Connecting with SAP Fieldglass from SAP ECC and S/4 HANA via SAP Cloud Integration

How to configure iFlows and connectivity in SAP Cloud Integration, SAP ECC and SAP Fieldglass

THE BEST RUN SAP

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1 CONNECTING WITH SAP FIELDGLASS FROM SAP ECC AND S/4 HANA VIA SAP CLOUD INTEGRATION

This document describes the configuration steps for the integration of SAP Fieldglass Web Services via SAP Cloud Integration.
The Asapio integration content in its current versions contains the following artifact/iFlows which are described in the following subchapters:

- FG_SAPECC_POCLOSURE
- FG_SAPECC_PUSH
- SAPECC_FG_CONNECTORN
- SAPECC_FG_CONNECTORV2

In all iFlows the Web Services in the Receiver System are called generically. All iFlows act as a routethrough of the Web Service Payload and expect the Sender to convert it into the correct format. There're no message mappings included in the iFlows.

1.1. FG_SAPECC_POCLOSURE

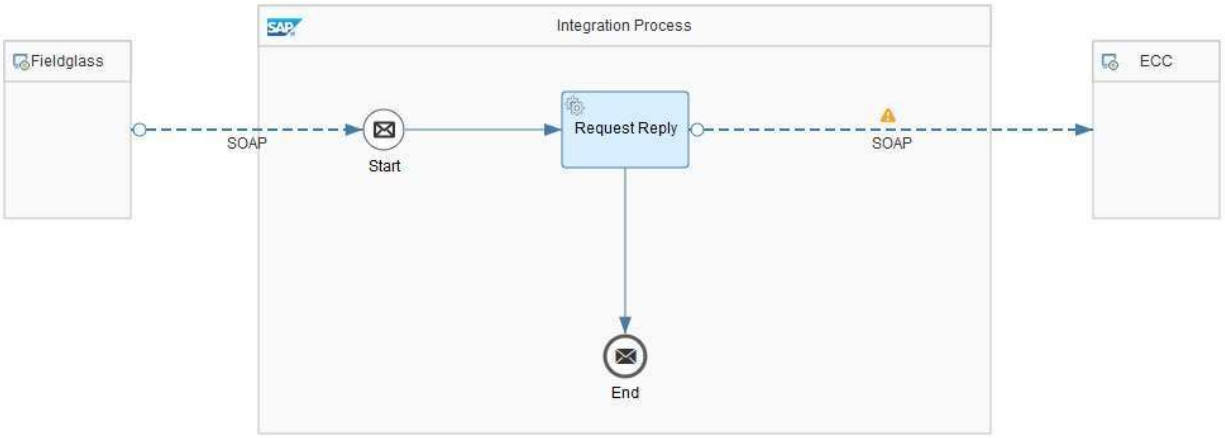

Figure 1: Integration Flow

SAP Fieldglass pushes payloads for Web Service "ExternalOrderCloseReopenRequest" via SAP Cloud Integration into the connected SAP ECC system. A generated Server Proxy must exist in the Receiver System. It's a synchronous call that sends direct response to the Sender.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:sap-com:document:sap:rfc:functions">
   <soapenv:Header/>
   <soapenv:Body>
      <urn:ExternalOrderCloseReopenRequest partition="" variant="" xmlns:urn="urn:Ariba:Buyer:vrealm_1">
         <urn:ExternalReqForOrderInput_Item>
            <urn:item>
               <urn:ExternalReqId>XXXXTQ00001234</urn:ExternalReqId>
               <urn:Operation>CLOSE</urn:Operation>
               <urn:ExternalReqUrl/>
               <urn:HeaderComments>Other (see comments) / Autre (voir les commentaires)</urn:HeaderComments>
               <urn:RequesterUniqueName>Rita.Sowcreator</urn:RequesterUniqueName>
            </urn:item>
         </urn:ExternalReqForOrderInput_Item>
      </urn:ExternalOrderCloseReopenRequest>
   </soapenv:Body>
</soapenv:Envelope>
```

Figure 2: Example Payload

1.2. FG_SAPECC_PUSH

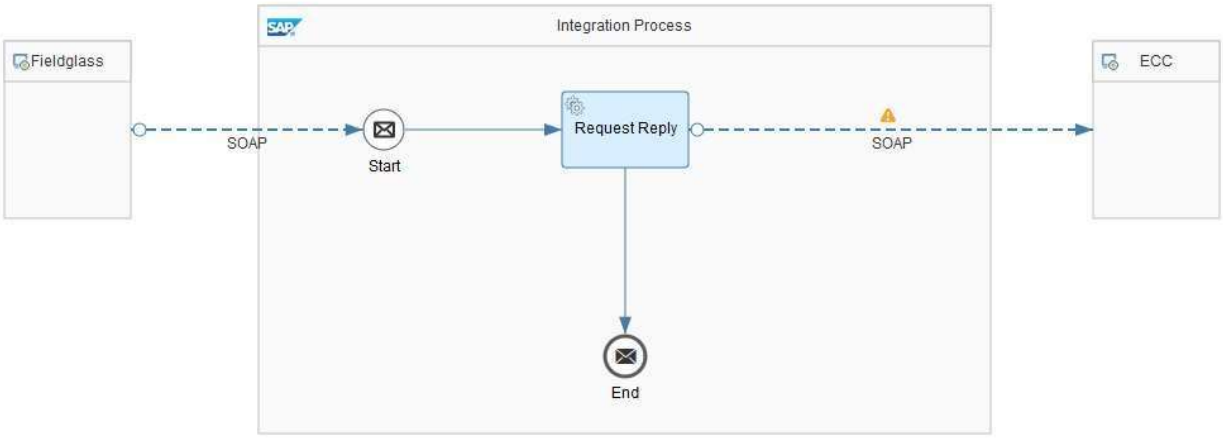

Figure 3: Integration Flow

SAP Fieldglass pushes payloads for Web Service "/ASADEV/ACI_WS_SEND" via SAP Cloud Integration into the connected SAP ECC system. A service provider and service binding must exist in the Receiver System. The Service Provider is delivered with the product Asapio Cloud Integrator in combination with the Fieldglass toolkit. It's a synchronous call that sends direct response to the Sender.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:sap-com:document:sap:rfc:functions">
   <soapenv:Header/>
   <soapenv:Body>
      <urn:SEND>
         <CLOUD_INSTANCE>FG_INBOUND_WS</CLOUD_INSTANCE>
         <CONTENT>PHVybjpFeHRlcm5hbFJlcUZvckFwcHJvdmFsSW1wb3J0UmVxdWVzdCBwYXJ0aXRpb249IiIgdmFyaWFudD0iIiB4bWxuczp1cm49InVybjpBcmliYTp
          =</CONTENT>
         <SEND_EVENT>PR_UPDATE</SEND_EVENT>
         <SEND_ID>z17051015492154896424933</SEND_ID>
         <TARGET_SYSTEM>?</TARGET_SYSTEM>
      </urn:SEND>
   </soapenv:Body>
</soapenv:Envelope>
```

Figure 4: Example Payload

1.3. SAPECC_FG_CONNECTORN

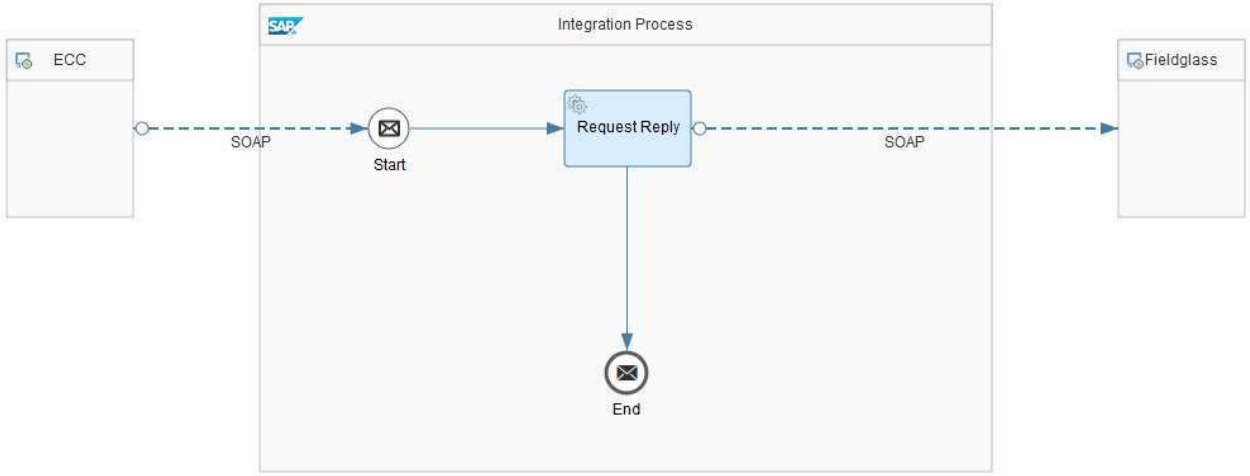

Figure 5: Integration Flow

SAP ECC sends transactional data (creation of Fieldglass documents, Updates to Fieldglass documents, Custom Fields, …) via SAP Cloud Integration to SAP Fieldglass utilizing ConnectorN Web Service. Sender must have a service

consumer of ConnectorN and a logical proxy port configured. It's a synchronous call that sends direct response to the Sender.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ins="insite:soapws:connectorn:v1">
   <soap:Header/>
   <soap:Body>
      <nm:dataTransferRequestType xmlns:nm="insite:soapws:connectorn:v1" xmlns:prx="urn:sap.com:proxy:ERD:/1SAI/TAS2DEEFA794E0F174303A6:731">
         <ne:login xmlns:ne="insite:soapws:connectorn:v1">
            <username>XXXX@fg_help</username>
            <password>****************</password>
         </ne:login>
         <connector>Upload Cost Centers</connector>
         <ne:upload n0:dataFormat="csvCommaSeparated" n0:dataEncoding="UTF-8" xmlns:ne="insite:soapws:connectorn:v1" xmlns:n0="insite:soapws:connectorn:v1">
            <ne:data>
               <dataText>Type=Upload Custom Fields Update,,,,,,,,,,,,,,,,,,
                         Transaction=True,,,,,,,,,,,,,,,,,,
                         Send Notification?=True,,,,,,,,,,,,,,,,,,
                         Language=English (United States),,,,,,,,,,,,,,,,,,
                         Number Format=#,##9.99 (Example: 1,234,567.99),,,,,,,,,,,,,,,,,,
                         Comments=,,,,,,,,,,,,,,,,,,

                         Header1,Header2,Header3
                         "Value1","Value2","Value3"</dataText>
            </ne:data>
         </ne:upload>
      </nm:dataTransferRequestType>
   </soap:Body>
</soap:Envelope>
```

Figure 6: Example Payload

1.4. SAPECC_FG_CONNECTORV2

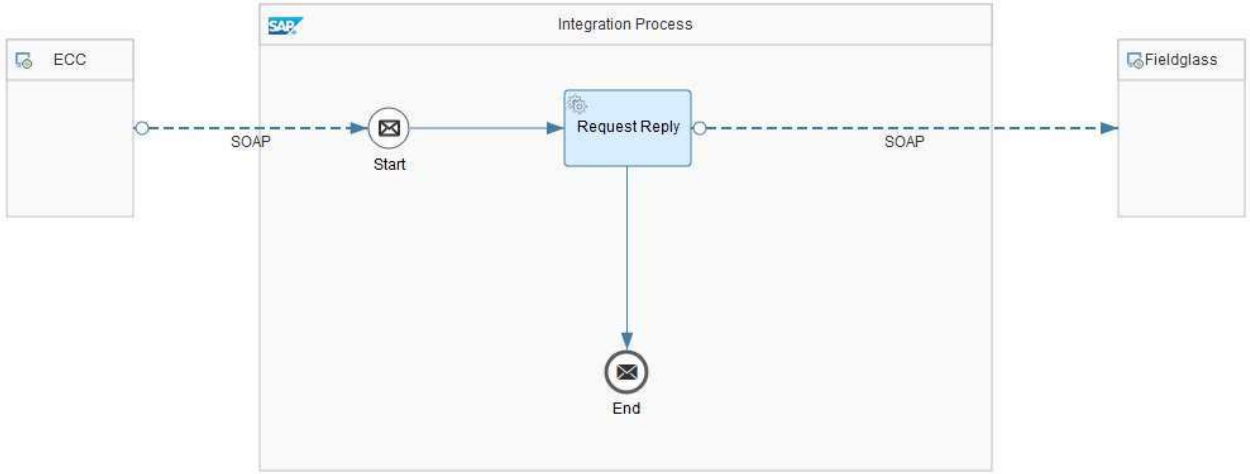

Figure 7: Integration Flow

SAP ECC sends transactional data (creation of Fieldglass documents, Updates to Fieldglass documents, Custom Fields, …) via SAP Cloud Integration to SAP Fieldglass utilizing ConnectorV2 Web Service. Sender must have a service consumer of ConnectorV2 and a logical proxy port configured. It's a synchronous call that sends direct response to the Sender.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservice2.partner.insite">
   <soapenv:Header/>
   <soapenv:Body>
      <web:upload>
         <!--Optional:-->
         <web:username>XXXX@fg_help</web:username>
         <!--Optional:-->
         <web:password>********************</web:password>
         <!--Optional:-->
         <web:data>Type=Upload Custom Fields Update,,,,,,,,,,,,,,,,,,
                   Transaction=True,,,,,,,,,,,,,,,,,,
                   Send Notification?=True,,,,,,,,,,,,,,,,,,
                   Language=English (United States),,,,,,,,,,,,,,,,,,
                   Number Format=#,##9.99 (Example: 1,234,567.99),,,,,,,,,,,,,,,,,,
                   Comments=,,,,,,,,,,,,,,,,,,

                   Header1,Header2,Header3
                   "Value1","Value2","Value3"
         </web:data>
      </web:upload>
   </soapenv:Body>
</soapenv:Envelope>
```

Figure 8: Example Payload

2 INTEGRATION PROCEDURE

This chapter shortly describes the steps to connect Sender system with the SAP Cloud Integration and how to configure the iFlow.

2.1. SAP Cloud Integration - How to configure the iFlows

2.1.1. FG_SAPECC_POCLOSURE

Step-by-step Instructions

Step 1: Download the .zip-file. It comprises the package for the IFlow.

Step 2: Import the package to your SAP Cloud Integration tenant and open the IFlow FG_SAPECC_POCLOSURE under the
Artifacts tab.

Step 3: Click Configure on the right upper corner:
A screen with a Receiver tab will appear as shown in Figure 9.

Step 4: Enter the relevant information in the tab Receiver:

Address:	Enter the URL of the Proxy Endpoint in the Receiver system
Credential Name	Enter the Credential you defined in SAP Cloud Integration to authenticate in Receiver System

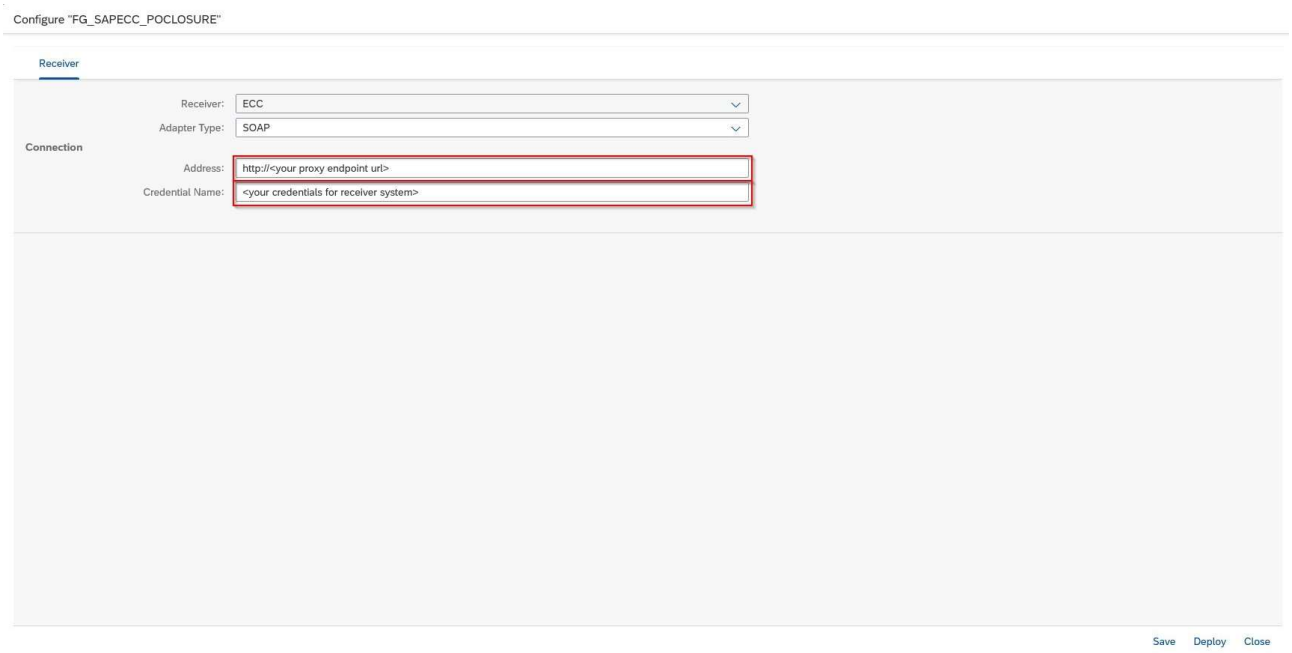

Figure 9: Configure Receiver

Step 5: Save

Step 6: Deploy

2.1.2. FG_SAPECC_PUSH

Step-by-step Instructions

Step 1: Download the .zip-file. It comprises the package for the IFlow.

Step 2: Import the package to your SAP Cloud Integration tenant and open the IFlow FG_SAPECC_POCLOSURE under the
Artifacts tab.

Step 3: Click Configure on the right upper corner:
A screen with a Receiver tab will appear as shown in Figure 9.

Step 4: Enter the relevant information in the tab Receiver:

Address:	Enter the URL of the Proxy Endpoint in the Receiver system
Credential Name	Enter the Credential you defined in SAP Cloud Integration to authenticate in Receiver System

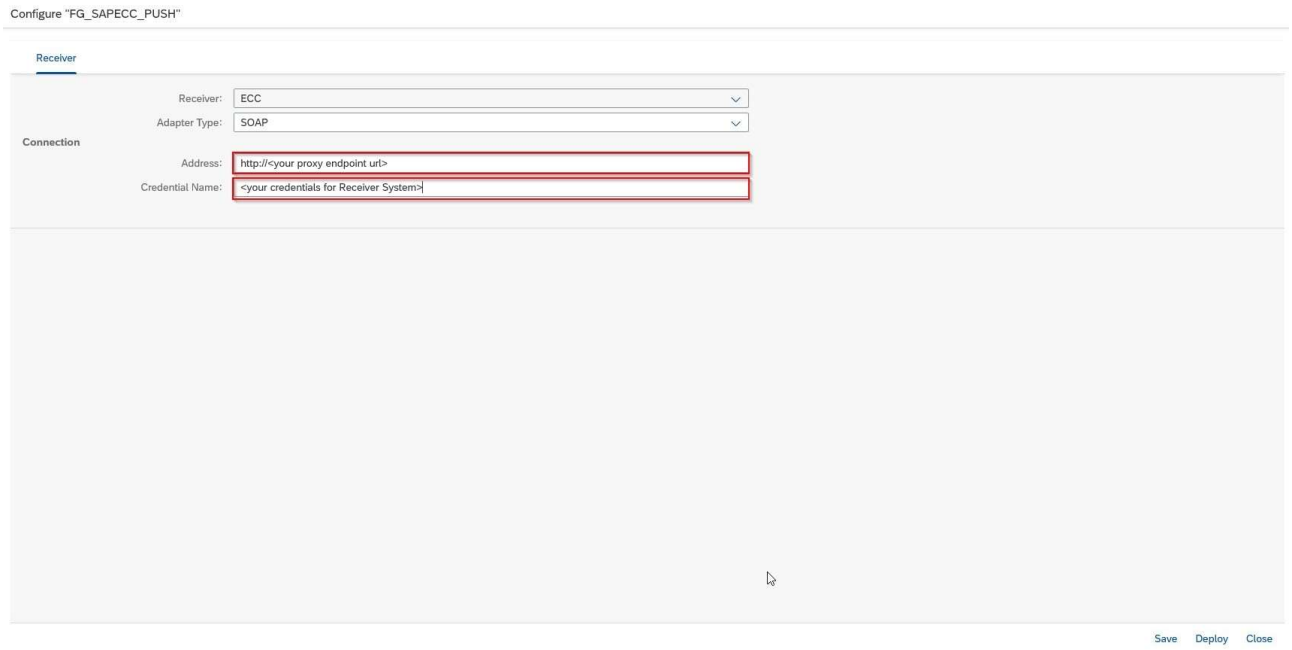

Figure 10: Configure Receiver

Step 5: Save

Step 6: Deploy

2.1.3. SAPECC_FG_CONNECTORN

Step-by-step Instructions

Step 1: Download the .zip-file. It comprises the package for the IFlow.

Step 2: Import the package to your SAP Cloud Integration tenant and open the IFlow FG_SAPECC_POCLOSURE under the
Artifacts tab.

Step 3: Click Configure on the right upper corner:
A screen with a Receiver tab will appear as shown in Figure 9.

Step 4: Enter the relevant information in the tab Receiver:

Address: Enter the URL of the Proxy Endpoint in the Receiver system

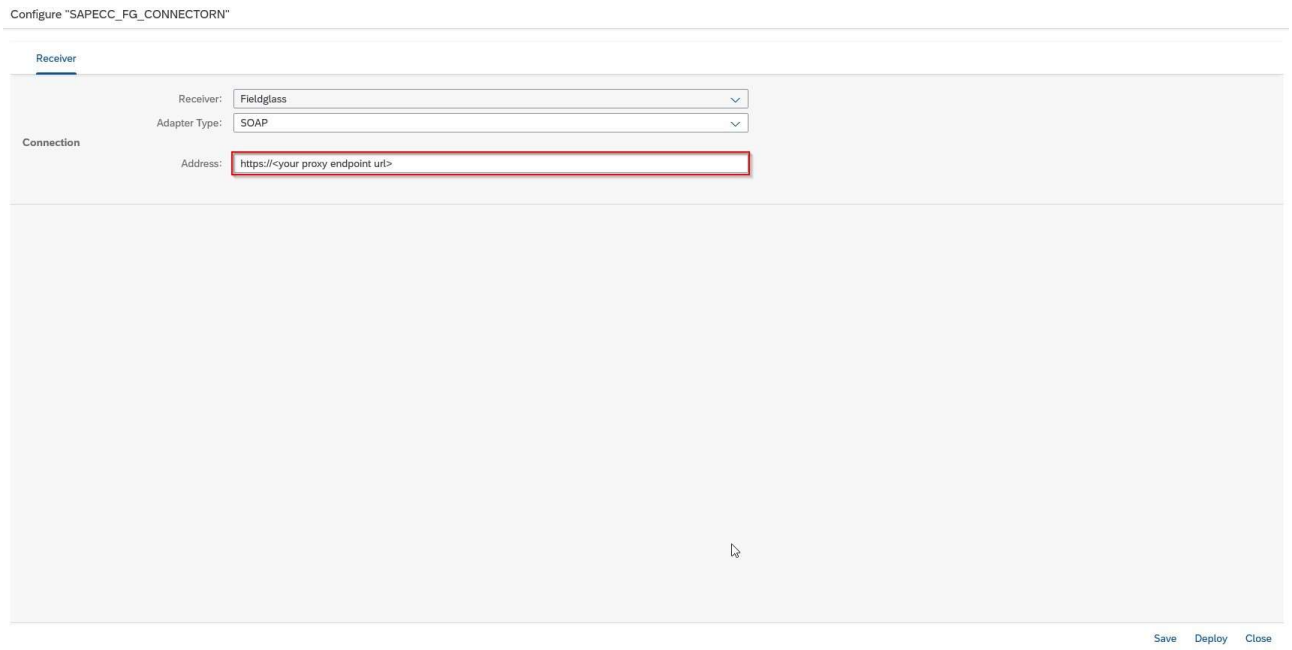

Figure 11: Configure Receiver

Step 5: Save

Step 6: Deploy

2.1.4. SAPECC_FG_CONNECTORV2

Step-by-step Instructions

Step 1: Download the .zip-file. It comprises the package for the IFlow.

Step 2: Import the package to your SAP Cloud Integration tenant and open the IFlow FG_SAPECC_POCLOSURE under the
Artifacts tab.

Step 3: Click Configure on the right upper corner:
A screen with a Receiver tab will appear as shown in Figure 9.

Step 4: Enter the relevant information in the tab Receiver:

Address: Enter the URL of the Proxy Endpoint in the Receiver system

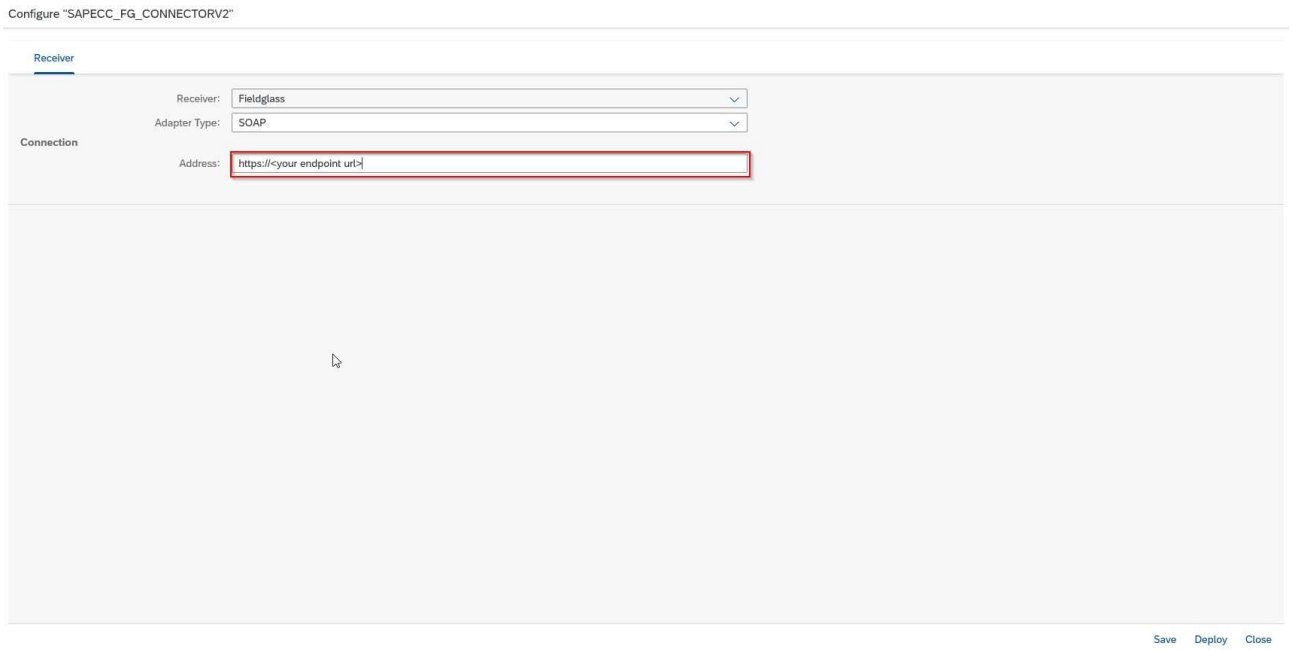

Figure 12: Configure Receiver

Step 5: Save

Step 6: Deploy

2.2. Externalized Parameters

This part will give you an explanation of the externalized parameters:

Receiver	
Adapter Type	Only SOAP applicable
Address	Enter the endpoint URL of the Web Service at the Receiver System
Credential Name	Reference the credentials you already created in SAP Cloud Integration to authenticate in Receiver System

2.3. Configuration in the Sender System

2.3.1. FG_SAPECC_POCLOSURE

Please contact your SAP Fieldglass Integration Consultant to configure the endpoint for the iFlow and enable the event trigger for closures of SOWs and WOs.

2.3.2. FG_SAPECC_PUSH

Please contact your SAP Fieldglass Integration Consultant to configure the endpoint for the iFlow and enable the event trigger to push SOWs and SOW Revisions.

2.3.3. SAPECC_FG_CONNECTORN

Configure a logical proxy port in the SOAMANAGER of your Sender System.

Figure 13: Configure Sender logical Proxy Port - Authentication

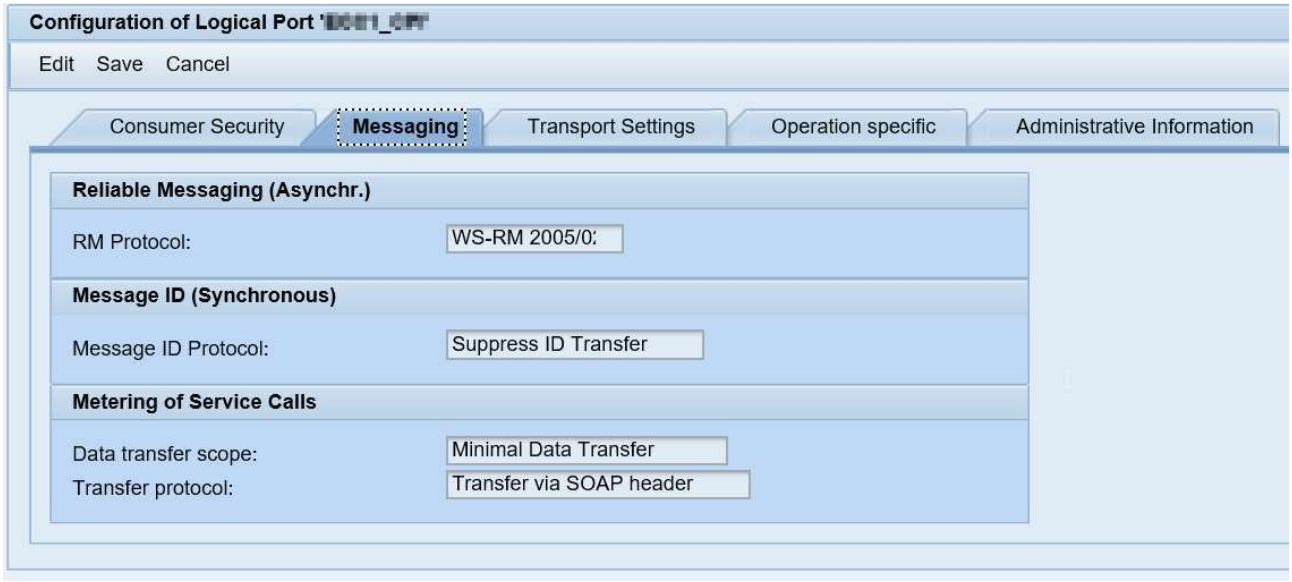

Figure 14: Configure Sender logical Proxy Port - Messaging

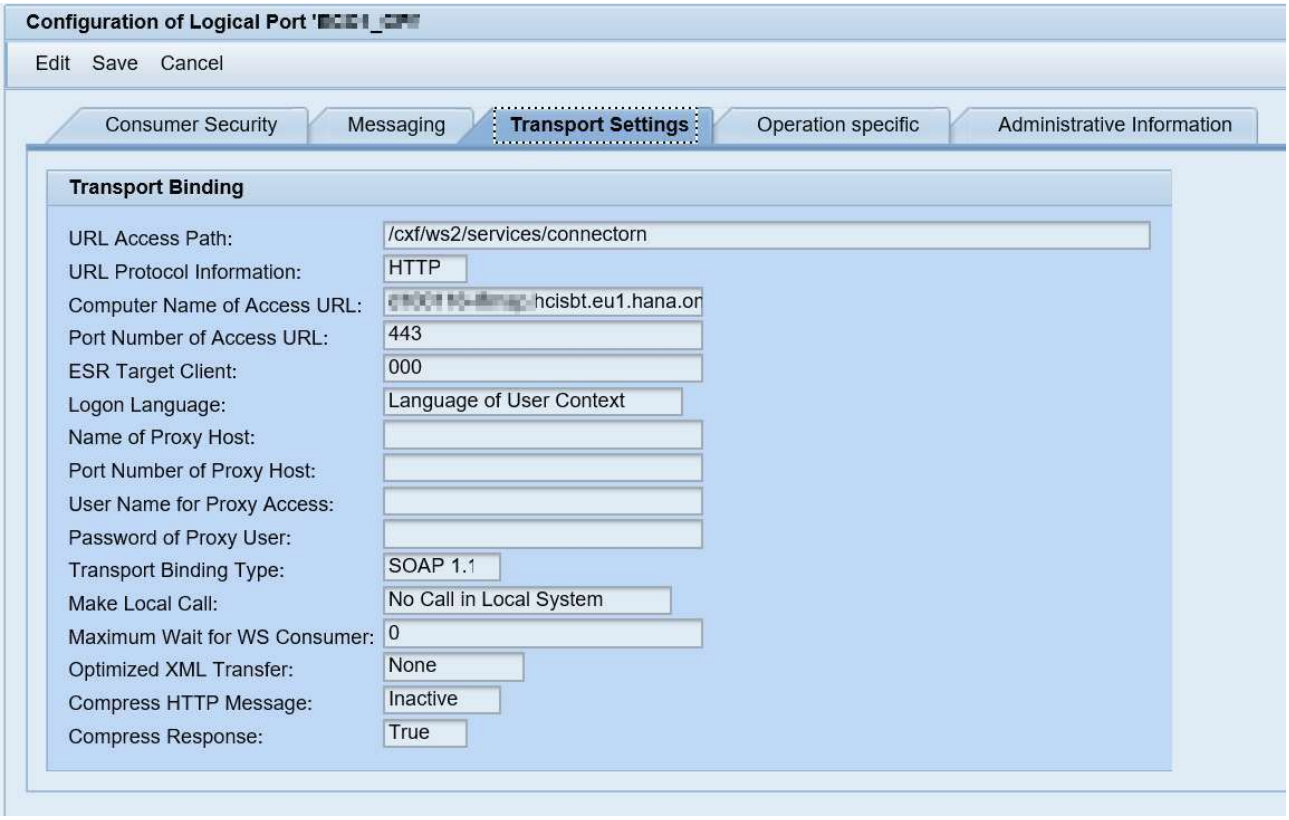

Figure 15: Configure Sender logical Proxy Port – Transport Settings

2.3.4. SAPECC_FG_CONNECTORV2

Configure a logical proxy port in the SOAMANAGER of your Sender System.

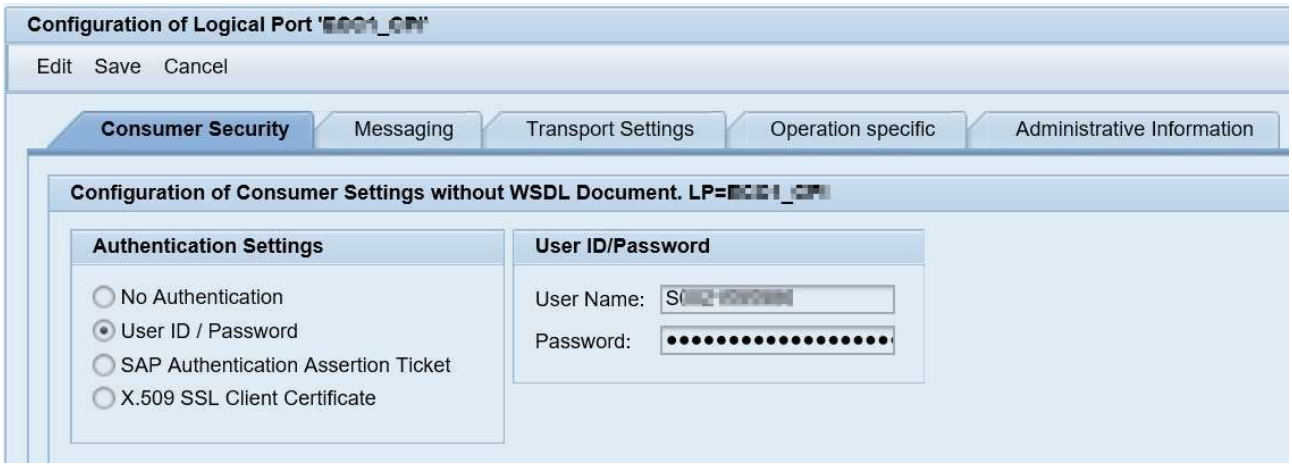

Figure 16: Configure Sender logical Proxy Port - Authentication

Figure 17: Configure Sender logical Proxy Port - Messaging

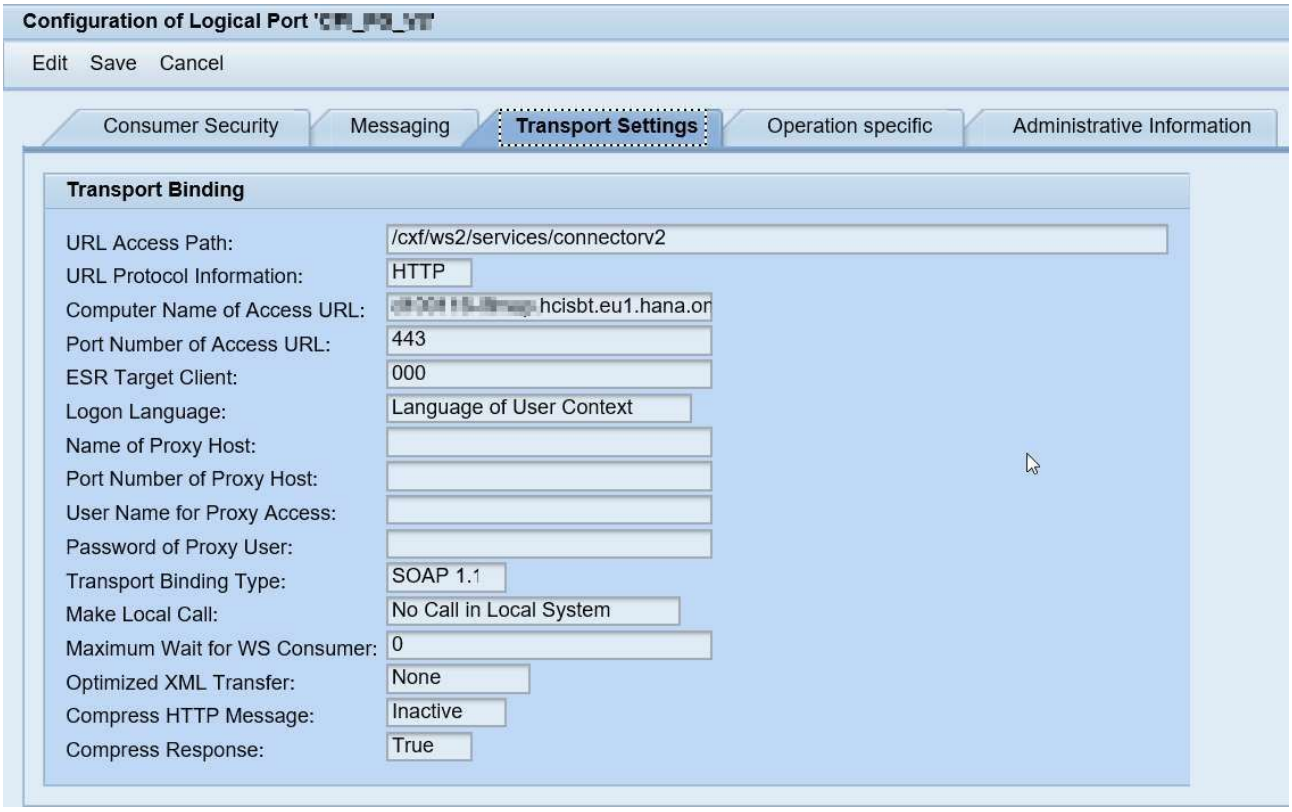

Figure 18: Configure Sender logical Proxy Port – Transport Settings