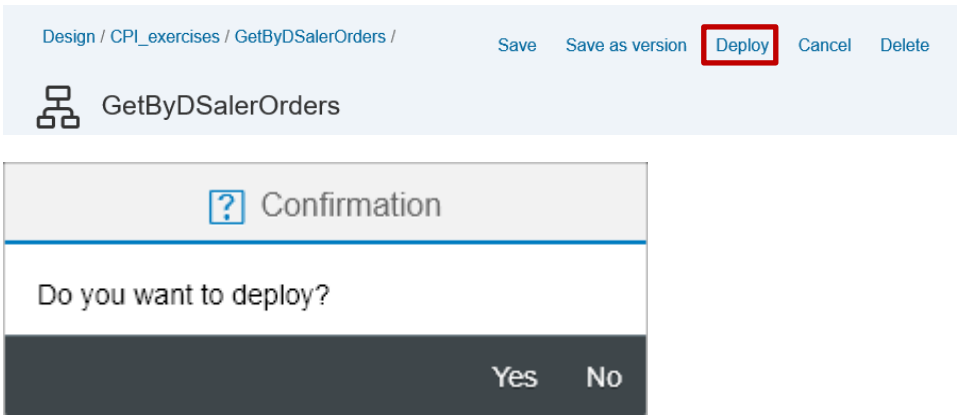
Explanation	Screenshot
- Internet as proxy type. - Basic authentication Enter the User Credentials name created in Store B1 and/or ByD User Credentials at SAP Cloud Platform Integration tenant prerequisite.	PS: If you have no access to a ByD system you can test with the following address not requiring authentication: https://espmrefapps.hana.ondemand.com/espm-cloud-web/espm.svc
For B1: Go to the **Connection** tab of the OData adapter and enter your B1 Service Layer **Address**: https://MyB1.emea.businessone.cloud.sap/b1s/v2/ Select : - **Internet** as proxy type. - **Basic authentication** Enter the **User Credentials name created** in Store B1 and/or ByD User Credentials at SAP Cloud Platform Integration tenant prerequisite.	 PS: If you have no access to a B1 system you can test with the following address not requiring authentication: https://espmrefapps.hana.ondemand.com/espm-cloud-web/espm.svc

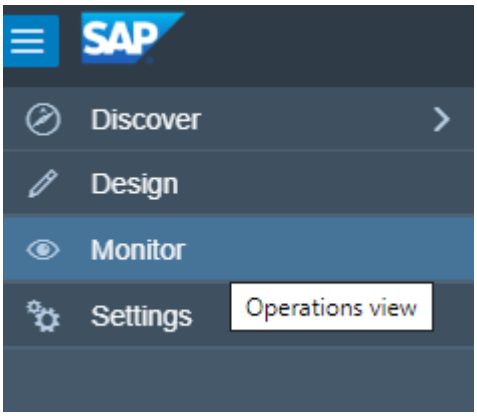
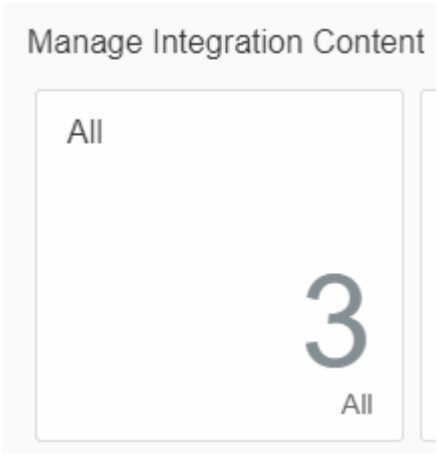
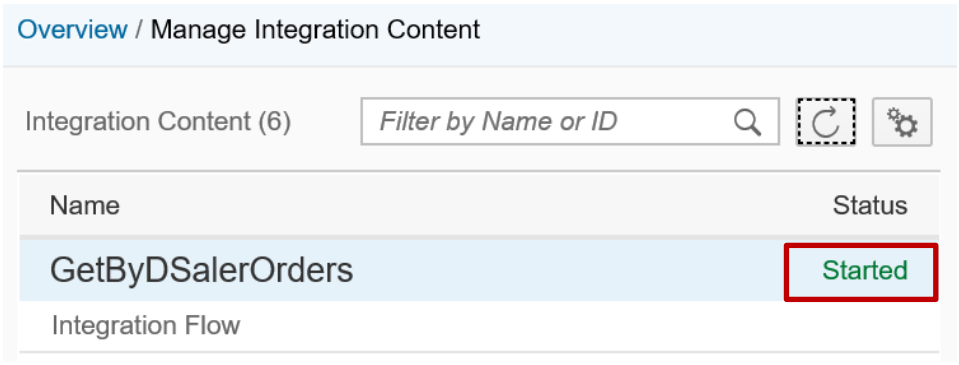
Explanation	Screenshot
For B1: Go to the **Processing** tab. Enter **Orders** as Resources Path. Enter **$top=50** as Query Options. **The $top option is highly recommended.** If not entered and your system contains many Orders CPI will try to retrieve them all (with SL pagination of 20 Orders per request) and you might get a timeout or block the flow due to the huge amount of data to be retrieved.	
For ByD: Go to the **Processing** tab. Next to **Resource Path**, choose **Select**.	
For ByD: The Query Editor opens. The **Address** field is already populated. Make sure that **Remote** is selected as the Connection Source and Authentication is set to **Basic**. Press **Step 2**.	

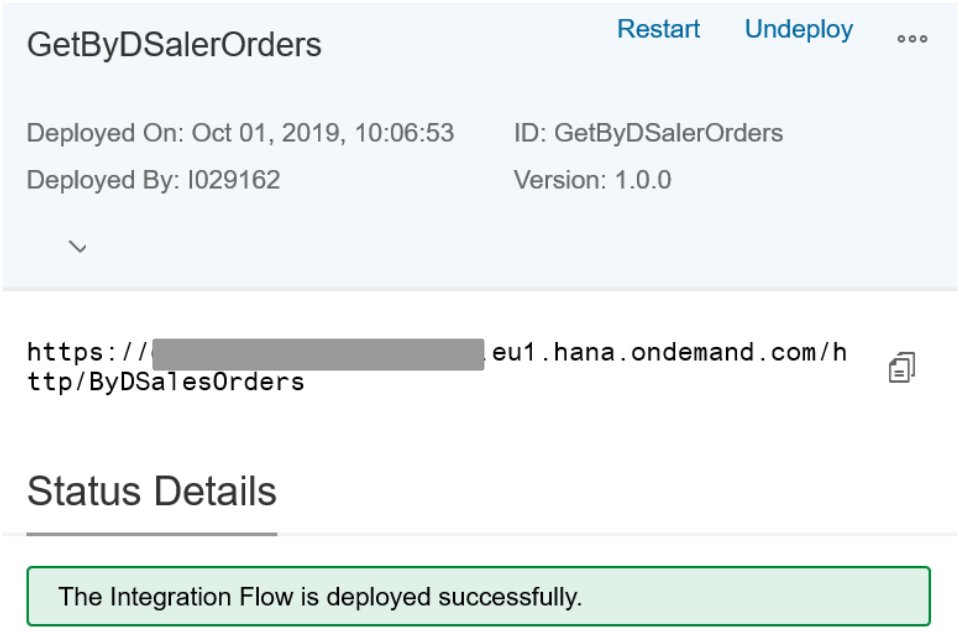
Explanation	Screenshot
For ByD: The system connects to the **hksalesorder** ByD oData service and retrieves the metadata from its OData API. Choose the Search icon in the Select Entity field and choose **SalesOrderCollection**. Change the number of **Sub Levels** to 2, you can then select sub collection properties like Item, BuyerParty,… Select the **Fields** you want to retrieve. You can set a Top value to reduce the size of the response. Press **Step 3** button.	

Explanation	Screenshot
For ByD: Press **Finish** on the last step.	

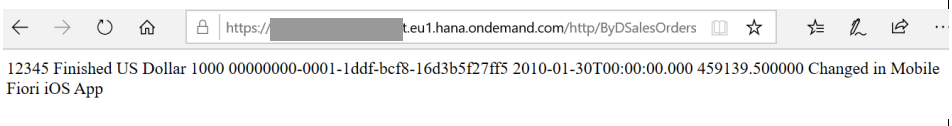
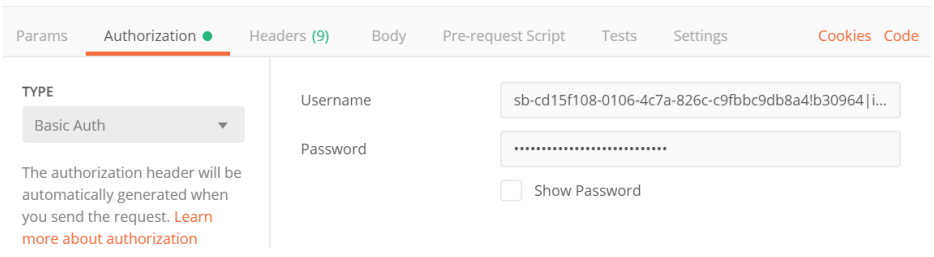
iv. Deploy the integration flow

Explanation	Screenshot
Click **Save**. On successful save, a corresponding status message is displayed.	
Click **Deploy**. A message is displayed that asks you to confirm this action.	

Explanation	Screenshot
Chose the Operations/Monitor view to check the status of the deployment.	
Click the first tile in the **Manage Integration Content** section.	
You can check the deployment status of your integration flow. At the beginning the status of your flow will be **Starting** and afterwards move to **Started**.	

Explanation	Screenshot
Copy the endpoint URL to the clipboard. The URL should end with `/http/<Address specified in the HTTPS adapter>.`	

v. Test your integration flow

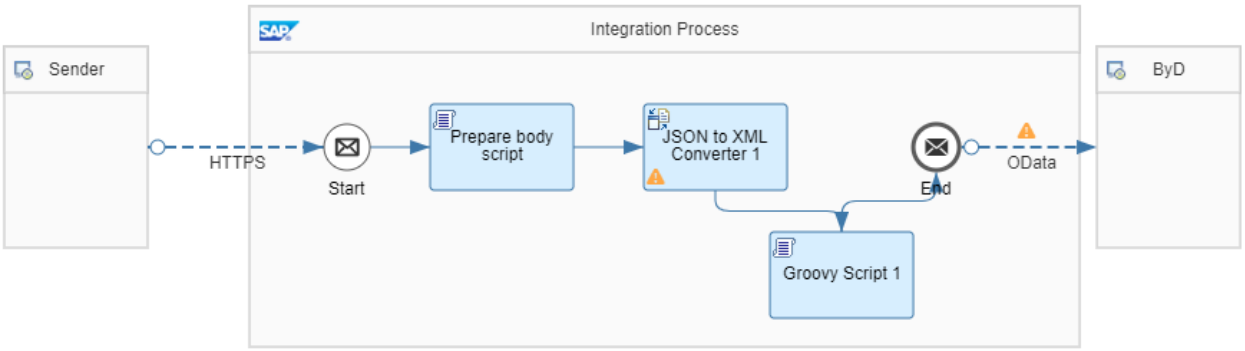
Explanation	Screenshot
Using an HTTP client, send a GET request to the endpoint address. You will get details of your Sales Orders in ByD.	
Enter your clientid and clientsecret on your http client.	
If you don't know your clientid and clientsecret please check that you have previously generated	Authorize the HTTP Client to Call the Integration Flow Endpoint in the Cloud Foundry Environment:

Explanation	Screenshot
a **Process Integration Runtime** instance and its corresponding **Service Key**.	https://help.sap.com/viewer/368c481cd6954bdfa5d0435479fd4eaf/Cloud/en-US/7ac1d3ab712a49f793e0a2af168ac22d.html
Note1: If you CPI instance is running on a Neo environment the user and password will be simply your CPI account user and password.	Send the HTTP Request and Process the Integration Flow: https://help.sap.com/viewer/368c481cd6954bdfa5d0435479fd4eaf/Cloud/en-US/f08cca6af4fd48b687d3f86c329efaed.html
Note2: If you have set the CRSF Protected flag for your HTTPS connection, please follow the instructions here to configure your http sender.	Send the HTTP Request and Process the Integration Flow: https://help.sap.com/viewer/368c481cd6954bdfa5d0435479fd4eaf/Cloud/en-US/f08cca6af4fd48b687d3f86c329efaed.html

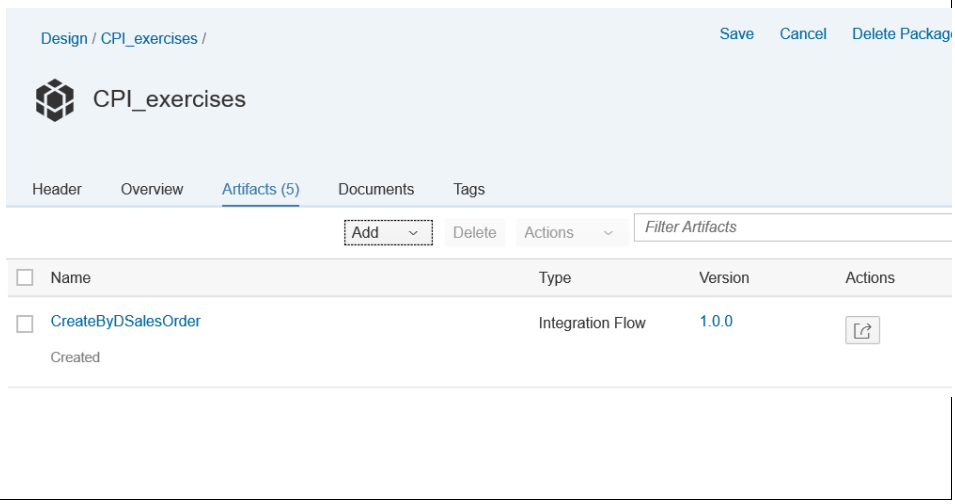
STEP 5: HTTPS SENDER INITIATED SCENARIO, POST REQUEST

Implementation of an integration scenario initiated by an HTTPS sender (like the previous scenario) sending a SalesOrder POST request sent to SAP Business ByDesign or SAP Business One.

The final flow will look like this:

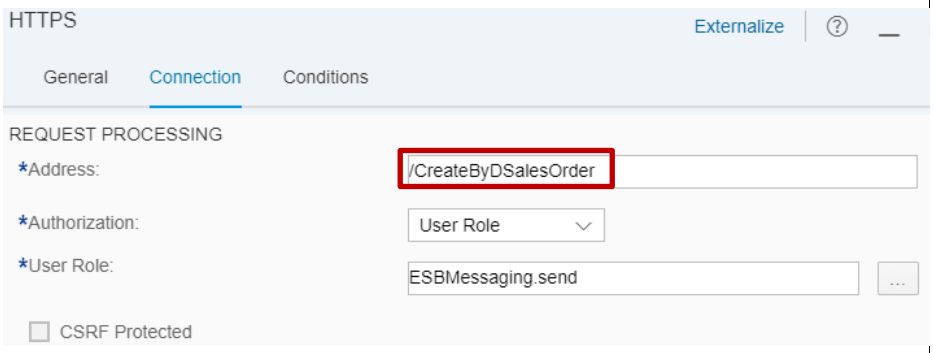


i. Create the Integration Flow

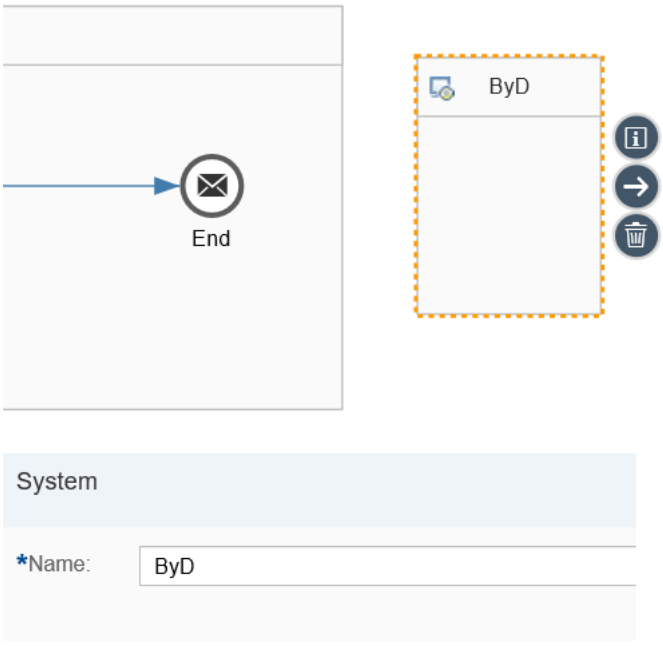
Explanation	Screenshot
Create a new Integration Flow by following STEP 2: CREATE AN INTEGRATION FLOW. Call the new Integration Flow something like: **CreateByDSalesOrder** or **CreateB1SalesOrder**.	

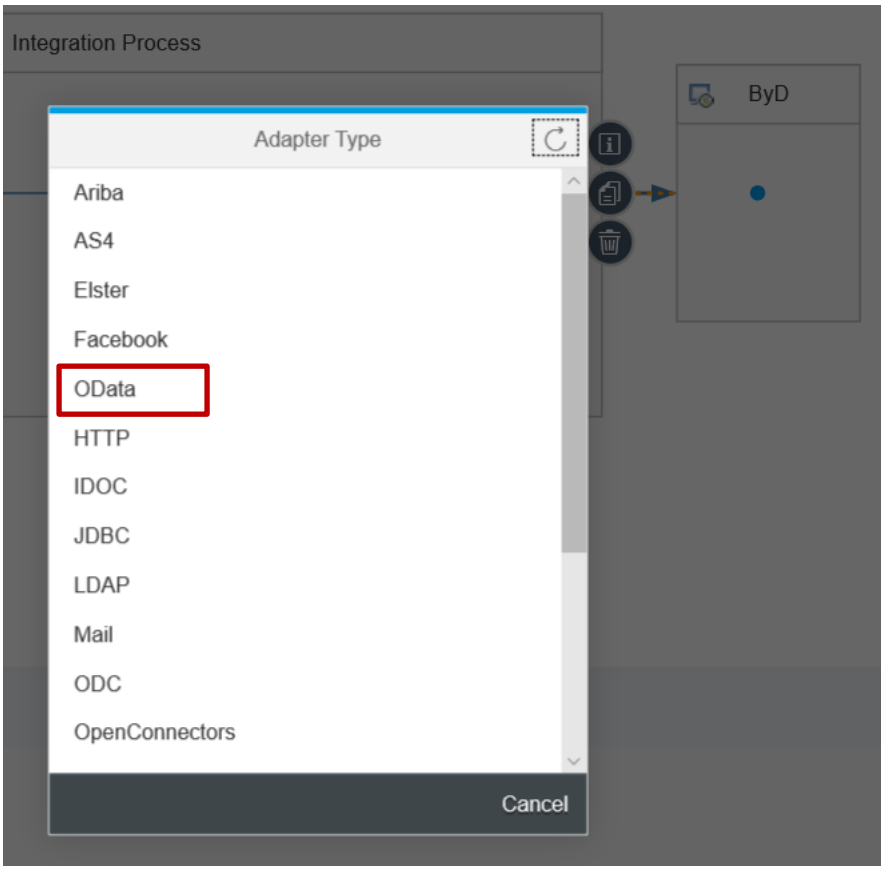
ii. Create the HTTPS Sender Channel

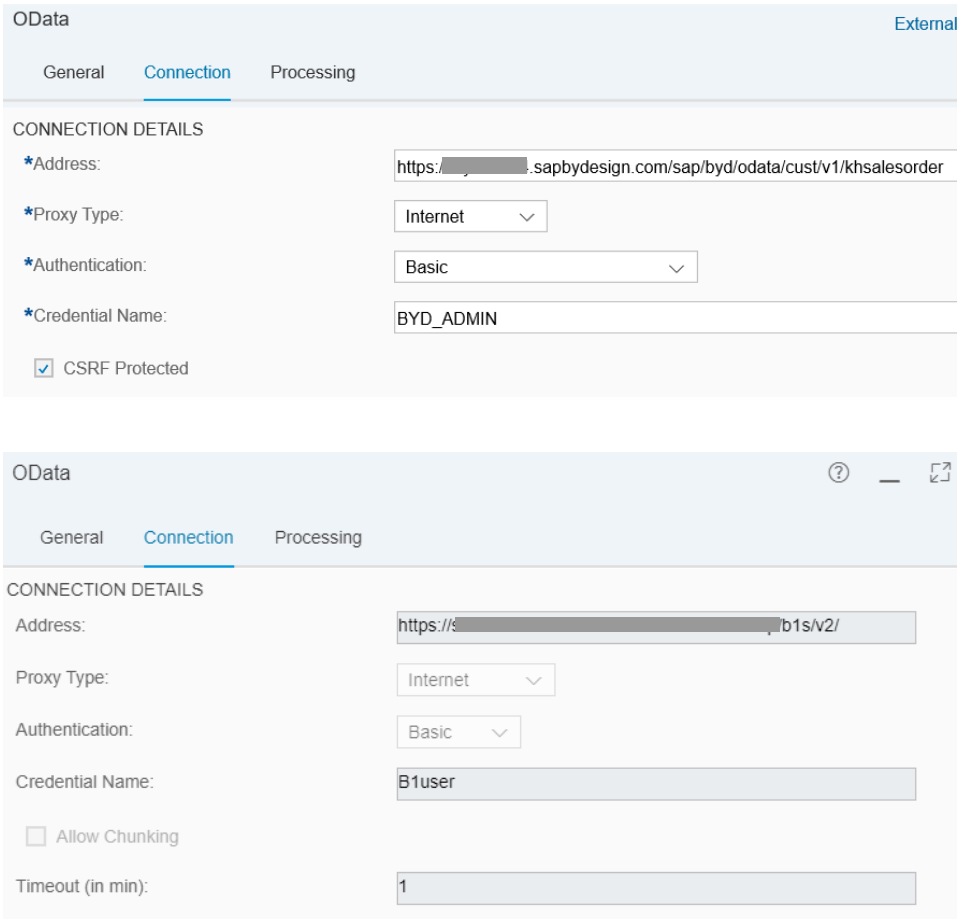
Add an HTTPS sender channel to enable the integration flow to receive HTTP requests.

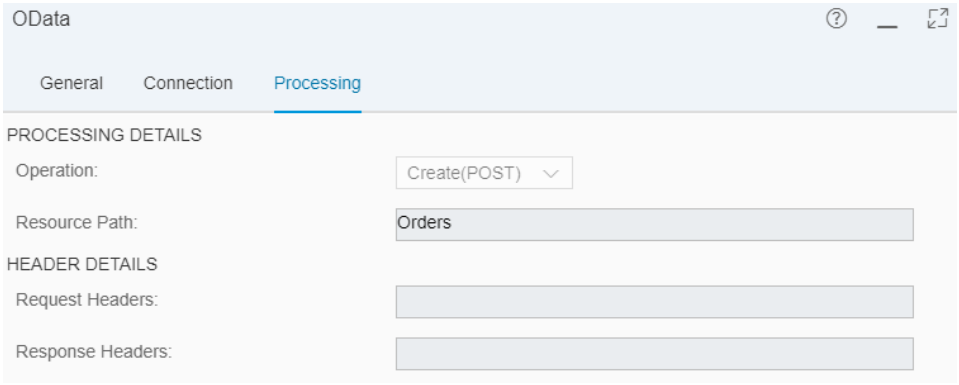
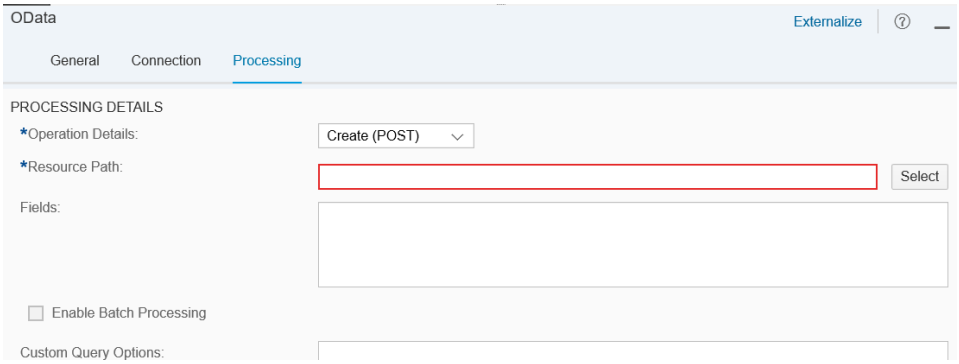
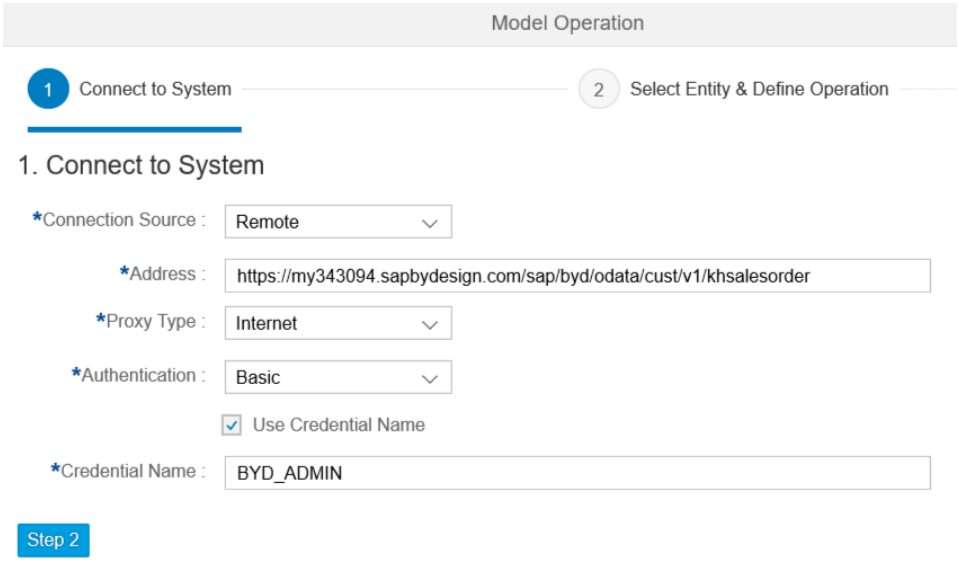
Explanation	Screenshot
Follow the steps at Create the HTTPS Sender Channel. Enter **/CreateByDSalesOrder** or **/CreateB1SalesOrder** as address. Uncheck the flag CSRF Protected.	

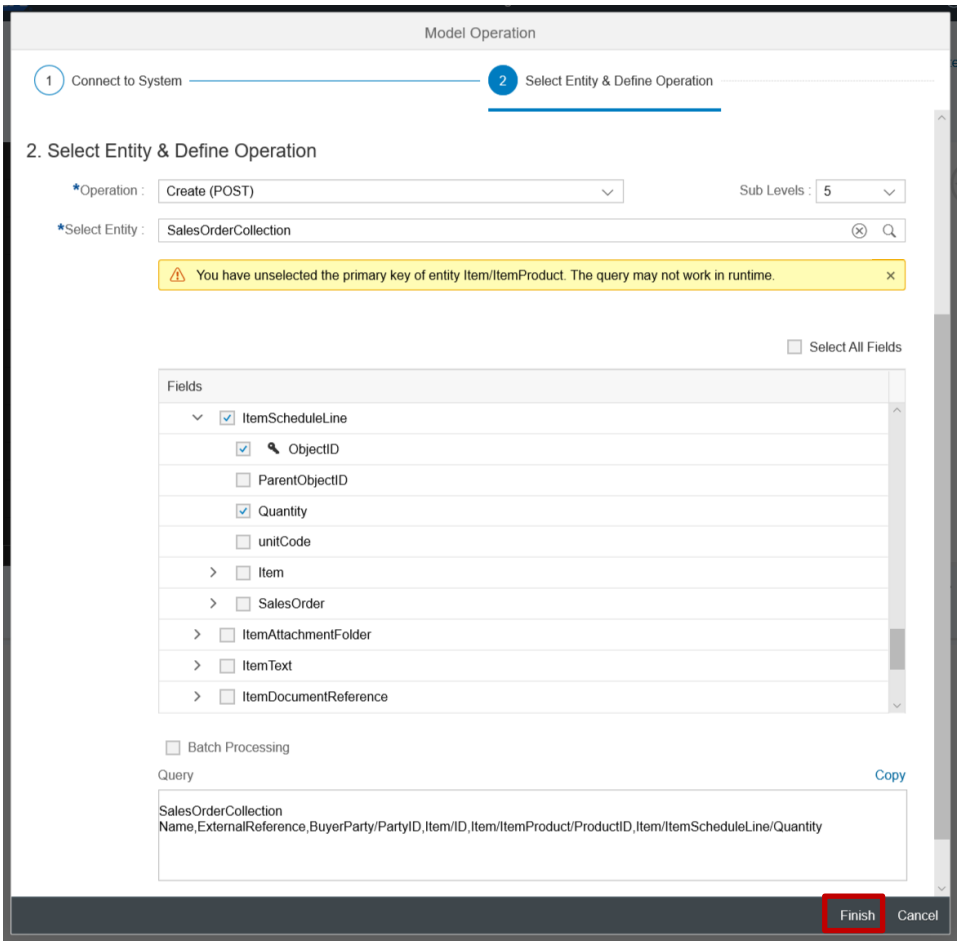
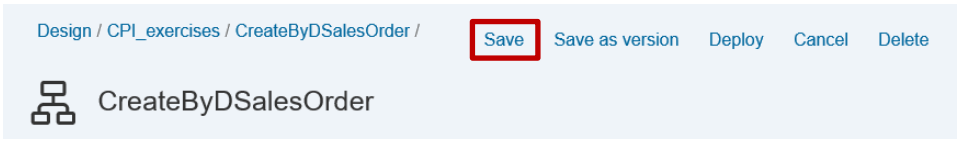
iii. Configure the B1/ByD Receiver

Explanation	Screenshot
Select the Receiver system and change its name to **ByD** or **B1**.	

Explanation	Screenshot
Connect the End event shape to the ByD system. In the next dialog, choose adapter type **OData**.	
For ByD: Select **OData V2** as Message Protocol.	

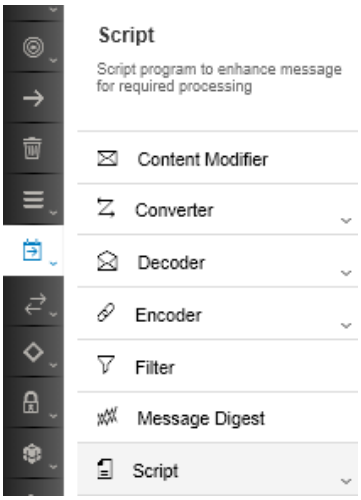
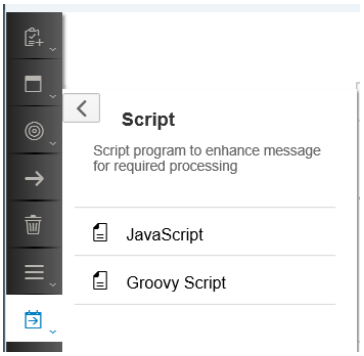
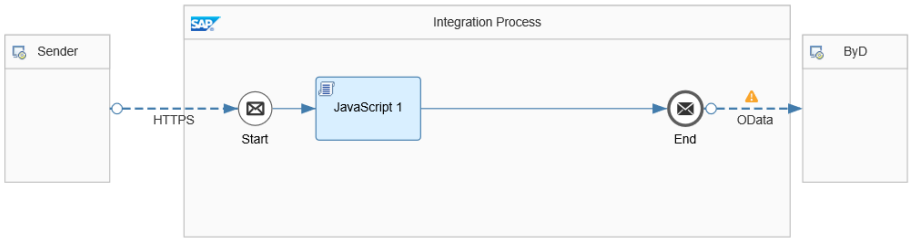
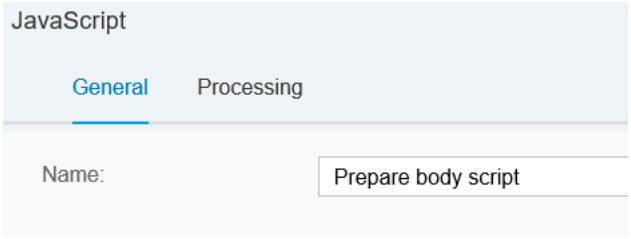
Explanation	Screenshot
For B1: Select **OData V4** as Message Protocol.	
Go to the **Connection** tab of the OData adapter and enter the following as the **Address**: **For ByD:** https://MY_BYD_TENANT/sap/byd/odata/cust/v1/khsalesorder **For B1:** https://BY_B1_BACKEND/b1s/v2/ Select **Internet** as proxy type and **Basic Authentication.** Enter the User Credentials name created in Store B1 and/or ByD User Credentials at SAP Cloud Platform Integration tenant prerequisite.	

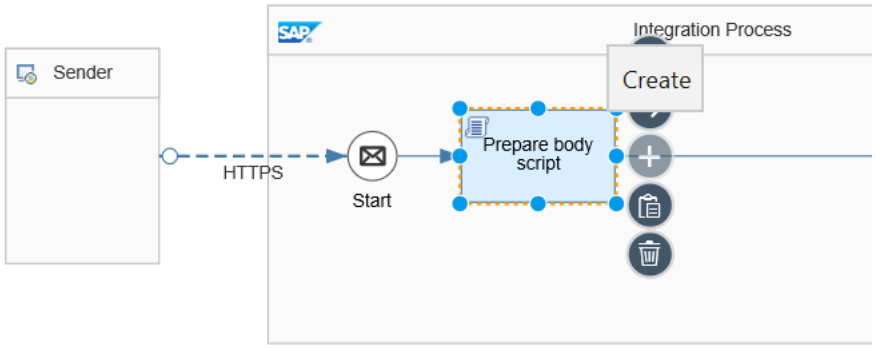
Explanation	Screenshot
For B1: Go to the **Processing** tab. Change the Operation Details to **Create (POST).** Enter **Orders** as Resource Path.	
For ByD: Go to the **Processing** tab. Change the Operation Details to **Create (POST).** Make sure Content Type is set to **Atom**. Next to **Resource Path**, choose **Select**.	
For ByD: The Query Editor opens. The **Address** field is already populated. Make sure that **Remote** is selected as the Connection Source and Authentication is set to **Basic**. Press **Step 2**.	

Explanation	Screenshot
For ByD: The system connects to the **hksalesorder** ByD oData service and retrieves the metadata from its OData API. Choose the Search icon in the Select Entity field and choose **SalesOrderCollection**. Change the number of **Sub Levels** to 5. Select the following **Fields**: - Name - ExternalReference - BuyerParty/PartyID - Item/ID - Item/ItemProduct /ProductID - Item /ItemScheduleLine /Quantity Press **Finish**.	
Press **Save**.	

iv. Create the Script Step

Add a Script Step that will read the Sender request body and prepare the ByD Sales Order body.

Explanation	Screenshot
Go to the palette, choose the **Message Transformers** icon and select the **Script** icon.	
In the **Script** submenu, select **JavaScript**.	
Place the Script Step shape between the Start and End event.	
In the Script properties, go to the General tab and change the Name to **Prepare body script**.	

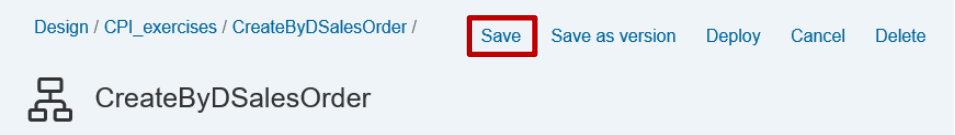
Explanation	Screenshot
Select the Script shape and press the  icon to create a new script file.	

For ByD:
The JavaScript file opens with some default code.
Replace the code to with the proposed here.
Press **OK** to close the code editor.
	`importClass(com.sap.gateway.ip.core.customdev.util.Message);`
	`importClass(java.util.HashMap);`
	`function processData(message) {`
	`  var body = String(message.getBody(new java.lang.String().getClass()));`
	`  //create json object from string object`
	`  body = JSON.parse(body);`
	
	`  // get data from the HTTPS request body`
	`  var name = body.Name;`
	`  var buyerPartyID = body.BuyerPartyID;`
	`  var reference = body.Reference;`
	`  var productID1 = body.ProductID1;`
	`  var quantity1 = body.Quantity1;`
	`  var productID2 = body.ProductID2;`
	`  var quantity2 = body.Quantity2;`
	
	`  // create the ByD SalesOrder request body`
	`  var soBody = {`
	`    SalesOrder: {`
	`      ExternalReference: "FromCPI" + reference,`
	`      Name: name,`
	`      DataOriginTypeCode: "1",`
	`      BuyerParty: { BuyerParty: {PartyID: buyerPartyID }},`
	`      Item: [{`
	`        Item: {`
	`          ID: "10",`
	`          ItemProduct: {`
	`            ItemProduct: {ProductID: productID1}`
	`          },`
	`          ItemScheduleLine: [{`
	`            ItemScheduleLine: {Quantity: quantity1}`
	`          }]`
	`        }`
	`      },`
	`      {`
	`        Item: {`
	`          ID: "20",`
	`          ItemProduct: {`
	`            ItemProduct: {ProductID: productID2}`
	`          },`
	`          ItemScheduleLine: [{`
	`            ItemScheduleLine: {Quantity: quantity2}`
	`          }]`
	`        }`
	`      }]`

Explanation	Screenshot

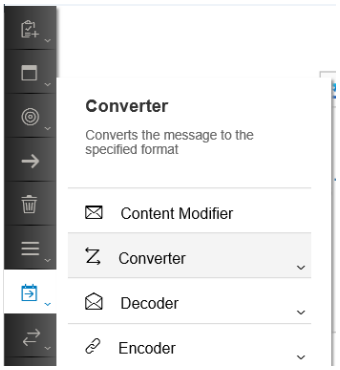
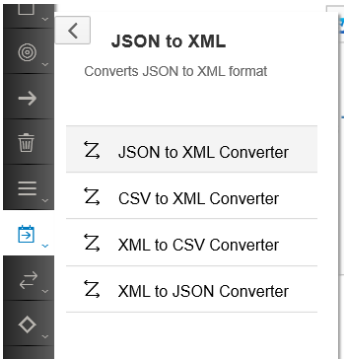
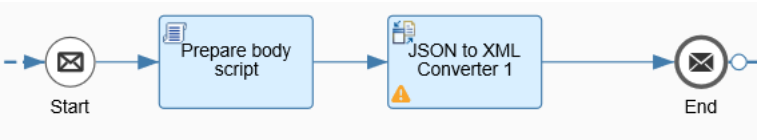
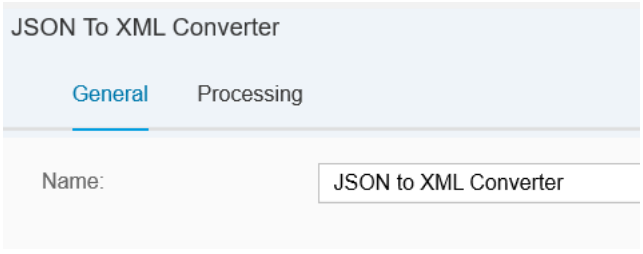
	`  }`
	`};`
	
	`  message.setBody(JSON.stringify(soBody));`
	
	`  return message;`
	`}`

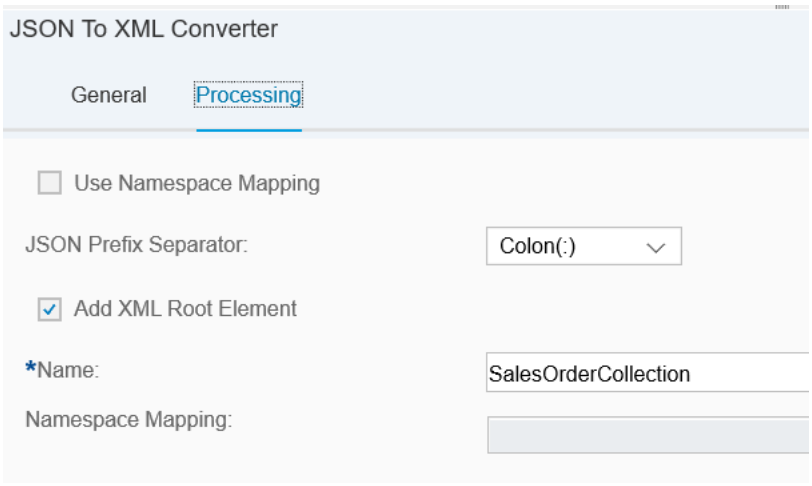
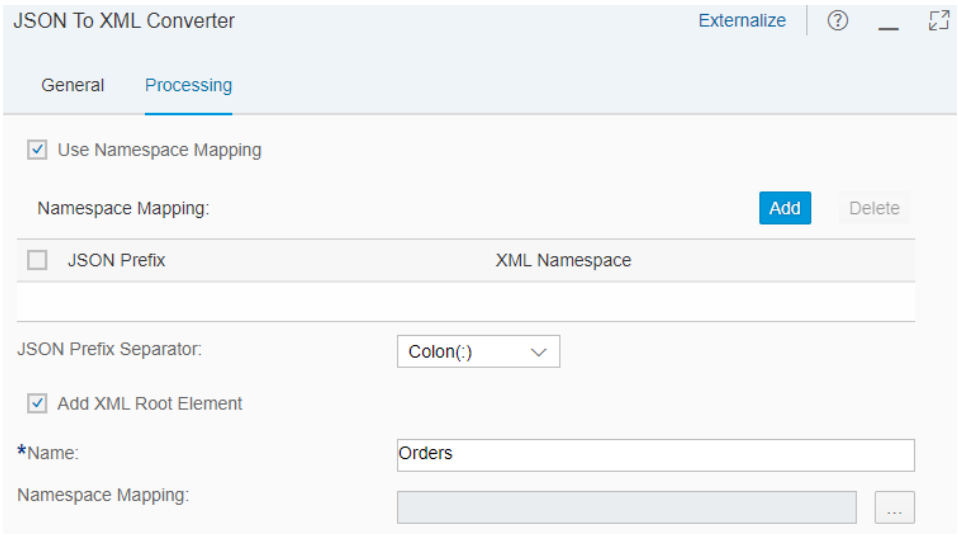
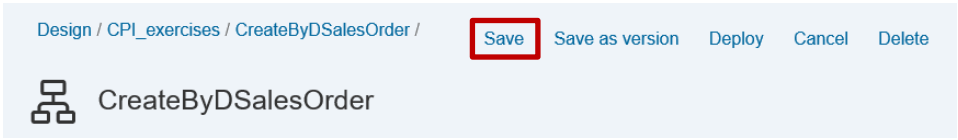
For B1:
 	
The JavaScript file opens with some default code.
 	
Replace the code to with the proposed here.
 	
Press **OK** to close the code editor.
	`importClass(com.sap.gateway.ip.core.customdev.util.Message);`
	`importClass(java.util.HashMap);`
	`function processData(message) {`
	`  var body = String(message.getBody(new java.lang.String().getClass()));`
	`  //create json object from string object`
	`  body = JSON.parse(body);`
	
	`  // get data from the HTTPS request body`
	`  var buyerPartyID = body.BuyerPartyID;`
	`  var reference = body.Reference;`
	`  var productID1 = body.ProductID1;`
	`  var quantity1 = body.Quantity1;`
	`  var productID2 = body.ProductID2;`
	`  var quantity2 = body.Quantity2;`
	
	`  var soBody = {`
	`    Document: {`
	`      Comments: "FromCPI" + reference,`
	`      DocDueDate: "2020-01-05T00:00:00", // + reference,`
	`      CardCode: buyerPartyID,`
	`      DocumentLines: [{`
	`        DocumentLine: {`
	`          ItemCode: productID1,`
	`          Quantity: quantity1`
	`        }`
	`      },`
	`      {`
	`        DocumentLine: {`
	`          ItemCode: productID2,`
	`          Quantity: quantity2`
	`        }`
	`      }]`
	`    }`
	`  };`
	
	`  message.setBody(JSON.stringify(soBody));`
	
	`  return message;`
	`}`

Press **Save**.	

v. Add a Converter JSON to XML format

OData receivers only accept XML format, we need to transform our JSON body to XML format.

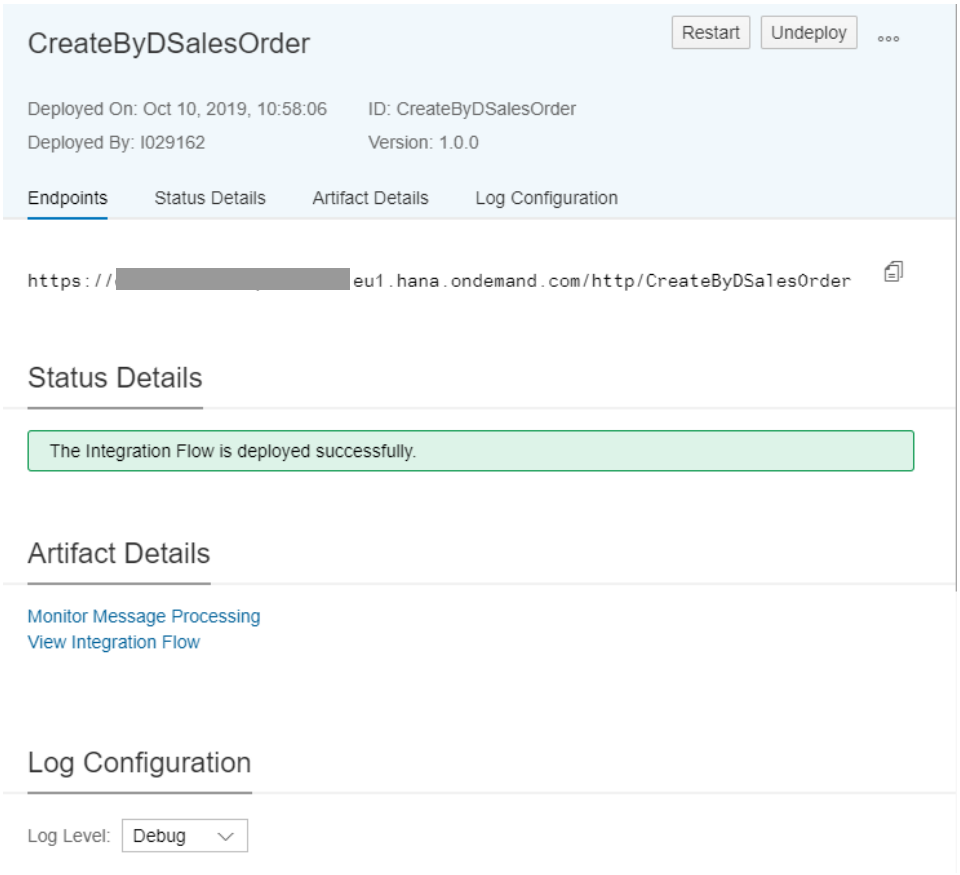
Explanation	Screenshot
Go to the palette, choose the **Message Transformers** icon and select the **Converter** icon.	
In the **Converter** submenu, select **JSON to XML Converter**.	
Place the JSON to XML converter Step shape between the Prepare body script and End event shapes.	
In the JSON to XML Converter properties, go to the General tab and change the Name to **JSON to XML Converter**.	

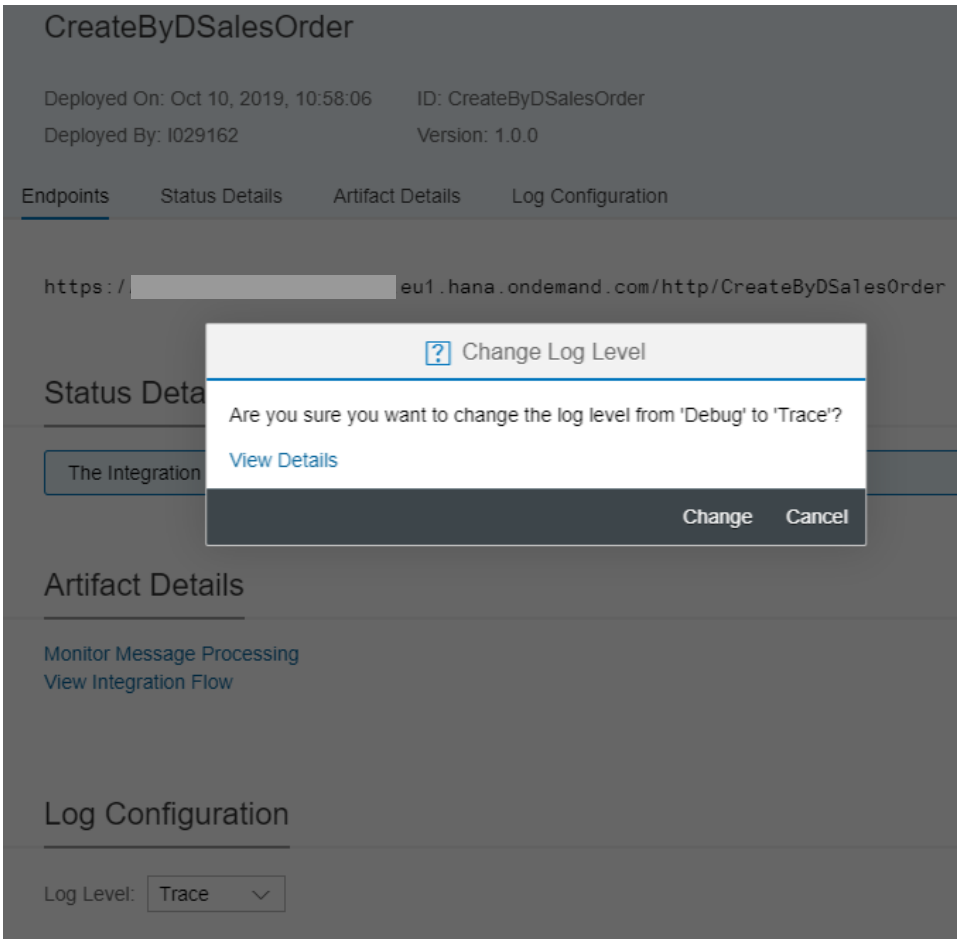
Explanation	Screenshot
For ByD: In the Processing tab check the **Add XML Root Element**. Enter the Name **SalesOrderCollection**. Make sure the JSON Prefix Separator is set to **Colon(:)**.	
For B1: In the Processing tab check the **Add XML Root Element**. Enter the Name **Orders**. Make sure the JSON Prefix Separator is set to **Colon(:)**.	
Press **Save**.	

vi. (Optional) Create a Script Step to Log the Payload

Follow the same steps as we did at Create a Script Step to Log the Payload.

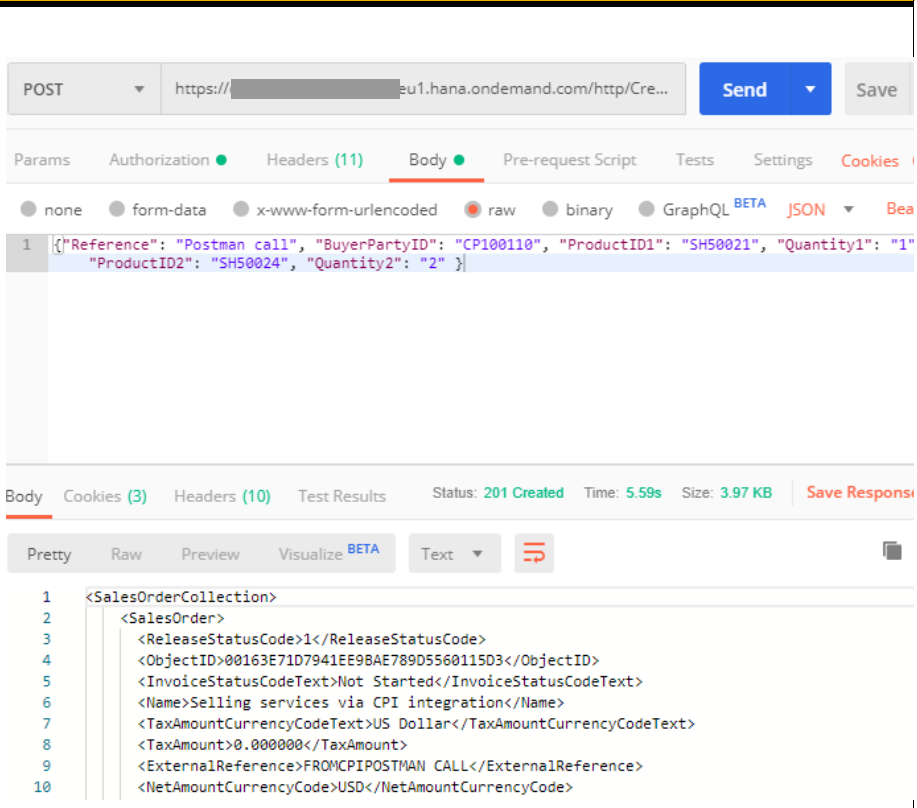
vii. Deploy the integration flow

Explanation	Screenshot
Follow the steps proposed in the previous exercise to Deploy the integration flow CreateByDSalesOrder.	

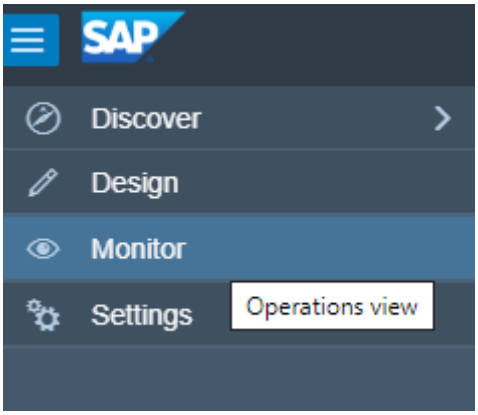
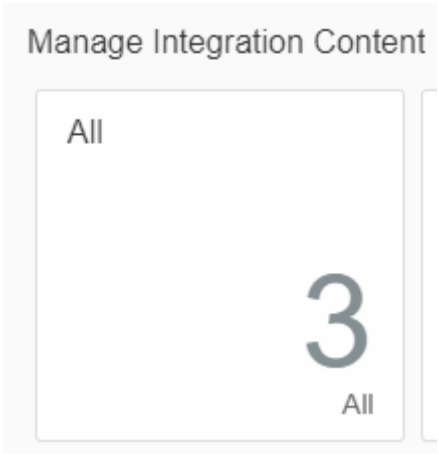
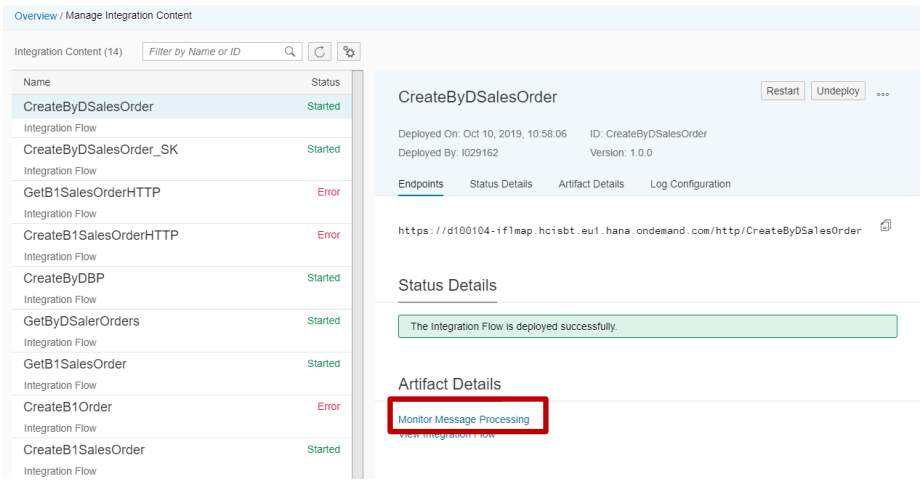
Explanation	Screenshot
If you want to explore all the details of your flow you can change the Log Level to “Trace”. This level will remain active for some minutes only to avoid performances issues.	

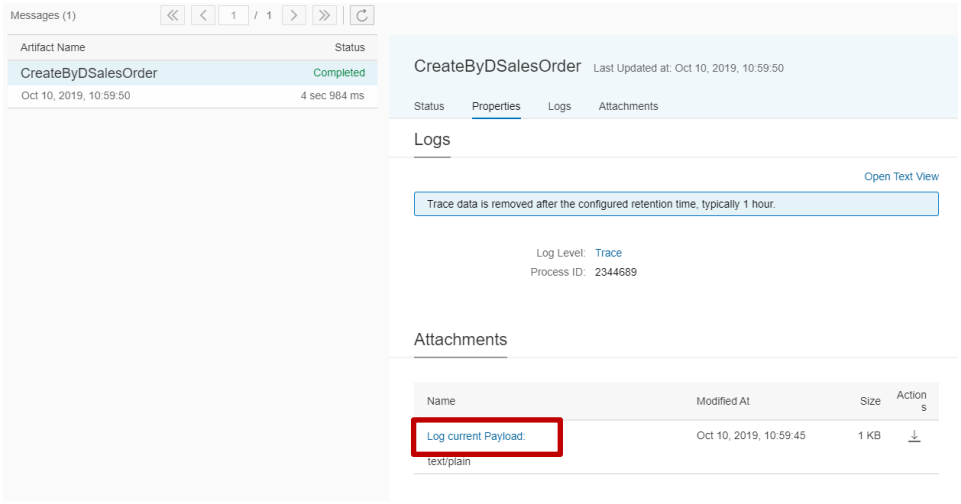
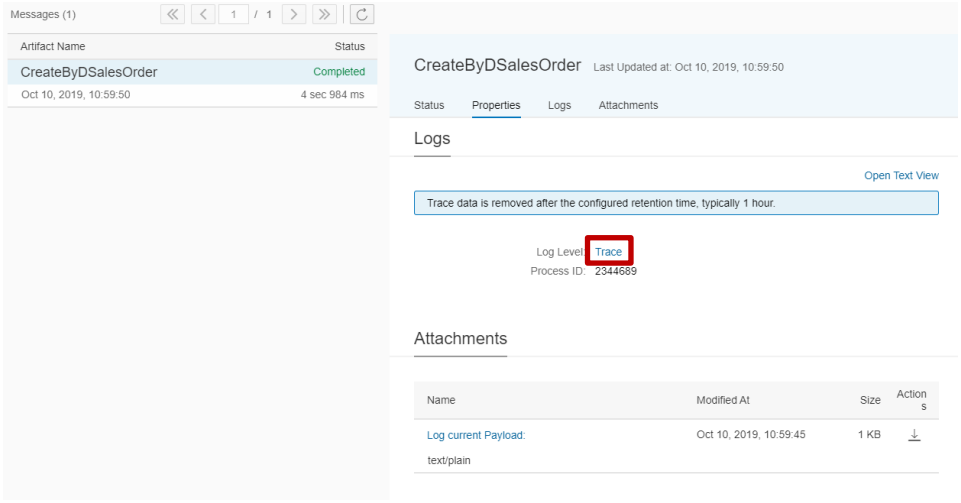
viii. Test your integration flow

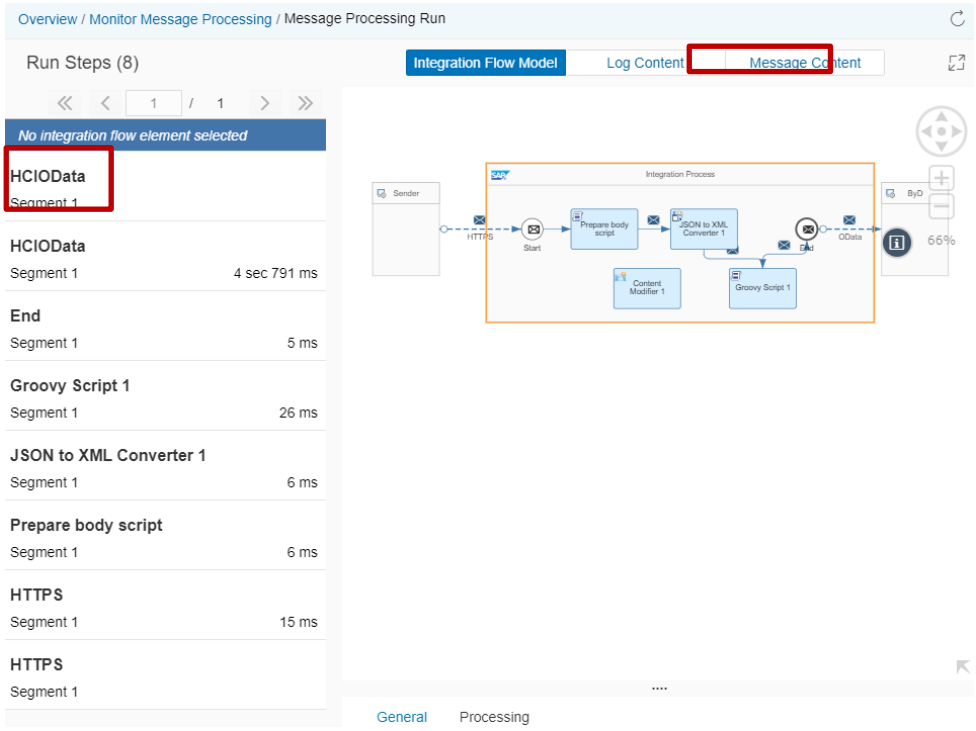
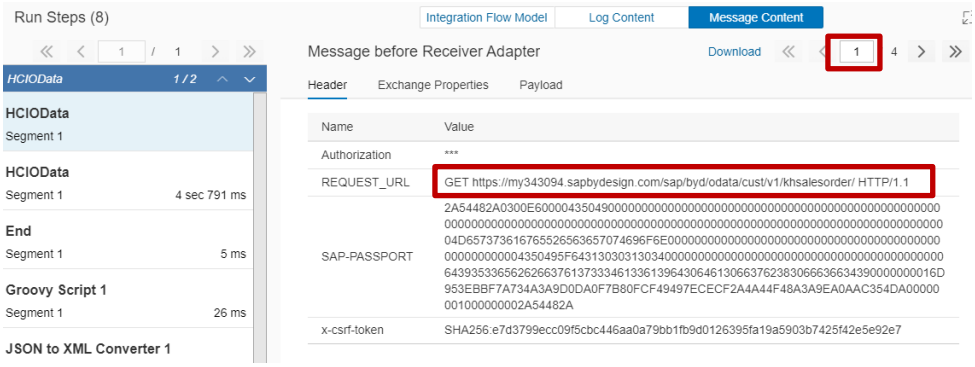
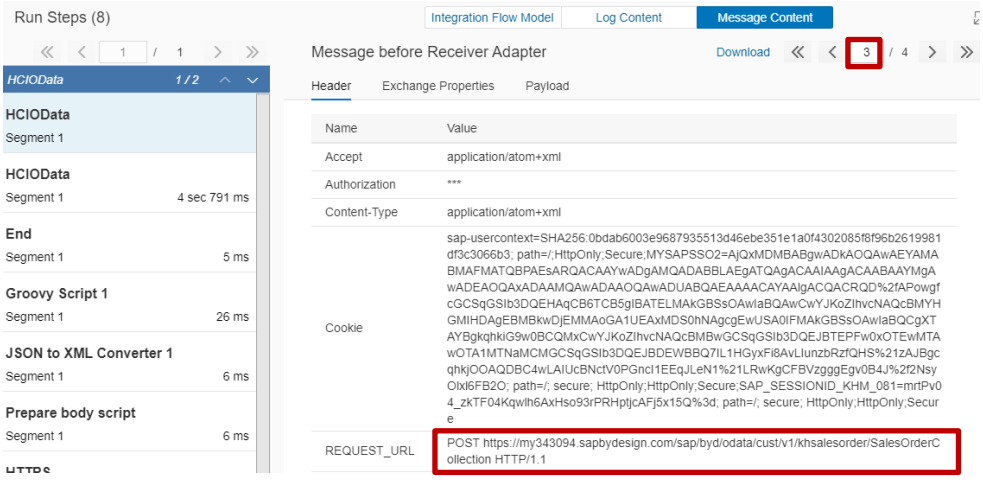
Explanation	Screenshot

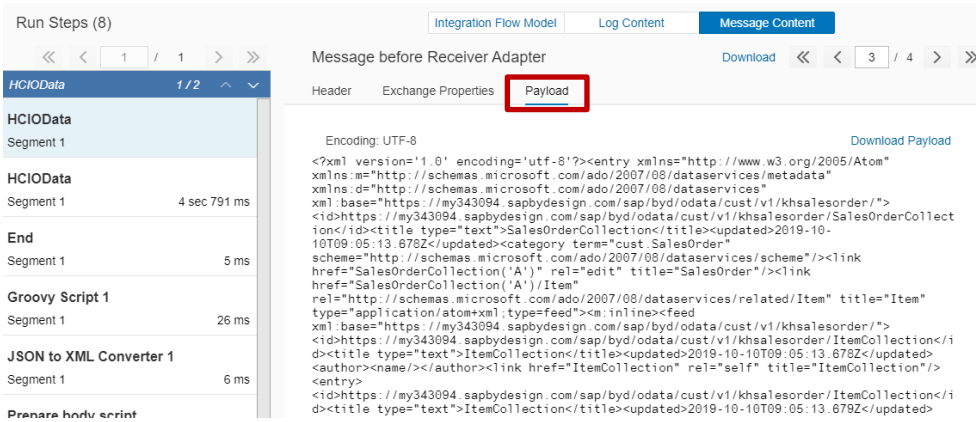
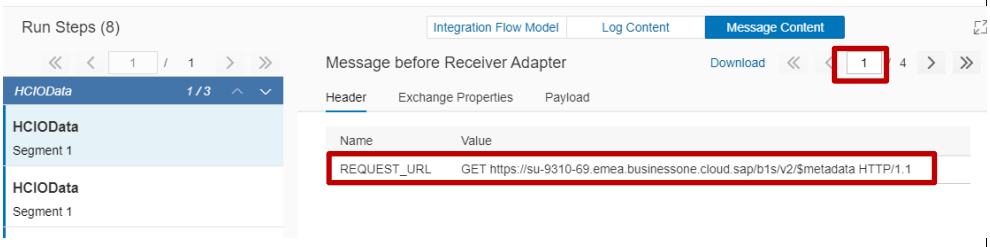
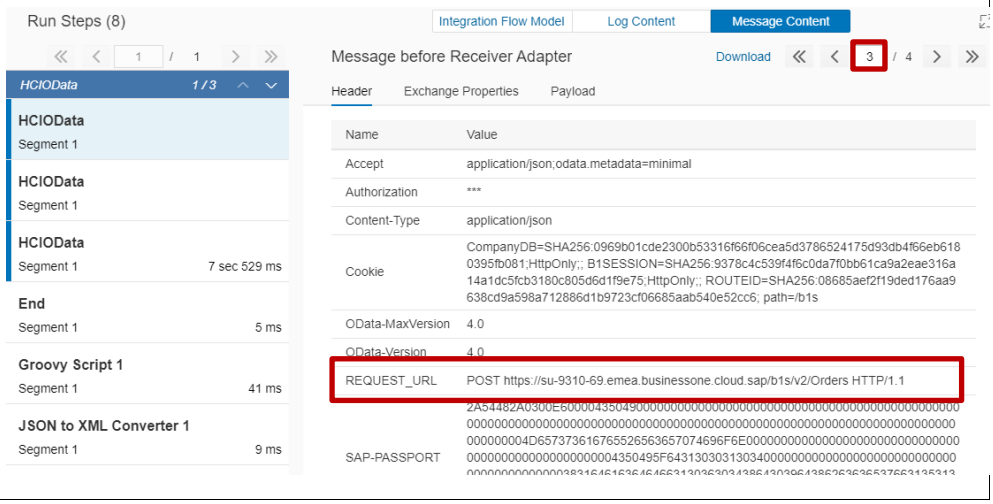
Using an HTTP client, send a POST request to the endpoint address.
 	
With a body like:
 	
{
"Name": "SO creation via CPI",
"Reference": "Postman call",
"BuyerPartyID": "CP100110",
"ProductID1": "SH50021",
"Quantity1": "1",
"ProductID2": "SH50024",
"Quantity2": "2"
}
 	
You will create a new Sales Order and get the response message from B1/ByD.
	

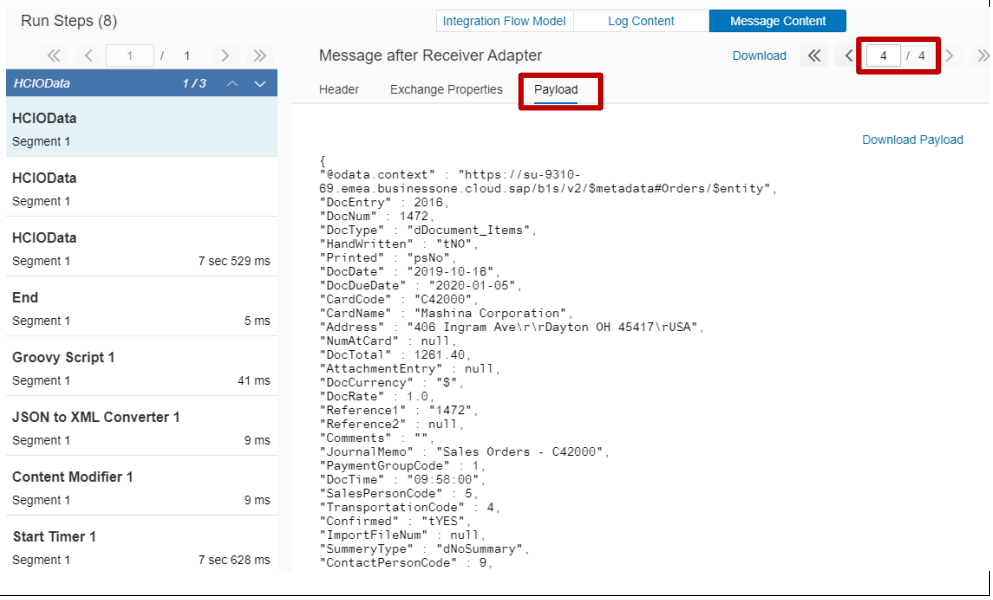
ix. Check the traces

Explanation	Screenshot
Chose the Operations/Monitor view to check the status of the deployment.	
Click the first tile in the **Manage Integration Content** section.	
In the new page **select your Integration Flow**. Press on the link **Monitor Message Processing**.	

Explanation	Screenshot
If you implemented the script for logging the payload, on the new page select **Attachments** section of your deployed flow you will be able to see the logged payload.	
On the same page you can click on the **Trace** link to open a detailed trace page.	

Explanation	Screenshot
In the new screen you will see all the steps run. You can click on any of the steps to see detailed information. **Select** for example the last Step on the top **HCIOdata**. Click on the **Message Content**.	
For ByD: Select **page 1**. You can see it is a GET request done automatically by CPI OData adapter in order to retrieve the csrf token.	
For ByD: Select **page 3**. It shows the POST request sent to ByD.	

Explanation	Screenshot
For ByD: Go to the **Payload** tab. You can see the Payload that has been sent to ByD in order to create the SalesOrder.	
For B1: Select **page 1**. You can see it is a GET request done automatically by CPI OData adapter in order to retrieve metadata.	
For B1: Select **page 3**. It shows the POST request sent to B1.	

Explanation	Screenshot
For B1: Select **page 4**. Check the **Payload** returned by B1 after the creation of the SalesOrder.	

Congratulations! You have completed now the CPI exercises.

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