

# **CONFIGURING, DEPLOYING AND MONITORING WEBUI BASED SCENARIO USING SAP CLOUD PLATFORM INTEGRATION**

## **Exercise04: SAP Cloud Platform Integration Components Used:**

- Timer Event
- SFSF(SOAP) Receiver Adapter with Delta Sync
- Dynamic SFAPI Parameters
- Message Mapping with Custom Functions
- Content Enricher
- SFTP Receiver Adapter

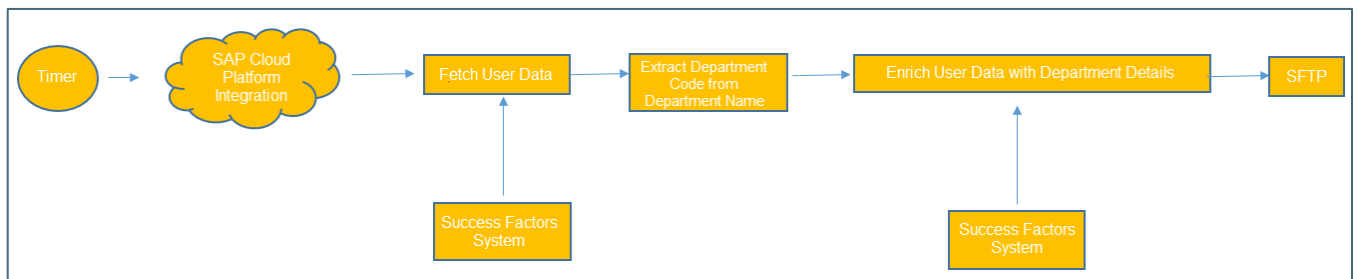
## INTEGRATION SCENARIO

**Use Case:** Employee data of Income Tax department needs to be fetched from the Success Factors system and put it on to the SFTP server.

As user data is fetched from **User** entity which has only department name but no department details, so it needs to be enriched with department data as well.

The process should be a scheduled process.

Additionally, we should transfer the data for updated users only (Delta Sync).

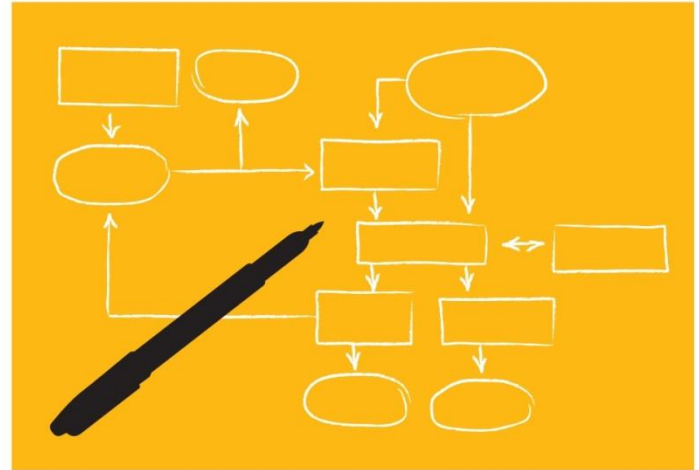


Welcome to the Integration Flow challenge!

In this exercise, your aim is to create an integration flow that solves a challenge (*described in the Integration scenario*).

And when you work your way through the exercise, our aim is that you learn:

1. How to access and work with the Cloud Platform Integration Web tooling
2. How to speed up your integration project by leveraging reference integration flows
3. How to customize a reference integration flow by configuring its connectivity and flow steps
4. Basic monitoring of an integration flow
5. Using Open-source tools to test your integration flow



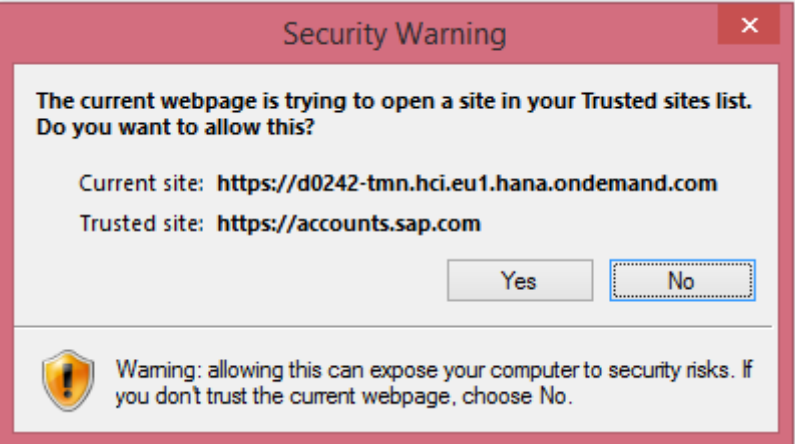
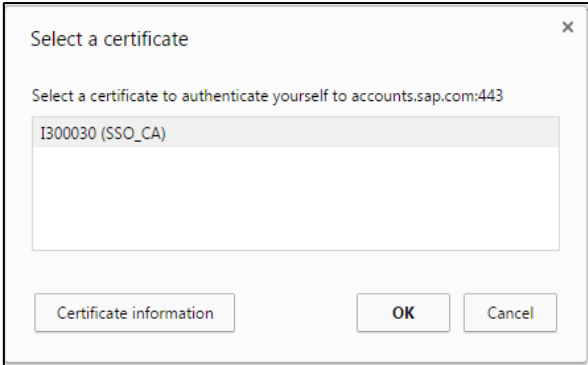
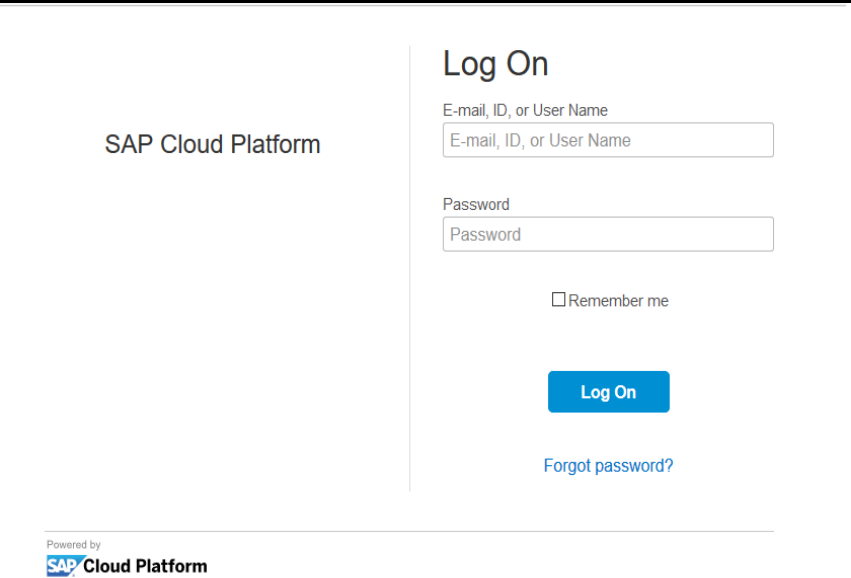
## Exercise Files

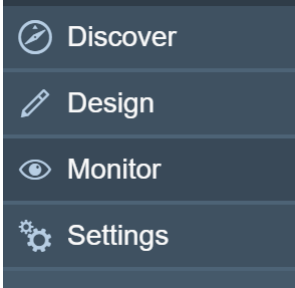
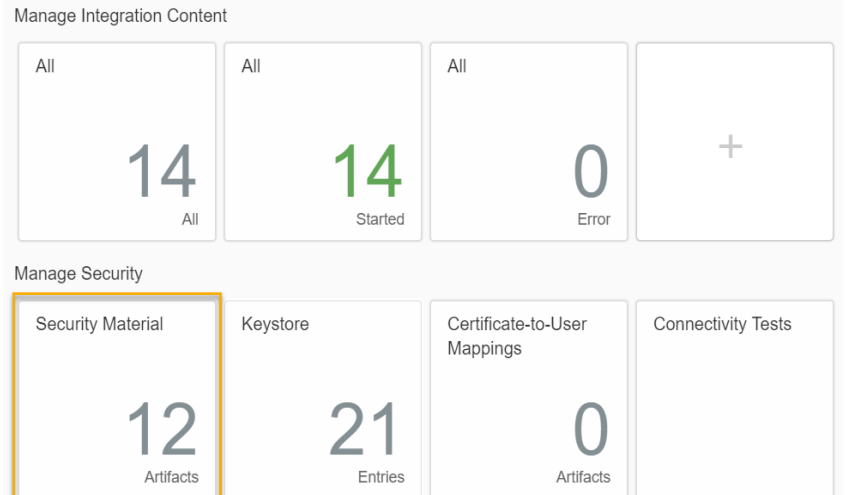
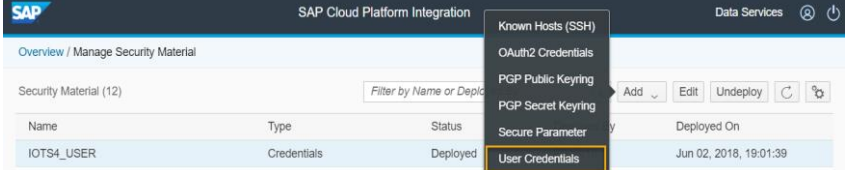
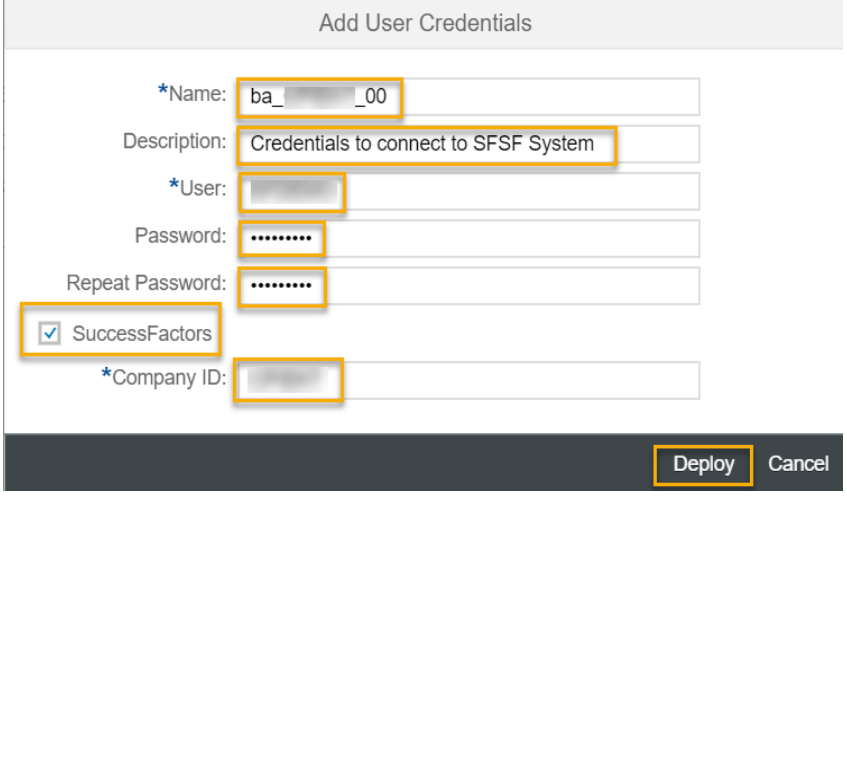
Exercise Files are provided by the session moderator. Download and Extract them into one of your local folders for use later in your exercises and setup:

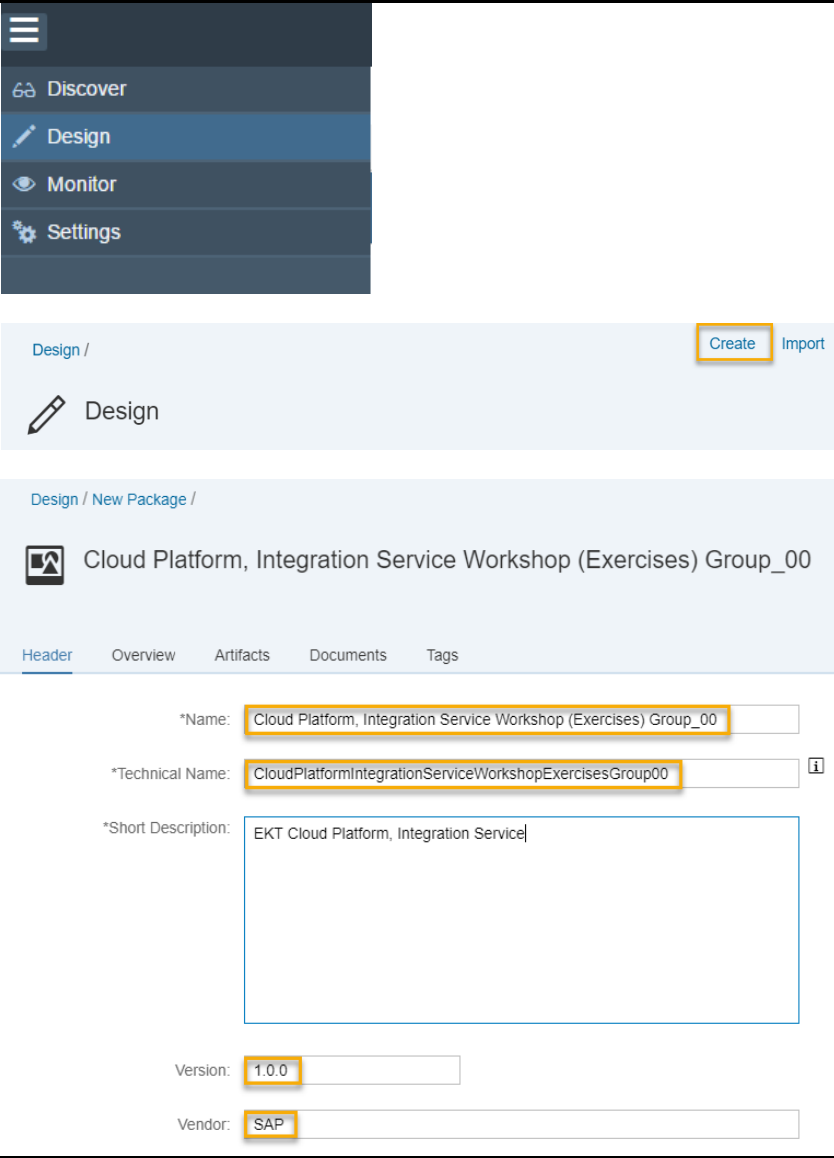
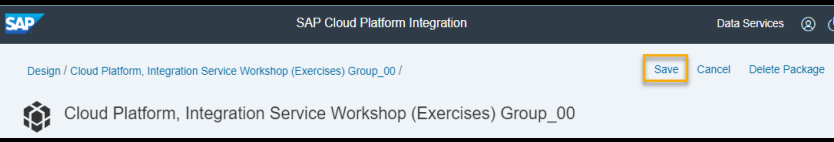
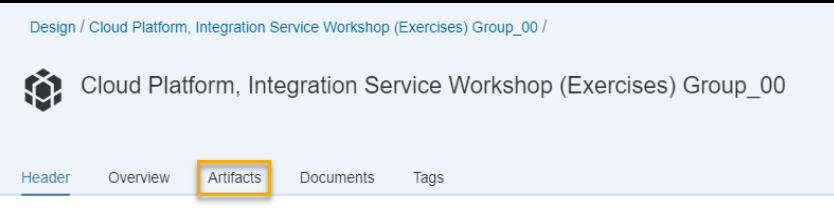
### Note

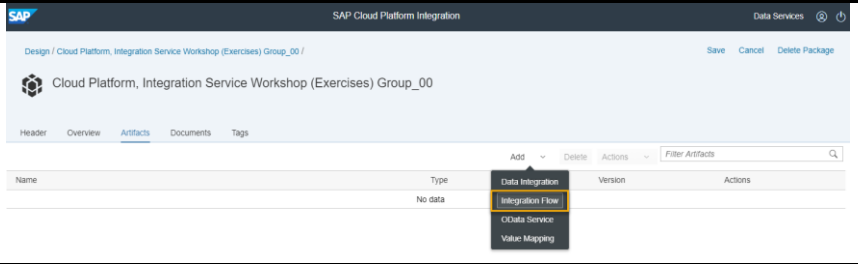
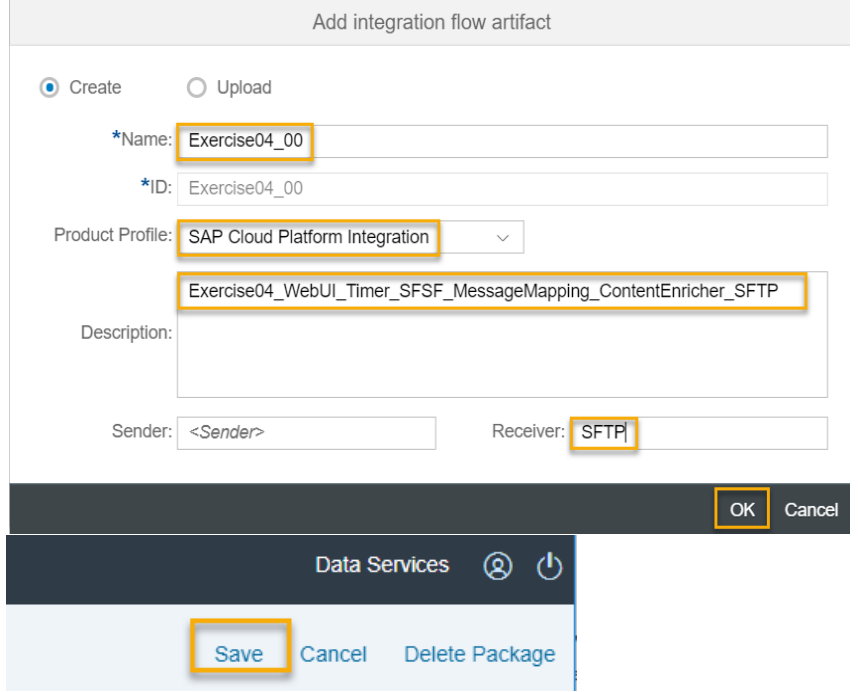





1. In the exercise, we have used the notation XX to refer to the content created by you or your group uniquely. The session moderator shall assist you with assigning you/group the unique ID that you can use to replace XX.
2. In the exercise, we have used **d0242/d0243** as the example tenants. The final tenant details shall be provided by the session moderator.
3. Please note that colours and other visual appearance might differ slightly from the screenshot screens, as the CPI editor might have received feature upgrades since production of this content.

## EXERCISE 04

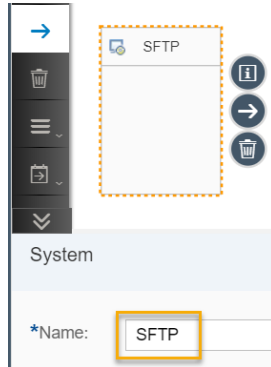
Explanation	Screenshot
<b>Deploying the Success Factors system user credentials on SAP CPI tenant using Web UI</b>	<b>Please follow these steps to deploy the Success Factors Credentials on SAP CPI</b>
<p>1) Access the Web application using Google Chrome (or IE10 Browser)</p> <ol style="list-style-type: none"> <li>Open Google Chrome</li> <li>Copy the application URL or <b>The URL that you can use will be assigned to you by the instructor.</b></li> <li>You will get a security warning if you want to open this site in your trusted sites list.</li> </ol> <p>Accept it with 'Yes'.</p>	 <p>A security warning dialog box titled "Security Warning" with a close button (X) in the top right corner. The main text reads: "The current webpage is trying to open a site in your Trusted sites list. Do you want to allow this?". Below this, it shows "Current site: https://d0242-tmn.hci.eu1.hana.ondemand.com" and "Trusted site: https://accounts.sap.com". At the bottom, there are "Yes" and "No" buttons. A warning icon (shield with exclamation mark) is on the left, and a warning message states: "Warning: allowing this can expose your computer to security risks. If you don't trust the current webpage, choose No."</p>
<p>2) If you get displayed your Certificate List, click on 'Cancel'</p>	 <p>A "Select a certificate" dialog box with a close button (X) in the top right corner. The text inside says: "Select a certificate to authenticate yourself to accounts.sap.com:443". Below this, there is a list box containing "I300030 (SSO_CA)". At the bottom, there are three buttons: "Certificate information", "OK", and "Cancel".</p>
<p>3) You will now see the log-on screen for the SAP ID Service/SAP Cloud Platform.</p> <p>Enter the following credentials:</p> <p><i>User:</i> &lt;Provided by instructor&gt;  <i>Password:</i> &lt;Provided by instructor&gt;</p>	 <p>The SAP Cloud Platform Log On screen. On the left, it says "SAP Cloud Platform". On the right, under the heading "Log On", there are two input fields: "E-mail, ID, or User Name" and "Password". Below these is a checkbox labeled "Remember me". A blue "Log On" button is at the bottom right. Below the button is a link that says "Forgot password?". At the very bottom, it says "Powered by SAP Cloud Platform" with the SAP logo.</p>

4) Navigate to the <b>Monitor</b> section	
5) In the section <b>Manage Security</b> , click on the tile with title <b>Security Material</b>	
6) Then click on <b>Add → User Credentials</b> as displayed in the Screenshot	
<p>7) Please maintain the following information and click <b>Deploy</b> to deploy the Success Factors system user credentials on SAP CPI</p> <p>Name: <b>ba_&lt;Company ID&gt;_XX</b></p> <p>Description: <b>Credentials to connect to SFSF System</b></p> <p>User: <b>&lt;provided by the instructor&gt;</b></p> <p>Password: <b>&lt;provided by the instructor&gt;</b></p> <p>Repeat Password: <b>Same as password</b></p> <p>SuccessFactors <b>Checked</b></p> <p>Company ID: <b>&lt;provided by the instructor&gt;</b></p>	

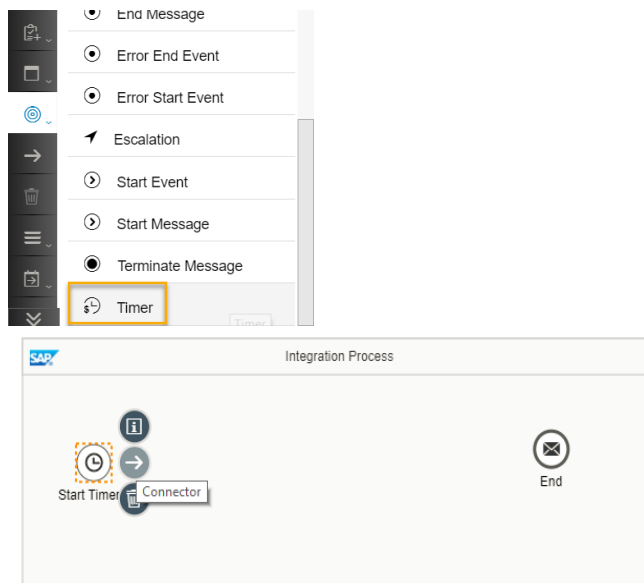
<p><b>Note:</b> Replace XX with your group number</p>	
<p><b>Follow these steps for integration flow creation in Web UI.</b></p>	
<p>8) Familiarize yourself with the environment and choose the <b>Design</b> area. Here, you will create an Integration Package to store your iFlows for different Exercises</p> <p>Click on <b>Create</b></p> <p>Enter Details</p> <p>a) <b>Name:</b> Cloud Platform, Integration Service Workshop (Exercises) Group_XX</p> <p><b>NOTE:</b> Replace XX with the group number provided by the instructor</p> <p>b) <b>Short Description:</b> EKT Cloud Platform, Integration Service</p> <p>c) <b>Version:</b> 1.0.0</p> <p>d) <b>Vendor:</b> SAP</p>	
<p>9) Click on Save</p>	
<p>10) Navigate to <b>Artifacts</b> Tab</p>	

<p>11) Click on <b>Add-&gt; Integration Flow</b></p>	
<p>12) Select <b>Create</b> and enter the following details:</p> <p>a. Name: <b>Exercise04_XX</b></p> <p>b. Description: <b>Exercise04_WebUI_Timer_SF_SF_MessageMapping_ContentEnricher_SFTP</b></p> <p>c. Receiver: <b>SFTP</b></p> <p>d. Click on <b>OK</b></p> <p><b>Note:</b> Please remember to save after every action</p>	
<p>13) Click on <b>Exercise04_XX</b></p>	
<p><b>Define and edit integration flow</b></p>	<p><b>Follow steps to edit the integration flow</b></p>
<p>14) Click on <b>Edit</b> button on the upper corner in the right-hand side</p>	
<p>15) Click on Sender system and click the <b>Delete</b> icon  to delete the system.</p> <p>Similarly, click on <b>Start</b> message and click <b>Delete</b> icon .</p>	

16) Click on Receiver system and set Name as **SFTP**

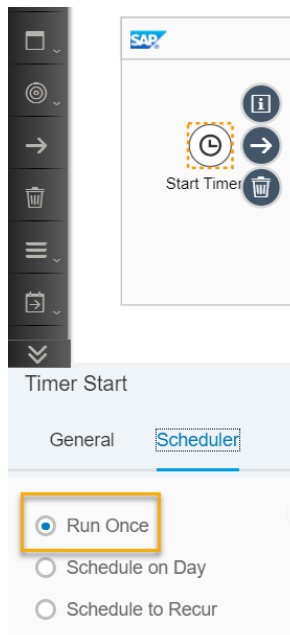


17) From the palette, select **Events -> Timer** and drop it to Integration Process



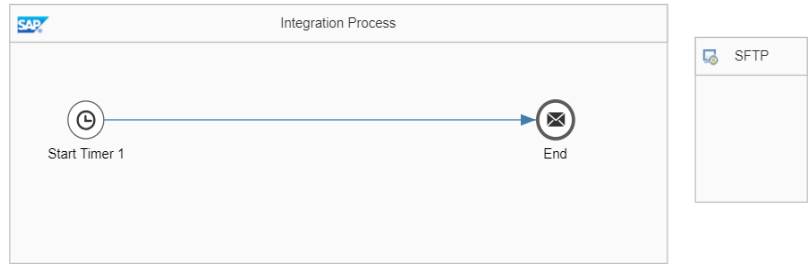
18) Switch to **Scheduler** tab and set it to **Run Once**.

This would ensure that iFlow is executed as soon as it is deployed





19) Connect **Timer** to **End Message** event



20) Click on **End** message step, select **Connector** and drag it to **SFTP** receiver system. This would open the receiver adapter list.

Select **SFTP** adapter

The screenshot shows the SAP Integration Suite interface. At the top, there is a toolbar with icons for 'End', 'Connector', and 'Delete'. Below this, the 'Integration Process' diagram is visible, showing a flow from 'Start Timer 1' to 'End'. A dialog box titled 'Adapter Type' is open, displaying a list of adapter types: HTTP, IDOC, JMS, LDAP, Mail, ODC, ProcessDirect, RFC, **SFTP** (highlighted with a yellow box), SOAP, SuccessFactors, and Twitter. Below the dialog, the 'SFTP' configuration page is shown, with tabs for 'General', 'Target', 'Processing', and 'Advanced'. The 'General' tab is active, showing fields for 'Name' (SFTP), 'Direction' (Receiver), 'System' (SFTP), and 'Description'. The 'ADAPTER DETAILS' section shows 'Adapter Type' (SFTP), 'Transport Protocol' (SFTP), and 'Message Protocol' (File).

21) Switch to **Target** tab, enter the following details:

- a. **Directory:**  
/CPI\_EKT/Group\_XX/outbox/Exercise04
- b. **File Name:**  
UserData.xml
- c. **Append Timestamp:**  
checked
- d. **Address:**  
<provided by the Instructor>
- e. **Authentication:**  
User Name/Password
- f. **Credential Name:**  
Name of credential object which holds SFTP user and password, deployed on the tenant.
- g. **Automatically Disconnect:**  
checked

Save

SFTP

General **Target** Processing Advanced

FILE ACCESS PARAMETERS

Directory: /CPI\_EKT/Group\_00/outbox/Exercise04

File Name: UserData.xml

☒ Append Timestamp

CONNECTION PARAMETERS

\*Address: [Redacted]

Authentication: User Name/Password

\*Credential Name: [Redacted]

Timeout (in ms): 10000

Maximum Reconnect Attempts: 3

Reconnect Delay (in ms): 1000

☒ Automatically Disconnect

22) From the palette, select **Message Transformers -> Content Modifier** and drop it on the connection between **Timer** and **End** message in the Integration flow. This would automatically create the connections.

Switch to **Message Header** tab, click on **Add** and add following headers:

1. Action: **Create**  
Name: **SFSF\_queryMode**  
Type: **Constant**  
Value: **queryMode=delta**
2. Action: **Create**  
Name: **SFSF\_resultOptions**  
Type: **Constant**  
Value: **resultOptions=changedSegmentsOnly,changedFieldsOnly**

Save

Content Modifier

Modifies incoming message with additional information

Content Modifier

Converter

Decoder

EDI Extractor

EDI Func. Ack.

Integration Process

Start Timer 1

Content Modifier 1

End

SFTP

Content Modifier

General **Message Header** Exchange Property Message Body Externalize

Action	Name	Type	Data Type	Value	Default	
Create	SFSF_resultOptions	Constant		resultOptions=changedSegmentsOnly,changedFieldsOnly		Add
Create	SFSF_queryMode	Constant		queryMode=delta		Add

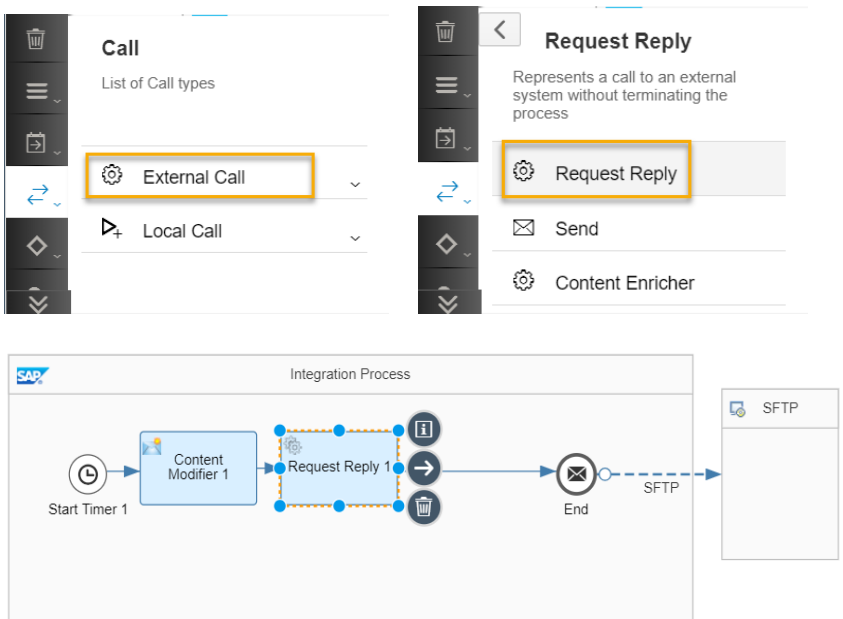
**Note:** Due to a known bug, SuccessFactors adapter doesn't process the event triggered by Start Timer with empty message body. To overcome this, switch to **Message Body** tab of the Content Modifier and add some dummy text like *test*.

Content Modifier

General Message Header Exchange Property **Message Body**

Body: test

23) From the palette, select **Call -> External Call -> Request Reply** and drop it on the connection between **Content Modifier** and **End** message in the Integration flow.



24) From the palette, select **Participants -> Receiver** and drop it on iFlow editor window outside the Integration Process

Participant

List of Participant elements

Receiver

Sender

25) Click on newly added Receiver system and set Name as **SFSF\_User**

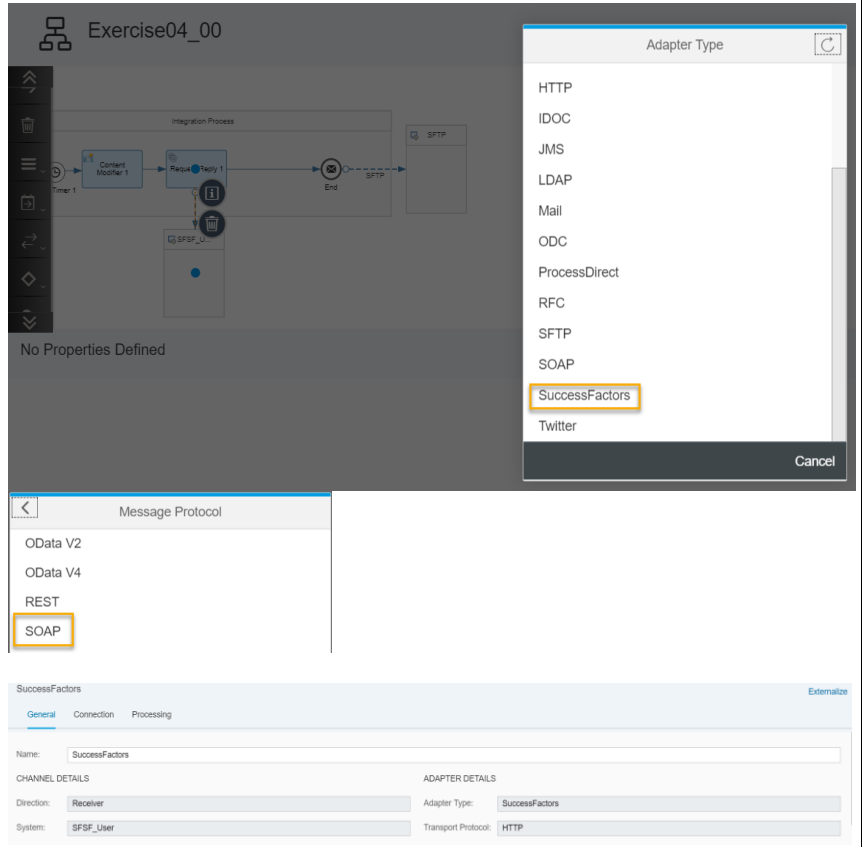
System

\*Name: SFSF\_User

26) Click on **Request Reply** step, select **Connector** and drag it to **SFSF\_User** receiver system. This would open the receiver adapter list.

Select **SuccessFactors** adapter

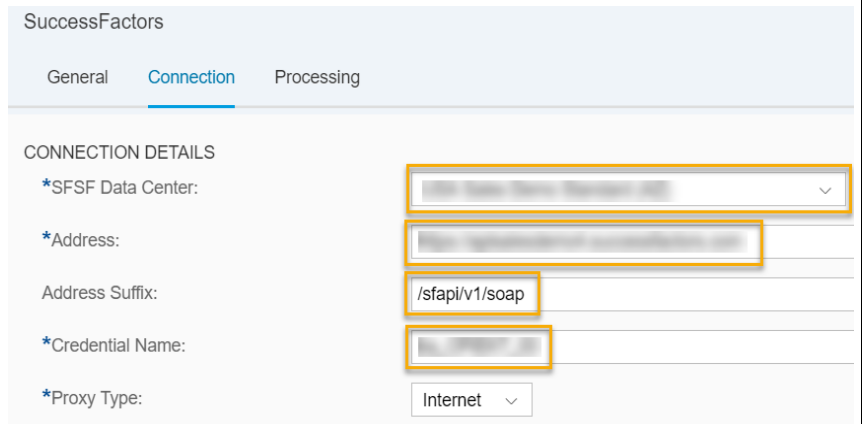
Select **SOAP** as Message protocol



27) Switch to **Connection** tab, enter the following details:

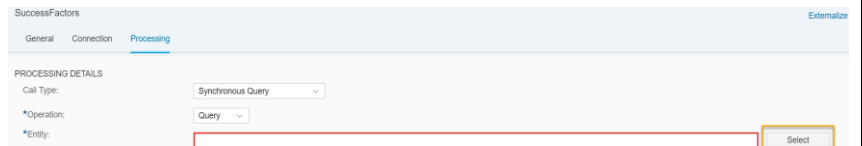
- SFSF Data Center:**  
<provided by the instructor>
- Address:**  
<provided by the Instructor>
- Address suffix:**  
/sfapi/v1/soap
- Credential Name:**  
Name used while deploying SFSF User Credential i.e. ba\_<Company ID>\_XX

Save



28) Switch to **Processing** tab, enter the following details for **Entity** field:

- Click on Select
- Click on + and enter the following details:



- i. System: **SFSF**
- ii. Address: **<provided by the Instructor>**
- iii. Company ID: **<provided by the Instructor>**
- iv. User Name: **<provided by the Instructor>**
- v. Password: **<provided by the Instructor>**

Click on **Connect**

- 29) An Entity list will appear  
Enter **User** in Search field and select it.

- 30) Select the following fields:

- a. username
- b. department

**Note:** It takes a while till fields are fetched from SFSF Entity, so please be patient

- 31) Switch to **Where** tab and enter the following details:

- a. **Filter by:** last Modified (type initial 2-3 characters, rest will be populated automatically)
- b. **Operator:** >
- c. **Input Type:** Delta Sync
- d. **Value:** maxDateFromLastRun (populate automatically)

Click on OK

**Note:** Delta Sync feature ensures that in case of scheduled iFlows, only changed data (data changed between last run and current run) is transferred in subsequent runs and not full data.

32) In **Query** text area, manually edit the query and add **lastModified** in SELECT statement as shown.

33) In **Parameters** field, enter the following:

**`${header.SFSF_queryMode};${header.SFSF_resultOptions}`**

**Note:** These are the headers defined in step 22.

**Explanation:** With Delta Sync, we get full data for changed users. With SFSF parameters **queryMode** and **resultOptions**, we can further optimize the query to fetch only changed data/segments/fields for changed Users.

### Dynamic parameters for SFSF adapter

You can define SFAPI operation parameters that you want to include in the operation (which has been modeled using the operations modeler wizard), dynamically

#### Code Syntax

key1=value1;key2=value2

#### Note

You can specify the custom parameters in following ways:

- `<Key>=<value>;<key>=<value>`
- `<header/property variable>=value;<header/property variable>=value`
- `<header/property variable>;<header/property variable>` here, the variable contains both the key and its value.

#### Example

`${property.ECERP_PARAMETERS};${header.ECERP}`, which contains the key-value pair

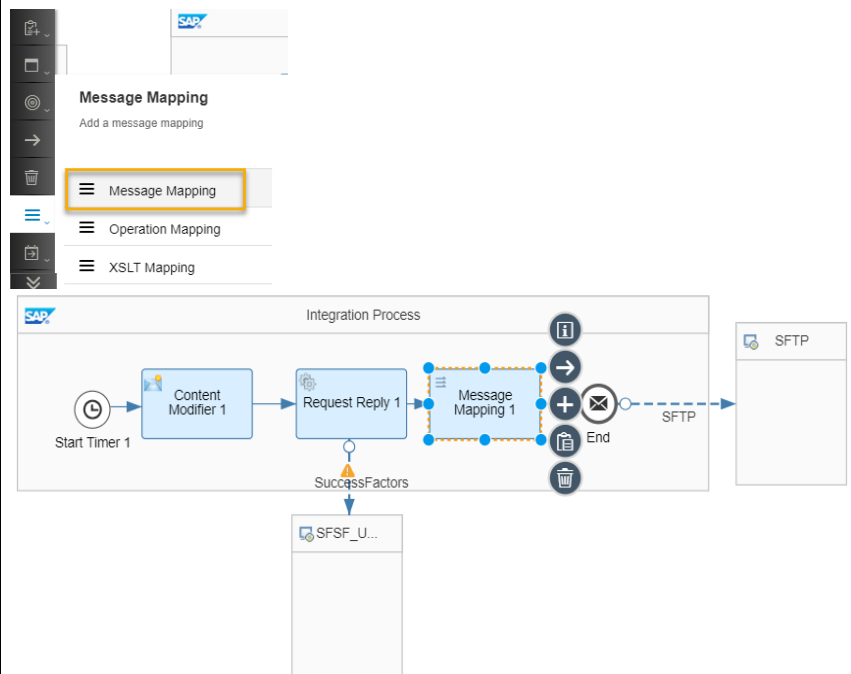
#### Example

`${property.ECERP_PARAMETERS}=processinactiveEmployees=true;resultOptions=allJobChangesPerDay`  
Here, you are specifying multiple key-value pairs in one property parameter.

**Important:** Source of these headers and properties used to define dynamic parameters, could be a third-party service(external call) or a configurable parameter (property/header of type **External Parameter** defined in a Content Modifier)

To simplify iFlow, we have defined it as a constant header in above step

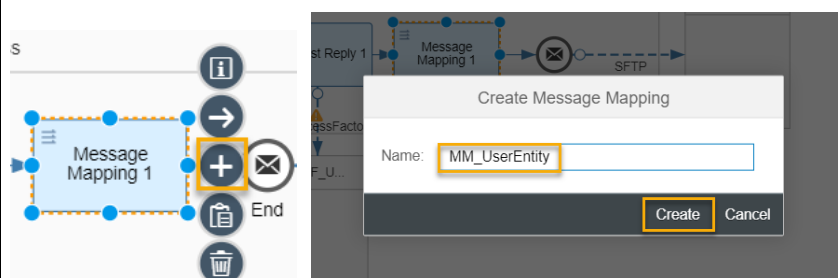
- 34) From the palette, select **Mapping -> Message Mapping** and drop it on the connection between **Request Reply** and **End** message in the integration flow



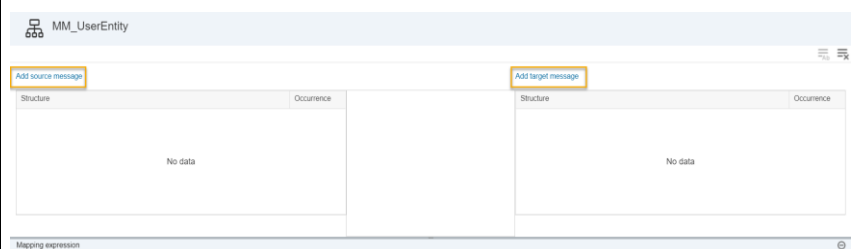
- 35) Click on **Create** icon . **Create Message Mapping** dialog will open, enter the **Name** of your mapping.

E.g. **MM\_UserEntity**

Click on **Create** button



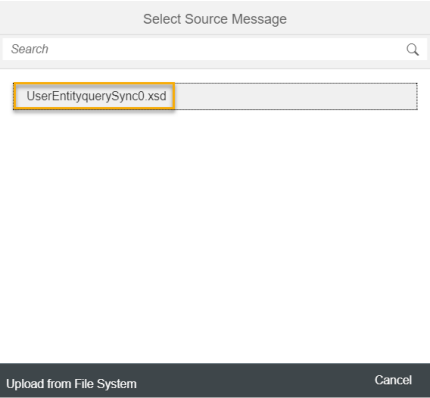
Mapping editor screen will open as shown in the screenshot.



Click on **Add source message**, then select the **UserEntityquerySync<counter>.xsd** for source message.

Click on **Add Target message**, then select the **UserEntityquerySync<counter>.xsd** for target message.

36) Drag and drop the source elements to the target elements and the overall mapping should look like as shown in figure.

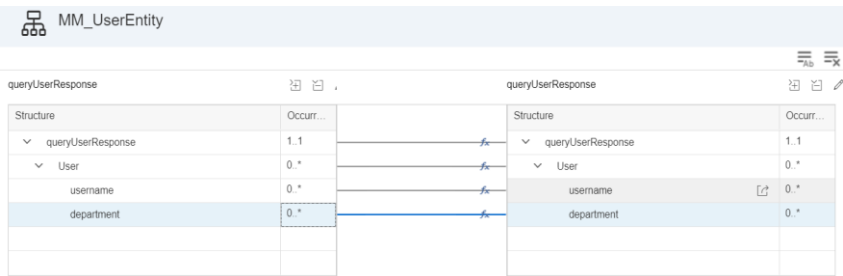
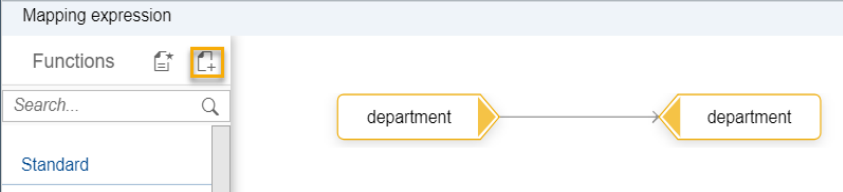
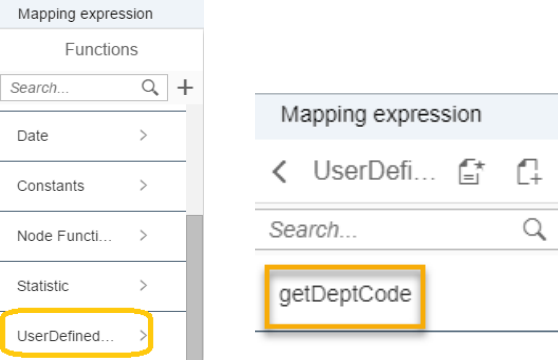
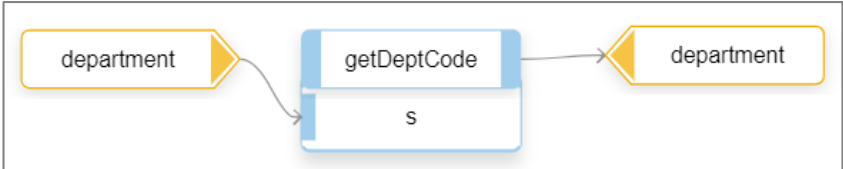


37) Message Mapping: **department**

- Click on **+ Assign**
- Click on **Upload from File system**
- Select **UserDefinedFunctions.gsh** (from Artifacts folder). With this, it should appear under **Functions -> Custom**
- Click on **UserDefinedFunctions**. Click on **getDeptCode**
- This would make it available in Mapping editor
- Delete existing connection between **constant** and **userID** and insert **getDeptCode** in between

**Explanation:** We would like to enhance User structure with department details. This could be done using Content Enricher in Enrich mode.

To use Content enricher in Enrich mode, we need to define a field which can be



used as a key (common value) in both entities.

In this case, for User Entity, department field has a value in following format:

**Talent Management (TALENT)**

and in Department entity, field externalCode has a value for example:

**TALENT**

Hence, we need to extract string enclosed within () and use this as a key (corresponding field in department is externalCode)

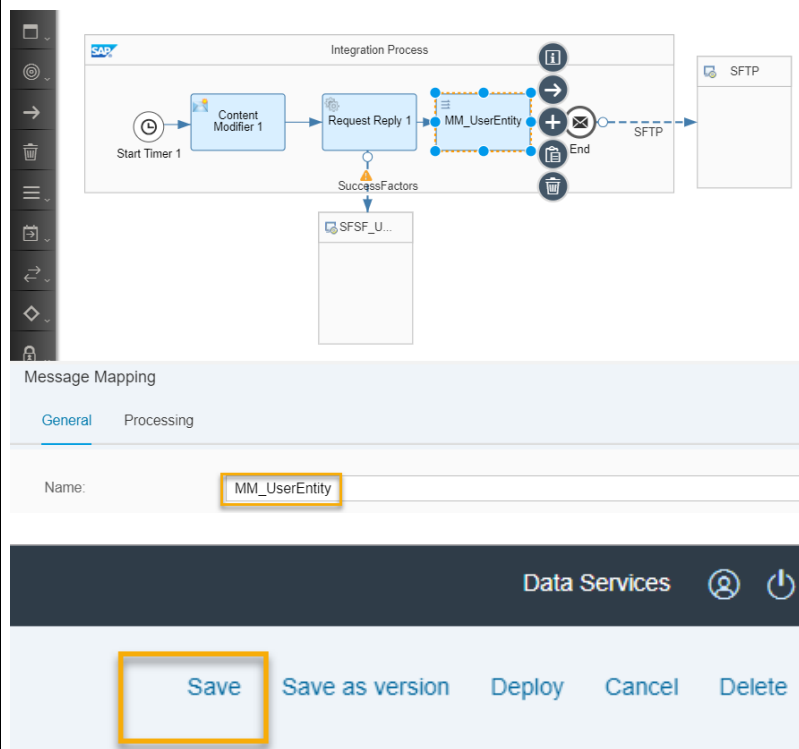
To extract string enclosed within (), we would create a mapping with user defined function **getDeptCode**

38) Click on the **OK** button to save the mapping changes

Simulate **OK** Cancel

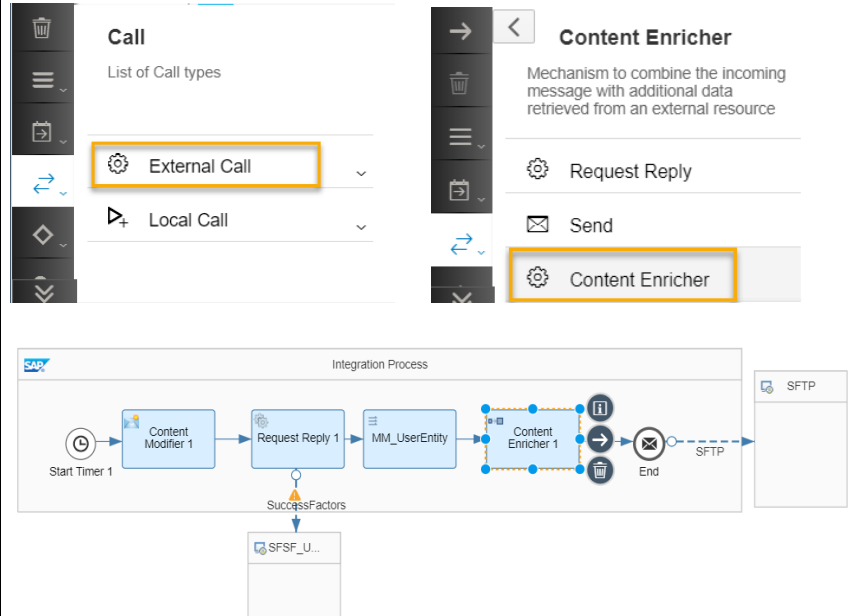
39) Select Mapping, give your mapping a meaningful name as shown in the screenshot.

Eg. **MM\_UserEntity**



Click on Save to save the changes

40) From the palette, select **Call -> External Call -> Content Enricher** and drop it on the connection between **Message Mapping** and **End** message in the integration flow



41) Switch to **Processing** tab and enter the following details:

a. **Aggregation Algorithm:** Enrich

b. **ORIGINAL MESSAGE:**

**Path to Node:**

queryUserResponse/User

**Key Element:** department

c. **LOOKUP MESSAGE:**

**Path to Node:**

queryFO\_departmentResponse/  
FO\_department

**Key Element:** externalCode

Save

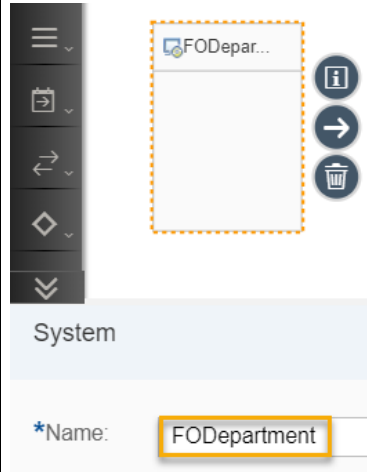
The screenshot shows the 'Content Enricher' configuration window with the 'Processing' tab selected. The 'General' tab is also visible. The configuration details are as follows:

- Aggregation Algorithm:** Enrich
- ORIGINAL MESSAGE:**
  - \*Path to Node:** queryUserResponse/User
  - \*Key Element:** department
- LOOKUP MESSAGE:**
  - \*Path to Node:** queryFO\_departmentResponse/FO\_department
  - \*Key Element:** externalCode

42) From the palette, select **Participants -> Receiver** and drop it on iFlow editor window outside the Integration Process



43) Click on newly added Receiver system and set Name as **FODepartment**

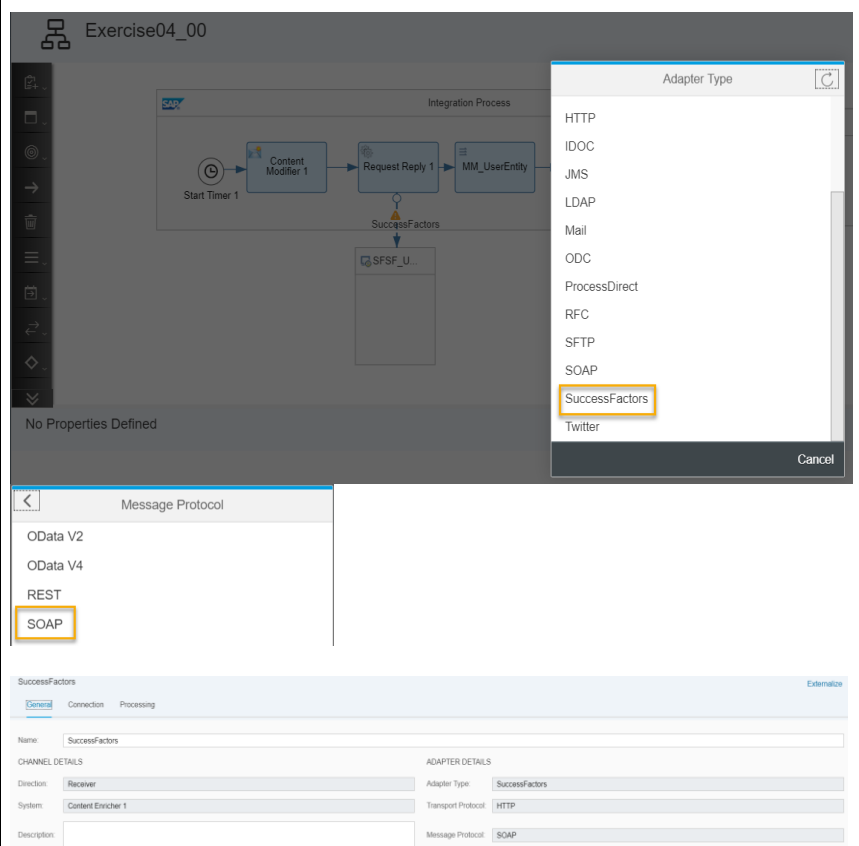


44) Connect **FODepartment** receiver system to **Content Enricher**. This would open the receiver adapter list.

Select **SuccessFactors** adapter

Select **SOAP** as Message protocol

**Note:** Direction of connection for Content Enricher should be inbound (Receiver -> Content Enricher)



45) Switch to **Connection** tab, enter the following details:

- e. **SFSF Data Center:**  
<provided by the instructor>
- f. **Address:**  
<provided by the Instructor>
- g. **Address suffix:**  
/sfapi/v1/soap
- h. **Credential Name:**  
Name used while deploying  
SFSF User Credential i.e.  
ba\_<Company ID>\_XX

Save

The screenshot shows the 'SuccessFactors' configuration window with the 'Connection' tab selected. The 'CONNECTION DETAILS' section contains the following fields: '\*SFSF Data Center:' (a dropdown menu), '\*Address:' (a text input field), 'Address Suffix:' (a text input field containing '/sfapi/v1/soap'), '\*Credential Name:' (a text input field), and '\*Proxy Type:' (a dropdown menu set to 'Internet'). Each of these fields is highlighted with a yellow rectangular box.

46) Switch to **Processing** tab, enter the following details for **Entity** field:

- a. Click on Select
- b. Click on + and enter the following details:
  - i. System: **SFSF**
  - ii. Address: <provided by the Instructor>
  - iii. Company ID: <provided by the Instructor>
  - iv. User Name: <provided by Instructor>
  - v. Password: <provided by Instructor>

Click on **Connect**

The screenshot shows the 'SuccessFactors' configuration window with the 'Processing' tab selected. The 'PROCESSING DETAILS' section includes 'Call Type:' (set to 'Synchronous Query'), '\*Operation:' (set to 'Query'), and '\*Entity:' (a text input field with a red border). To the right of the '\*Entity:' field is a 'Select' button. Below this, there are two 'System' configuration panels. The left panel has a 'System:' dropdown menu with a '+' button next to it, and fields for 'User Name:' and 'Password:'. The right panel has fields for 'System:', 'Address:', 'Company Id:', 'User Name:', and 'Password:'. The 'System:' dropdown in the left panel and the 'Address:', 'Company Id:', 'User Name:', and 'Password:' fields in the right panel are all highlighted with yellow rectangular boxes. At the bottom of each panel are 'Connect' and 'Cancel' buttons.

47) An Entity list will appear  
Enter **FO** in Search field and select  
**FO\_department**.

The screenshot shows the 'ENTITY\_SELECTION' dialog box. It has a search bar at the top with the text 'FO' entered. Below the search bar is a list of entity names: FO\_businessUnit, FO\_company, FO\_costCenter, FO\_department, FO\_division, FO\_dynamicRole, FO\_eventReason, FO\_frequency, FO\_geozone, and FO\_jobCode. The 'FO\_department' entry is highlighted with a yellow rectangular box. A small text box next to 'FO\_division' contains the text 'FO\_department', indicating it has been selected.

48) Select the following fields:

- a. costCenter
- b. description
- c. externalCode
- d. name
- e. status

Click on OK

Click on Save to save the changes

**Note:** It takes a while till fields are fetched from SFSF Entity, so please be patient

Cloud Platform, Integration Service Workshop (Exercises) Group\_00 / Exercise04\_00 / Query Editor / OK Cancel

{</>} Query Editor

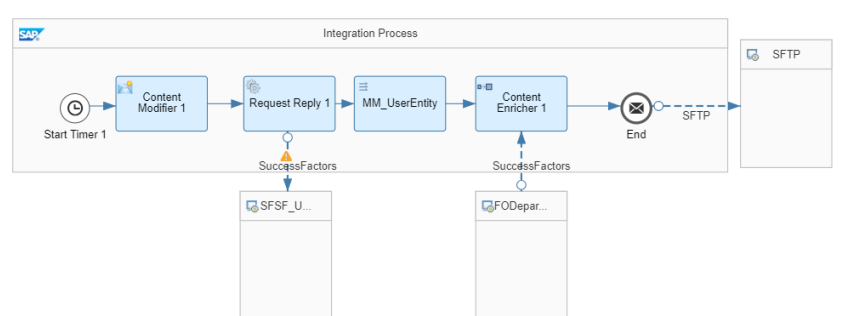
SELECT costCenter, description, externalCode, name, status FROM FO\_department

Entity Configuration

Entity: FO\_department Operation: Query

Fields: costCenter description externalCode name status

49) Your integration flow should look like this.



**Deploy Integration Project on tenant:**

**Follow this step to deploy Integration Project on tenant.**

50) Press **Deploy** in the Integration Flow Task Bar.

Save Save as version Deploy Cancel Delete

51) You will receive a confirmation. Click on **Yes**.

Once the deployment is completed successfully you will receive a 2<sup>nd</sup> notification.

? Confirmation

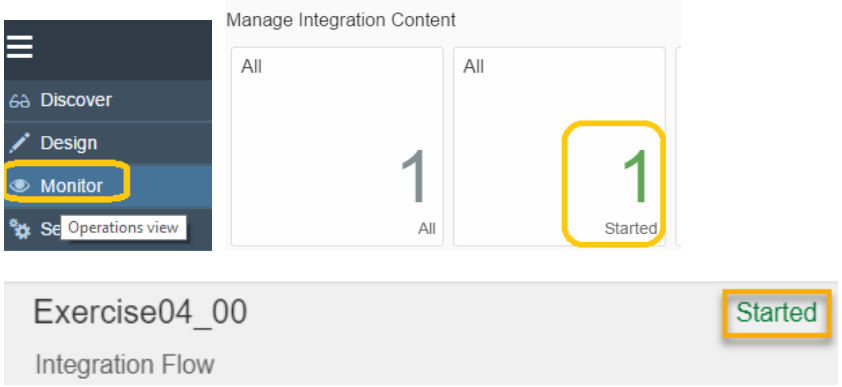
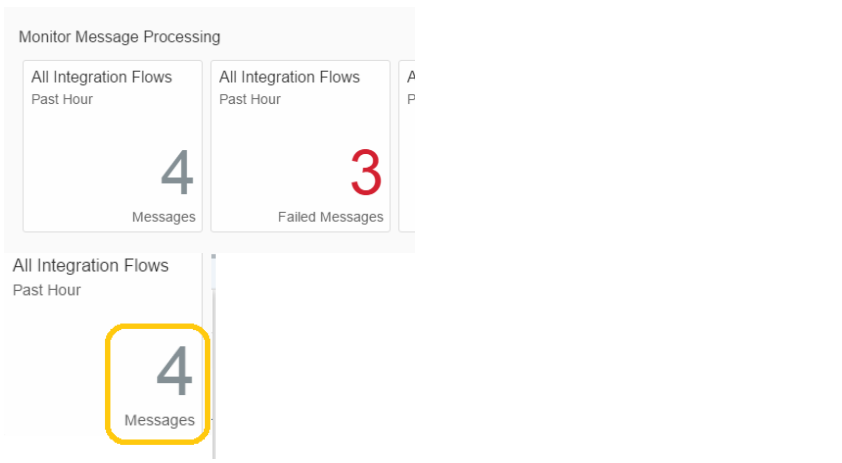
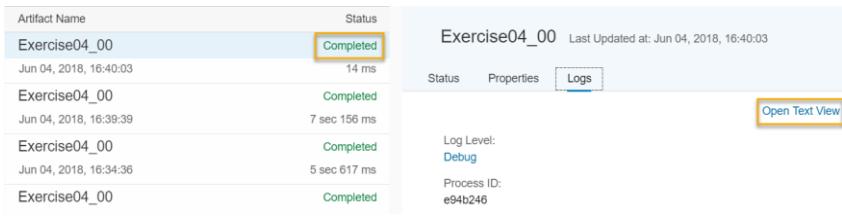
Do you want to deploy?

Yes No

i Deployment

'Exercise04\_00' is triggered for deployment.

OK

<p>52) Verify if the deployment is successful:</p> <p>In the first level Menu Bar switch to Section <b>Monitor</b> and then click on <b>All</b> in <b>Manage Integration Content</b>.</p> <p>You should see an entry with your integration flow.</p> <p>Check the 'status'. It should be in status <b>Started</b>.</p>	
<p><b>Execute end to end scenario:</b></p>	<p><b>Follow steps to execute end to end scenario.</b></p>
<p>53) As this is a Timer triggered iFlow and we have set schedule as Run Once, it would be executed immediately after the deployment.</p>	
<p>54) Switch to Section <b>Monitor</b> -&gt; Select <b>Messages</b></p> <p>On this dashboard you will find all the messages processed as per the status.</p> <p>If there is any error, you will find the processing/ error log in the Error Messages section on the dash board.</p> <p>Click on All messages</p>	
<p>55) If message is successful, it can be seen with <b>Completed</b> status. Message Processing Log(MPL) and MPL attachments can be checked on clicking respective links on the right side.</p>	

56) Go to the Message Details and check the log for successful processed message.

Overview / Monitor Message Processing / Message Processing Log Attachments

Artifact Name: Exercise04\_00      Status: Completed      Processing Time: 14 ms  
 Last Updated at: Jun 04, 2018, 16:40:03      Log Level: Debug

[Log](#)

```

Message Processing Log:
StartTime      = Mon Jun 04 11:10:03.967 UTC 2018
StopTime       = Mon Jun 04 11:10:03.981 UTC 2018
OverallStatus  = COMPLETED
MessageGuid    = AFsVHguywwW5Dxs3cLf7MPKSNvnp
ChildCount     = 0
ChildrenCounter = 4
ContextName    = Exercise04_00
CorrelationId  = AFsVHguywwW5Dxs3cLf7MPKSNvnp
IntermediateError = false
Node           = vsa4306674
ProcessId      = e94b246684f2d5a791bd6e81440e7ea1993bb150

Segment:
Entering Camel route route22:
StartTime      = Mon Jun 04 11:10:03.968 UTC 2018
ChildCount     = 1
ModelStepId    = StartEvent_5

Exchange ID-vsa4306674-46382-1527822462700-49-2 created in Endpoint[quartz2://Exercise0400TimerEver
fireNow=true&trigger.repeatCount=0&trigger.repeatInterval=0]:
StartTime      = Mon Jun 04 11:10:03.974 UTC 2018
Status         = PROCESSING
ChildCount     = 2
ModelStepId    = StartEvent_5

Exchange ID-vsa4306674-46382-1527822462700-49-2 completed:
StartTime      = Mon Jun 04 11:10:03.980 UTC 2018
Status         = COMPLETED
  
```

57) To check the output file, connect to the SFTP server using FileZilla client and drill down to your target directory **/CPI\_EKT/Group\_XX/outbox/Exercise04**

Open output file using Notepad and view the output

Remote site: /home/sftp1/CPI\_EKT/Group\_00/outbox/Exercise04

Filename

UserData20180604110939.xml

```

<?xml version="1.0" encoding="UTF-8"?>
- <queryUserResponse>
  - <User>
    <username>v4admin</username>
    <department>N/A</department>
  </User>
  - <User>
    <username>admin</username>
    <department>IND</department>
    - <FO_department>
      <costCenter>30000</costCenter>
      <description/>
      <externalCode>IND</externalCode>
      <name>Industries</name>
      <status>A</status>
    </FO_department>
  </User>
  
```

58) Redeploy the scenario to run it with **Delta Sync**.

It will not return any data, due to Delta Sync no updated record is found and returned.

Remote site: /home/sftp1/CPI\_EKT/Group\_00/outbox/Exercise04

- C5250257
- chrome
- connection\_test
- CPI\_EKT
  - Group\_00
    - outbox
      - Exercise04

Filename	Filesize
..	
UserData20180604114613.xml	77
UserData20180604114558.xml	89,634

```
<?xml version="1.0" encoding="UTF-8"?>
<queryUserResponse/>
```

59) To reset Delta Sync, change the name of the **SFSF adapter**


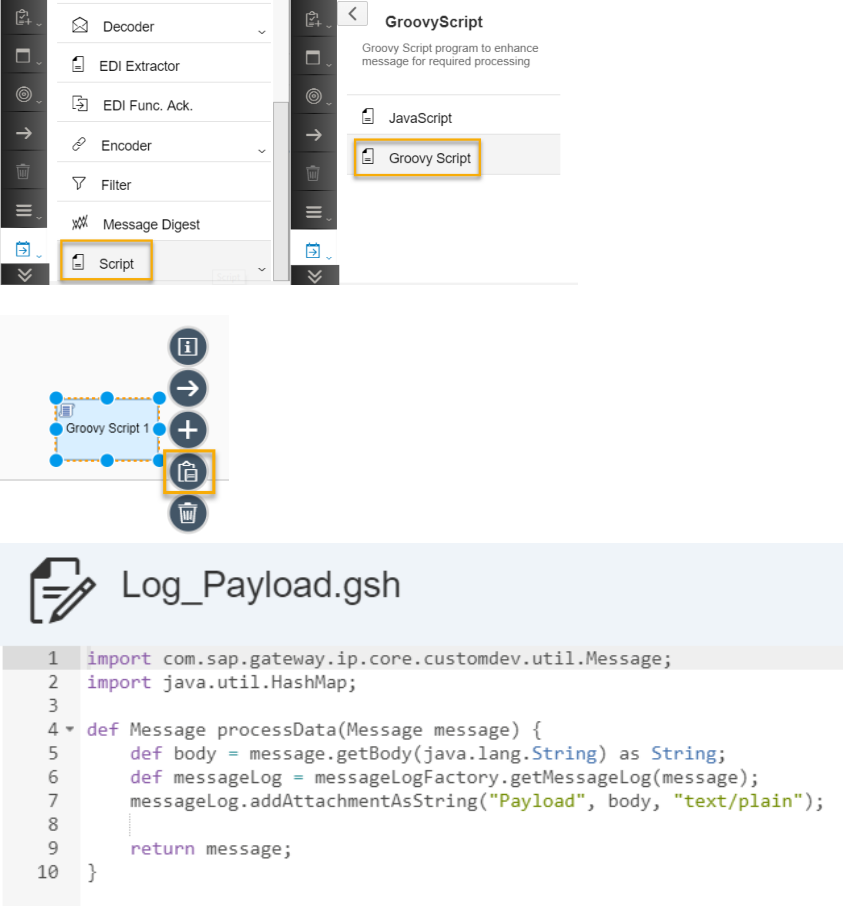
Integration Process

SuccessFactors

General Connection Processing

Name: SuccessFactors\_2



Optional: Check payload after/before any step in iFlow	MPL Attachments
<p>60) A groovy script is provided which writes payload in MPL which is quite useful for debugging purpose. It can be added before/after any step in iFlow using the following steps:</p> <ol style="list-style-type: none"> <li>From palette, select <b>Message Transformers -&gt; Script -&gt; Groovy Script</b> and drop it on the connection after the flow step in the Integration flow where you want to log the payload.</li> <li>Click on <b>Assign</b> icon .</li> <li>Upload <b>Log_Payload.gsh</b> file from file system provided by the instructor.</li> <li>Rename the script as <b>Log Payload</b></li> </ol> <p>Save</p>	 <p>The screenshot displays the SAP iFlow Designer interface. On the left, the 'Script' component is selected from the 'Message Transformers' palette. The main workspace shows a flow diagram with a 'Groovy Script 1' component. Below the diagram, the 'Log_Payload.gsh' script is shown with the following code:</p> <pre> 1 import com.sap.gateway.ip.core.customdev.util.Message; 2 import java.util.HashMap; 3 4 def Message processData(Message message) { 5     def body = message.getBody(java.lang.String) as String; 6     def messageLog = messageLogFactory.getMessageLog(message); 7     messageLog.addAttachmentAsString("Payload", body, "text/plain"); 8     return message; 9 } 10 </pre>
61) Redeploy the scenario	