Integration Guide | PUBLIC
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Egypt Electronic Invoicing: Setting Up SAP Cloud Integration (SAP ERP, SAP S/4HANA) - Neo Environment

THE BEST RUN SAP

Content

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2 Introduction

You use SAP Cloud Integration to establish the communication with external systems with whom you want to exchange electronic documents created with *SAP Document and Reporting Compliance*. This document lists the required setup steps you perform in the SAP ERP or SAP S/4HANA system* and the SAP Cloud Integration tenant so that the integration between the systems works.

The setup steps are typically done by an SAP Cloud Integration consulting team, which is responsible for configuring the SAP back-end systems and the connection with SAP Cloud Integration. This team may be also responsible for maintaining the integration content and certificates/credentials on the SAP Cloud Integration tenant.

> **i Note**
>
> This document describes functionality that is provided by the Integration Package itself, that is, by the artifacts that are deployed in the SAP Integration Suite tenant. It may happen, however, that in the SAP back-end systems the access to such functionality is only partially implemented. Additionally, it may also happen that the tax authority servers do not provide all services that are described in this document. Please refer to SAP back-end systems documentation and to the relevant tax authority information, respectively.

For the sake of simplicity in this guide, we mention SAP back-end systems when something refers to both SAP ERP or SAP S/4HANA.

3 Prerequisites

Before you start with the activities described in this document, ensure that the following prerequisites are met.

1. Document and Reporting Compliance: All relevant notes are installed in the test and/or productive systems.
2. SAP Cloud Integration test/productive tenants are live.
3. You have configured the connection from SAP back-end system to SAP Cloud Integration.

3.1 Implementation for Electronic Document Processing Framework

You have implemented and configured the Electronic Document Processing Framework in your test and productive systems. If you did not install the latest support package for your system, refer to the SAP Note 2134248 for the implementation guide of SAP Notes.

Application Help for Electronic Document Processing

For more information about features and country/region availability of each solution, see the application help documentation

- SAP S/4HANA: *Product Assitance* > *English* > *Local Version* > *<Region>* > *<Country/Region>* > *Cross-Application Functions* > *Document and Reporting Compliance*.
- SAP ERP: *Application Help* > *SAP Library* > *Local Version* > *<Region>* > *<Country/Region>* > *Cross-Application Functions* > *Document and Reporting Compliance*.

4 Connectivity Steps

4.1 Setup of Secure Connection

You establish a trustworthy SSL connection to set up a connection between the SAP back-end systems and the SAP Cloud Integration.

Outbound HTTP connections are required, and are supported with specific, public certificates.

You use SAP ERP Trust Manager (transaction `STRUST`) to manage the certificates required for a trustworthy SSL connection. The certificates include public certificates to support outbound connections, as well as trusted certificate authority (CA) certificates to support integration flow authentication.

Refer to the system documentation for more information regarding the certificate deployment to SAP back-end systems. If there are issues, refer to the following SAP Notes:

- 2368112 Outgoing HTTPS connection does not work in AS ABAP
- 510007 Setting up SSL on Application Server ABAP

For more information, refer to Operations guide for SAP Cloud Integration.

> **i Note**
>
> If you encounter any issues in the information provided in the SAP Cloud Integration product page, open a customer incident against the `LOD-HCI-PI-OPS` component.

Client Certificate

If you're using a client certificate, this must be signed by one of the root certificates supported by the load balancer. A self-signed certificate isn't suitable. For more information, see Load Balancer Root Certificates Supported by SAP.

4.1.1 Setup of SAP Cloud Integration Tenants

Ensure that your SAP Cloud Integration test and production tenants are live, and users in the tenants have the rights to copy the integration package and to configure and deploy the integration flows (iFlows).

When your tenants are provisioned, you receive an email with a Tenant Management (TMN) URL. You need this URL when configuring on your SAP ERP or SAP S/4HANA on-premise system the communication with the SAP Cloud Integration tenant.

To be able to deploy the security content you must be assigned the `AuthGroup.Administrator` role.

If you are a first-time user, you must first set up your users (members) and their authorizations in the SAP Cloud Integration cockpit.

4.1.2 Retrieve and Save Public Certificates

You perform this action in the back-end systems only if you are using certificate-based authentication. Not required for basic authentication.

Prerequisites

If you do not find any integration flows in your tenant then refer to Copy Integration Flows [page 15] and Configuring Integration Flows [page 16].

Context

Find and save the public certificates from your SAP Cloud Integration runtime.

Procedure

1. Access the SAP BTP cockpit, and navigate to your subaccount (tenant) page.
2. Click the subscriptions link to display the subscriptions for your subaccount.
3. Select the subscription with suffix **`iflmap`** as this corresponds to your worker node within SAP Cloud Integration.

   Alternatively, use the URL emailed to you with your SAP Cloud Integration subscription details. The URL has the following format **`https://xxxxx.hana.ondemand.com/itspaces`**.
4. In the *Operations* view, choose *Manage Integration Content* and select *All* to display the integration flows available.
5. Select an integration flow to display its details.

6. Copy the URL listed within the *Endpoints* tab, and paste the URL into your web browser.
7. When prompted by the *Website Identification* window, choose *View certificate*.
8. Select the root certificate, and then choose *Export to file* to save the certificate locally.
9. Repeat these steps for each unique root, intermediate and leaf certificate, and repeat for both your test and production tenants.

4.1.3 Upload the Certificates

Store the public certificates used for your productive and test tenants.

Context

You use the SAP ERP Trust Manager (transaction STRUST) to store and manage the certificates required to support connectivity between SAP back-end systems and SAP Cloud Integration.

Procedure

1. Access transaction STRUST.
2. Navigate to the PSE for **SSL Client (Anonymous)** and open it by double-clicking the PSE.
3. Switch to edit mode.
4. Choose the *Import certificate* button.
5. In the *Import Certificate* dialog box, enter or select the path to the required certificates and choose *Enter*. The certificates are displayed in the *Certificate* area.
6. Choose *Add to Certificate List* to add the certificates to the *Certificate List*.
7. Save your entries.

4.1.4 Authenticate Integration Flows

Create an own certificate and get it signed by a trusted certificate authority (CA) to support integration flow authentication.

Context

You use the SAP ERP Trust Manager (transaction STRUST) for this purpose.

This process is required only if you use certificate-based authentication (that is, you choose the **`X.509 SSL Client Certification`** option in your settings for SOAMANAGER).

Procedure

1. Access transaction `STRUST`.
2. Create your own PSE (for example, Client SSL Standard) and then generate a certificate sign request.
3. Export the certificate sign request as a `*.csr` file.
4. Arrange for the certificate to be signed by a trusted certificate authority (CA).

   If you are using a client certificate, this must be signed by one of the root certificates supported by the load balancer. A self-signed certificate is not suitable. For more information, see Load Balancer Root Certificates Supported by SAP.

   The CA may have specific requirements and request company-specific data, they may also require time to analyze your company before issuing a signed certicate. When signed, the CA provides the certificate for import.
5. Navigate to the PSE for **SSL Client Standard** and open it by double-clicking the PSE.
6. Switch to edit mode.
7. Choose the *Import certificate* button.
8. In the *Import Certificate* dialog box, enter or select the path to the CA-signed certificate and choose *Enter*. The certificate is displayed in the *Certificate* area.
9. Choose *Add to Certificate List* to add the signed certificate to the *Certificate List*.

   Ensure that you import the CA root and intermediate certificates to complete the import.
10. Save your entries.

    The certificates can now be used in the SOA Manager (transaction `SOAMANAGER`).

5 Configuration Steps

5.1 General Information

The package *SAP Document and Reporting Compliance: Electronic Invoice for Egypt* contains the following integration flows:

Egypt e-Invoicing Integration Flows

Integration Flow Name in WebUI	Project Name/Artifact Name
Egypt Submit Document	com.sap.GS.Egypt.SubmitDocument
Egypt Document Cancellation or Rejection	com.sap.GS.Egypt.CancelReject
Egypt Get Recent Documents	com.sap.GS.Egypt.GetRecentDocuments
Egypt Get Document Details	com.sap.GS.Egypt.GetDocDetails
Egypt Get Document PDF	com.sap.GS.Egypt.GetDocPDF
Egypt Decline Document Cancellation or Rejection	com.sap.GS.Egypt.Decline
Egypt Search Documents	com.sap.GS.Egypt.SearchDocuments
Egypt Trust Digital Signature Integration	com.sap.GS.Egypt.EgyptTrustDigitalSignatureIntegration

> **i Note**
>
> The *Egypt Get Recent Documents* integration flow is obsolete.

Document Notification Integration Flows

Integration Flow Name in WebUI	Project Name/Artifact Name
Egypt ERP Ping	com.sap.GS.Egypt.ERPPing
Egypt ERP Notification	com.sap.GS.Egypt.ERPNotifications

> **i Note**
>
> The integration flows *Egypt ERP Ping* and *Egypt ERP Notification* are supported only for S/4HANA versions 2021 onwards.

5.2 Deploy Credentials to Tenants

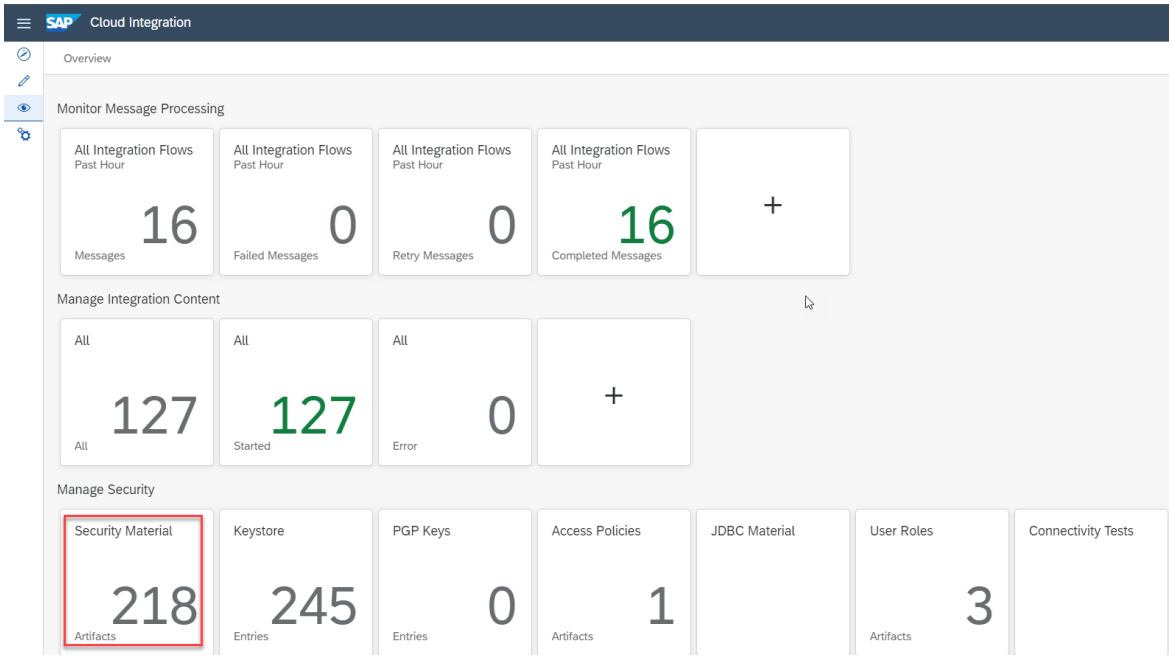
To establish a connection between the SAP Cloud Integration and tax authority servers, you must obtain several security materials, and then add these to the SAP Cloud Integration tenant.

5.2.1 Add Credentials for Authenticating Signature Device

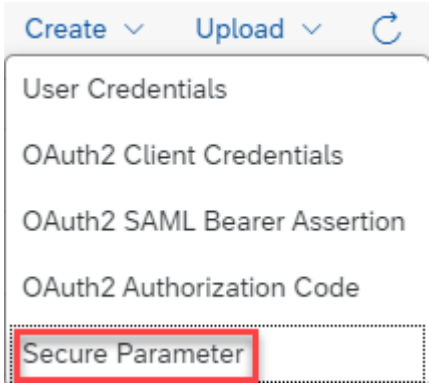
SAP Cloud Integration uses a *Secure Parameter* to authenticate the communication with Signing device/server. For the Egypt eInvoice scenario, you must include credentials that are recognized by the eSeal provider like eTrust. A *Secure Parameter* is used to specific if a technical user is registered with a signing device/server.

If you use the Egypt Trust Signing Server then you can follow the steps in this section to deploy the Name and Secure Parameter to your SAP Cloud Integration tenant.

1. In your browser, go to the *Overview* tab and choose *Security Material*.



2. Choose *Create* on the right corner and choose *Secure Parameter*.



3. Enter the name, description and secure parameter, and deploy them.

You need to add Secure Parameter as follows:

- Name: The required format for the *Name* is "edoc_egypt_<type>_<taxpayerid>" (For example, edoc_egypt_secretkey_123456789).

  > **i Note**
  >
  > Here the <type> can be:
  > - pin
  > - thumbprint
  > - secretkey
  > - signingServer
  >
  > The *Name* is case sensitive.

- Description: 'Egypt Security Material Type'
- Secure Parameter: The value of the pin, thumb print, secret key and signing server should be entered for the *Secure Parameter*.

  > **i Note**
  >
  > For the Signing Server security material the Secure Parameter is in the form of a URL. The required format of the URL is "<protocol>//<IP Address>:Port" (For example, Http://1.2.3.4:9999).

- Repeat Secure Parameter: Re-enter the value of the *Secure Parameter*.

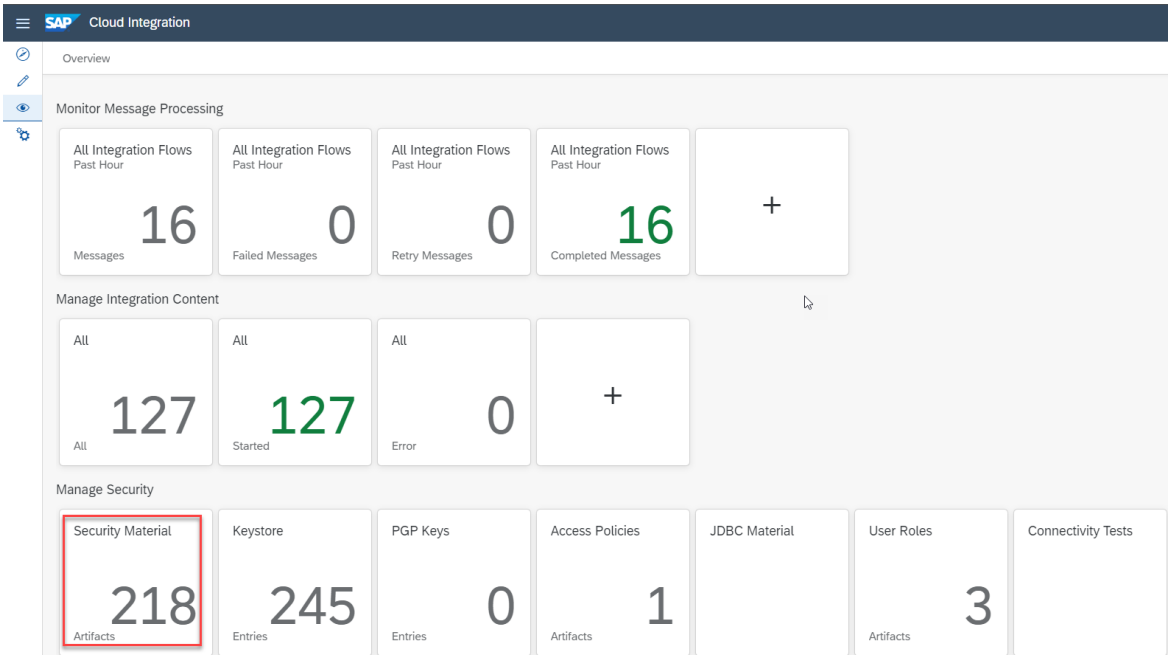
5.2.2 Add Credentials for Authenticating Tenant at Tax Authority

SAP Cloud Integration uses a *OAuth2 Credential* to authenticate the communication with tax authority's system. For the Egypt eInvoice scenario, you must include credentials that are recognized by the tax authority (Egyptian Tax Authority, ETA). A *OAuth2 Credential* is specific to a technical user registered in the Online Invoicing System of the tax authority.

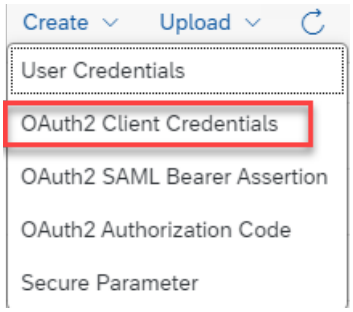
You need to add and deploy your *OAuth2 credentials* as Client Credentials in the Security Material section of your SAP Cloud Integration tenant.

The user needs to add and deploy their credentials in the Test and Production systems based on the Tenants.

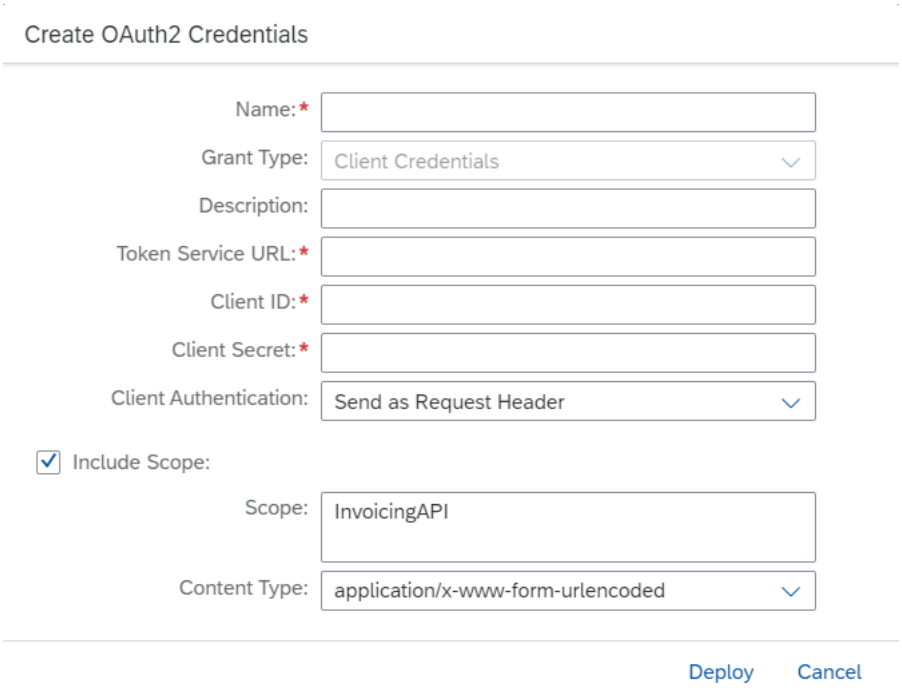
1. In your browser, go to the *Overview* tab and choose *Security Material*.



2. Choose *Create* on the right corner and choose *Secure Parameter*.



3. Enter the name, description and secure parameter, and deploy them.



You need to add the Client Credentials as follows:

- Name: The required format for the *Name* is "edoc_egypt_eta_<mode>_<taxpayerid>" (For example, edoc_egypt_eta_prod_123456789).

  > **Note**
  >
  > Here the <mode> can be:
  > - test
  > - prod
  >
  > The *Name* is case sensitive.

- Token Service URL: To get the access token there are two types of service URLs based on the mode:
  - Test: https://id.preprod.eta.gov.eg/connect/token
  - Prod: https://id.eta.gov.eg/connect/token
- Client ID: Enter the *Client ID* received after registration with ETA.
- Client Secret: Enter the *Client Secret* received after registration with ETA.
- Scope: Enter the value "InvoicingAPI" for the *Scope*.

  > **Note**
  >
  > Select the *Include Scope* check box in order to enter the *Scope* and *Content Type*.

- Content Type: Select the value "application/x-www-form-urlencoded" for the *Content Type*.

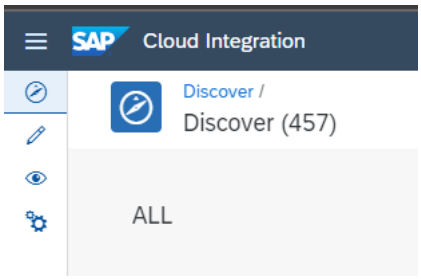
5.3 Copy Integration Flows

Context

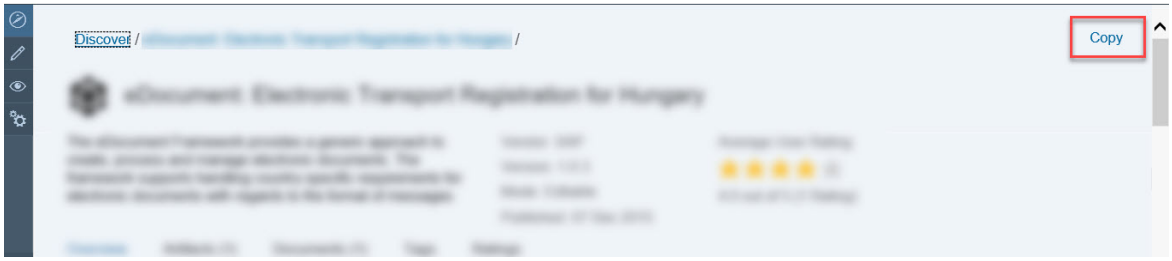
Copy all integration flows in the package *SAP Document and Reporting Compliance: Electronic Invoice for Egypt* to the target tenant as follows:

Procedure

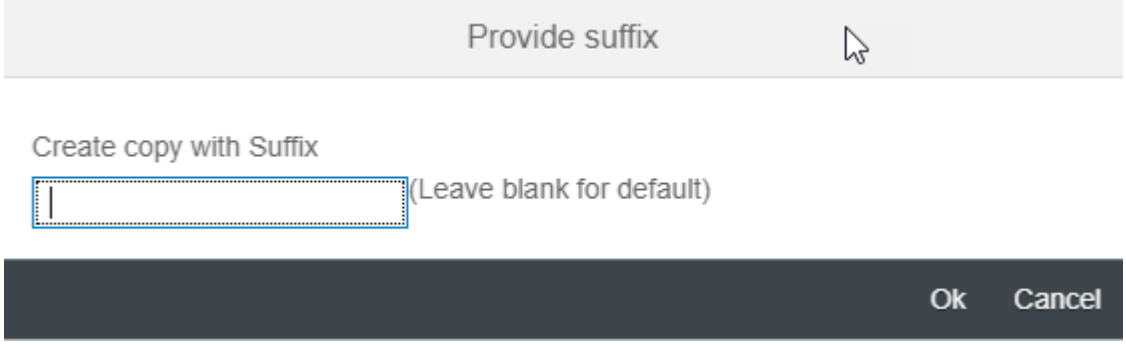
1. In your browser, go to the WebUI of the tenant (URL: <Tenant URL>/itspaces/#shell/catalog).
2. Choose *Discover* > *All*.



3. Search for *SAP Document and Reporting Compliance: Electronic Invoice for Egypt*.
4. Select the Package and choose *Copy*.



5. In the *Provide suffix* dialog box, leave the field blank, and choose *Ok*.



5.4 Configuring Integration Flows

Context

You configure the package that you've copied as described in *Copy Integration Flows*.

Procedure

1. Choose *Design* from the upper left corner of the page.
2. Click on the package that you copied from the original *SAP Document and Reporting Compliance: Electronic Invoice for Egypt* package.
3. Go to the *Artifacts* tab page.
4. There are nine *Artifacts* in the integration package *SAP Document and Reporting Compliance: Electronic Invoice for Egypt*:
   - Egypt Submit Document
   - Egypt Document Cancellation or Rejection
   - Egypt Get Recent Documents
   - Egypt Get Document Details
   - Egypt Get Document PDF
   - Egypt Decline Document Cancellation or Rejection
   - Egypt Search Documents
   - Egypt Trust Digital Signature Integration
   - Egypt ERP Notification
   - Egypt ERP Ping

   > **i Note**
   >
   > The *Egypt Get Recent Documents* integration flow is obsolete.

   Please follow the steps in the below sections to configure your integration flows.

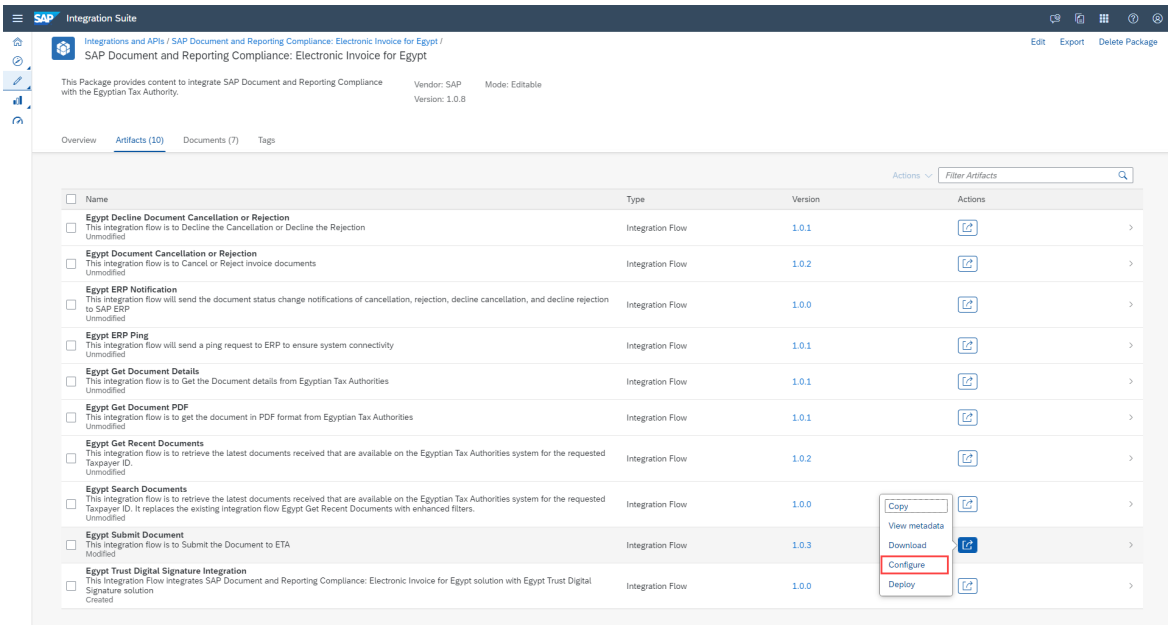
5.4.1 Configuring Egyptian Tax Authority's Integration Flows

Context

Take *Egypt Submit Document* as an example, similar steps should be done for the other integration flows.

Procedure

1. Choose *Actions* > *Configure* for the artifact you're configuring.



2. Choose *Configure* > *More* tab (in some versions it may be *Externalized Parameters*).

> ### Note
>
> `Signing_Server_Process_Address` parameter is only valid for *Egypt Submit Document* integration flow. For more information on what value you need to enter for this parameter, please refer to Integration with Signing Server [page 19].

> ### Note
>
> When you configure the *Mode* as "TEST" or "PROD" the "TEST" or "PROD" APIs will be triggered along with the "TEST" or "PROD" credentials.

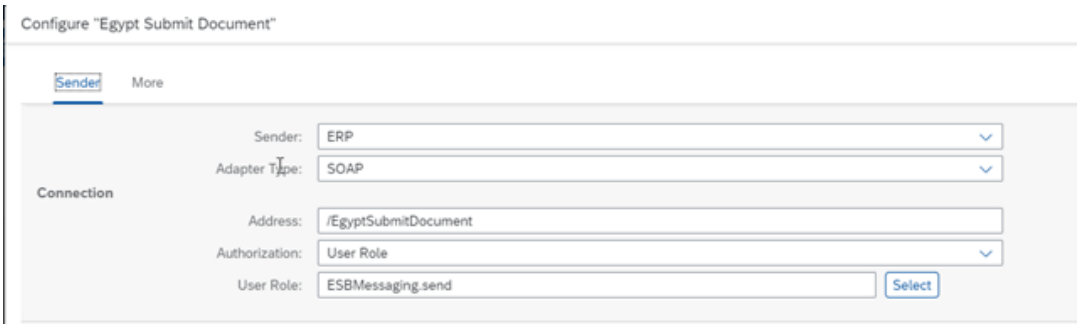
There are specific URLs you need to enter for different integration flows.

Parameter Name	URL
RECEIVER_PROD_URL	`https://api.invoicing.eta.gov.eg`
RECEIVER_TEST_URL	`https://api.preprod.invoicing.eta.gov.eg`

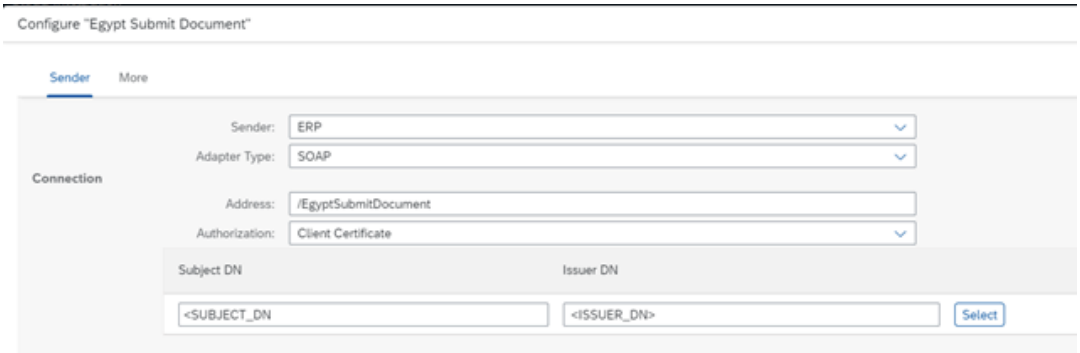
3. Choose *Configure* > *Sender* tab.
   - Use the `Address` parameter to set up the integration package address. Normally you don't have to change this field. In case you change the field, make sure to use the same address when configuring the logical ports in the next chapter.
   - Use the `Authorization` parameter to configure the authorization type.

Value	Description
User Role	You want to use basic authentication (user/password).
Client Certificate	You want to use client certificate authentication.

     - Use the `User Role` parameter to configure the role based on which the inbound authorization is checked. Choose *Select* to get a list of all available roles.
       The role `ESBMessaging.send` is provided by default.

     - Use the `Subject DN` and `Issuer DN` parameters to configure the Certificate based on which inbound authorization is checked. Choose *Select* and upload the required Certificate from your local machine.

4. Choose *Save* and *Deploy* to deploy it actively to server. Note down the URLs of the endpoints for each service.

> **Note**
>
> Depending on the version of your tenant, after pressing these buttons, a warning message can appear.

5.4.2 Integration with Signing Server

The standard package contains the *Egypt Trust Digital Signature Integration* integration flow by default to integrate the *Egypt Submit Document* integration flow with the Egypt Trust Digital Signature solution. You can create your own integration flow in the standard package based on the Signing Server you are using.

The *Egypt Submit Document* integration flow provides the externalized parameter `Signing_Server_Process_Address` to enter the address of customer developed integration flow, which is used to integrate with the preferred Digital Signature solution.

The *Egypt Submit Document* integration flow will send the JSON version of the electronic invoice to the customer developed integration flow via ProcessDirect receiver adaptor.

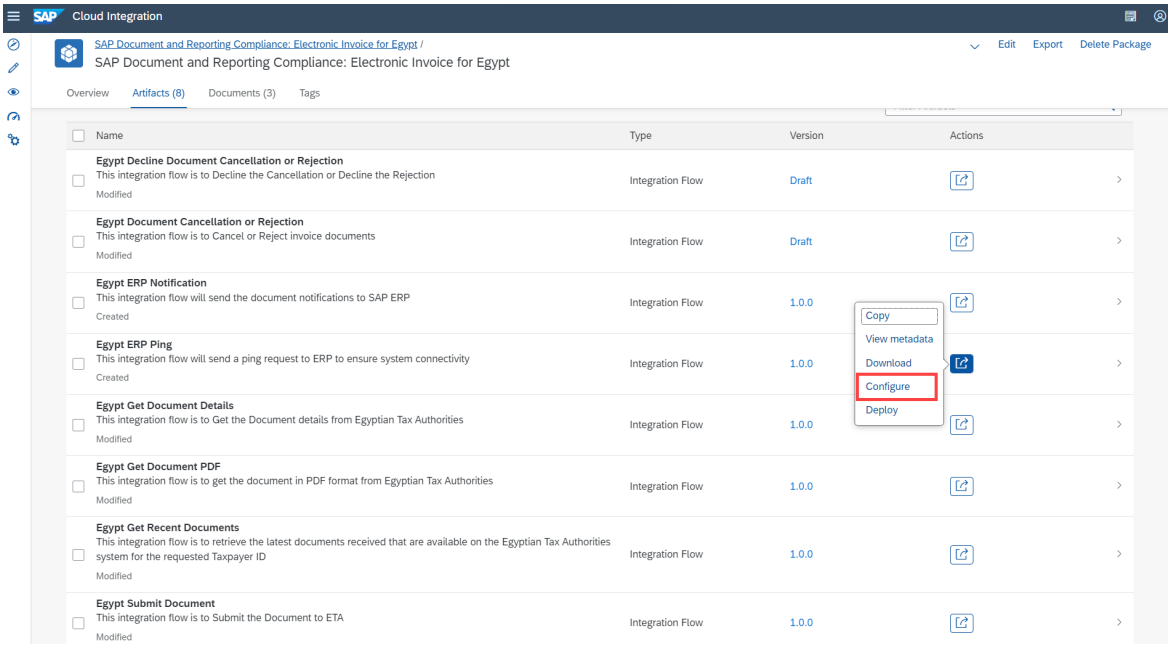
The customer developed integration flow is expected to receive the request from *Egypt Submit Document* via ProcessDirect sender adaptor and send back a response with the message body containing only the Digital Signature in Base64 format.

5.4.3 Configuring Egypt ERP Ping Integration Flow

Provides instructions for configuring integration flow for Egypt ERP Ping.

Procedure

1. Choose *Actions* > *Configure* for the artifact you're configuring.



2. Choose *Configure* > *More* tab (in some versions it may be *Externalized Parameters*).

> ## i Note
>
> When you configure the *Mode* as "TEST" or "PROD" the "TEST" or "PROD" APIs will be triggered along with the "TEST" or "PROD" credentials.

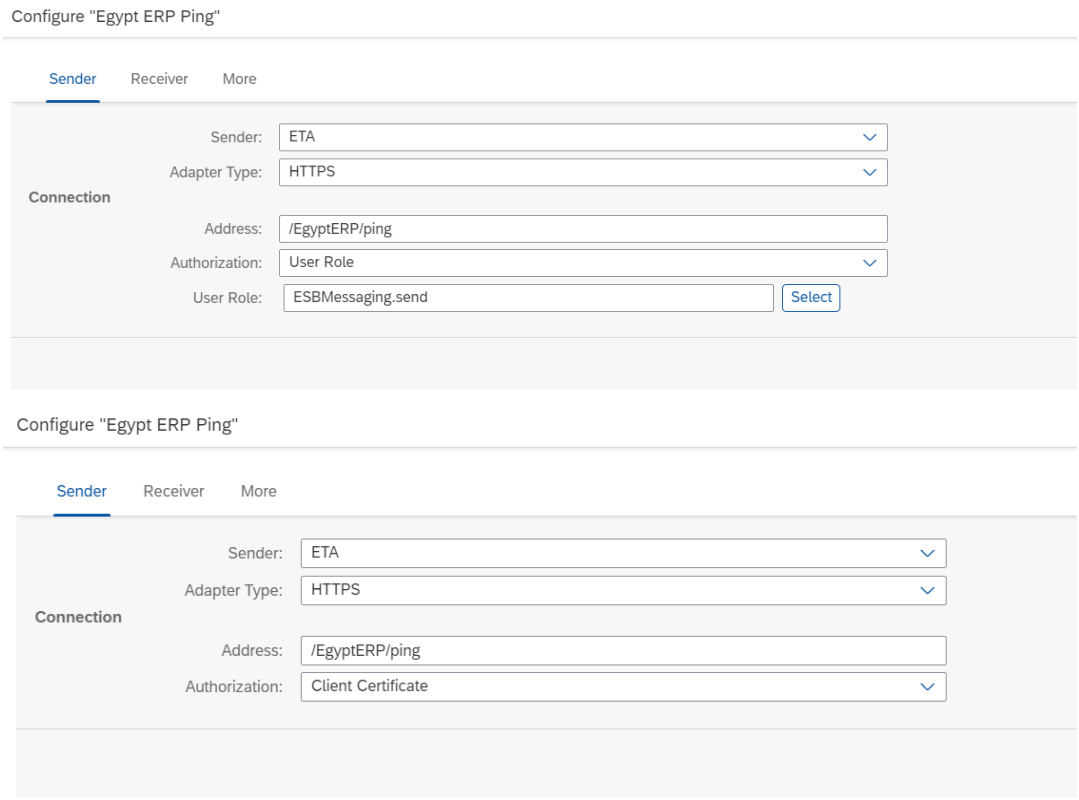
Enter the Service URL created for ERP Ping web service in your ERP system. For more information, please refer Create Services and Bindings for Document Notification Service Definitions [page 31].

> ## i Note
>
> If the target ERP system is not hosted publicly then you can expose the ERP Ping web service via SAP Cloud Connector.

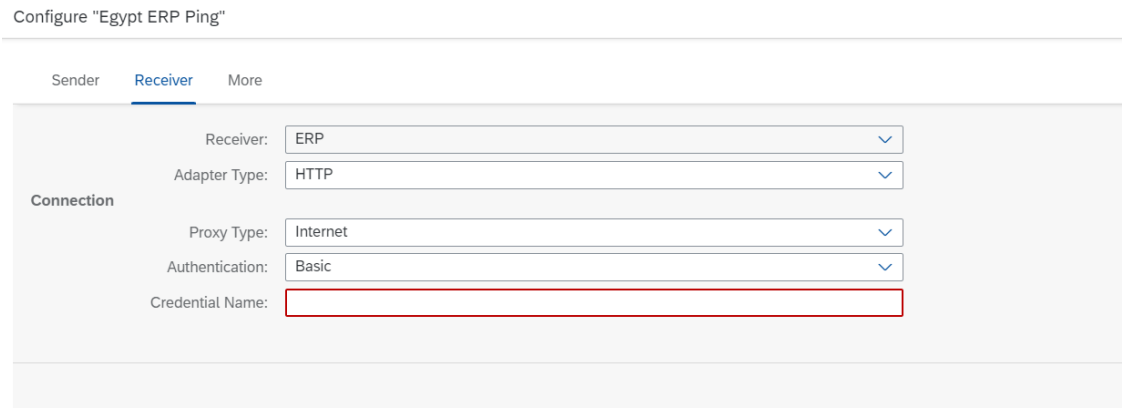
3. Choose *Configure* > *Sender* tab.
   - Use the `Address` parameter to set up the integration package address. Normally you don't have to change this field. In case you change the field, make sure to use the same address when configuring the logical ports in the next chapter.
   - Use the `Authorization` parameter to configure the authorization type.

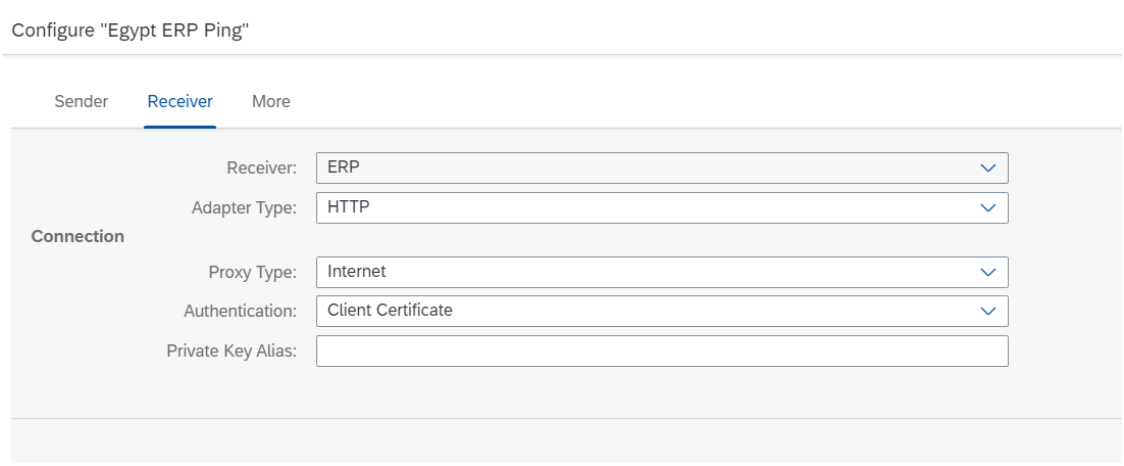
Value	Description
User Role	You want to use basic authentication (user/password).
Client Certificate	You want to use client certificate authentication.

- Use the `User Role` parameter to configure the role based on which the inbound authorization is checked. Choose *Select* to get a list of all available roles.
  The role `ESBMessaging.send` is provided by default.



4. Choose *Configure* > *Receiver* tab.
   - You can select the *Proxy Type* as **`Internet`** or **`On-Premise`** if you are using SAP Cloud Connector.
   - You can select the *Authentication* as **`Basic`** or **`Client Certificate`**.
   - For the *Credential Name* (or *Private Key Alias* if you are using **`Client Certificate`** as the Authentication method) you need to enter the value of the *Secure Parameter* from the security material.





5. Choose *Save* and *Deploy* to deploy it actively to server. Note down the URLs of the endpoints for each service.

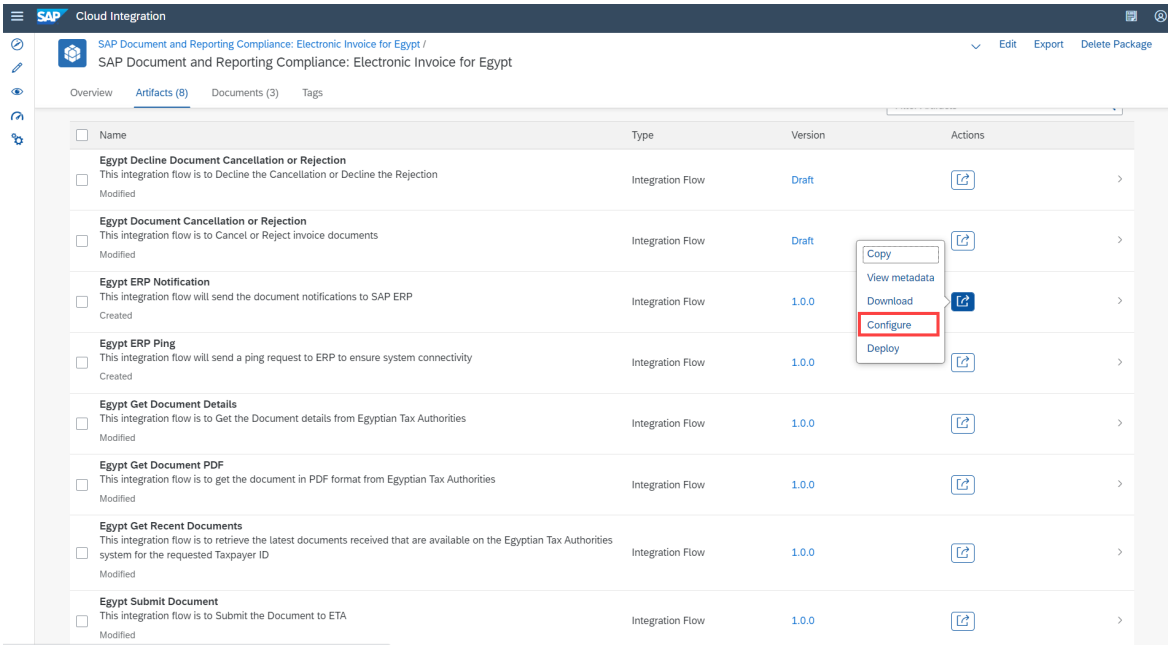
> **i Note**
>
> Depending on the version of your tenant, after pressing these buttons, a warning message can appear.

5.4.4 Configuring Egypt ERP Notification Integration Flow

Provides instructions for configuring integration flow for Egypt ERP Notification.

Procedure

1. Choose *Actions* > *Configure* for the artifact you're configuring.



2. Choose *Configure* > *More* tab (in some versions it may be *Externalized Parameters*).

> ## Note
>
> When you configure the *Mode* as "TEST" or "PROD" the "TEST" or "PROD" APIs will be triggered along with the "TEST" or "PROD" credentials.

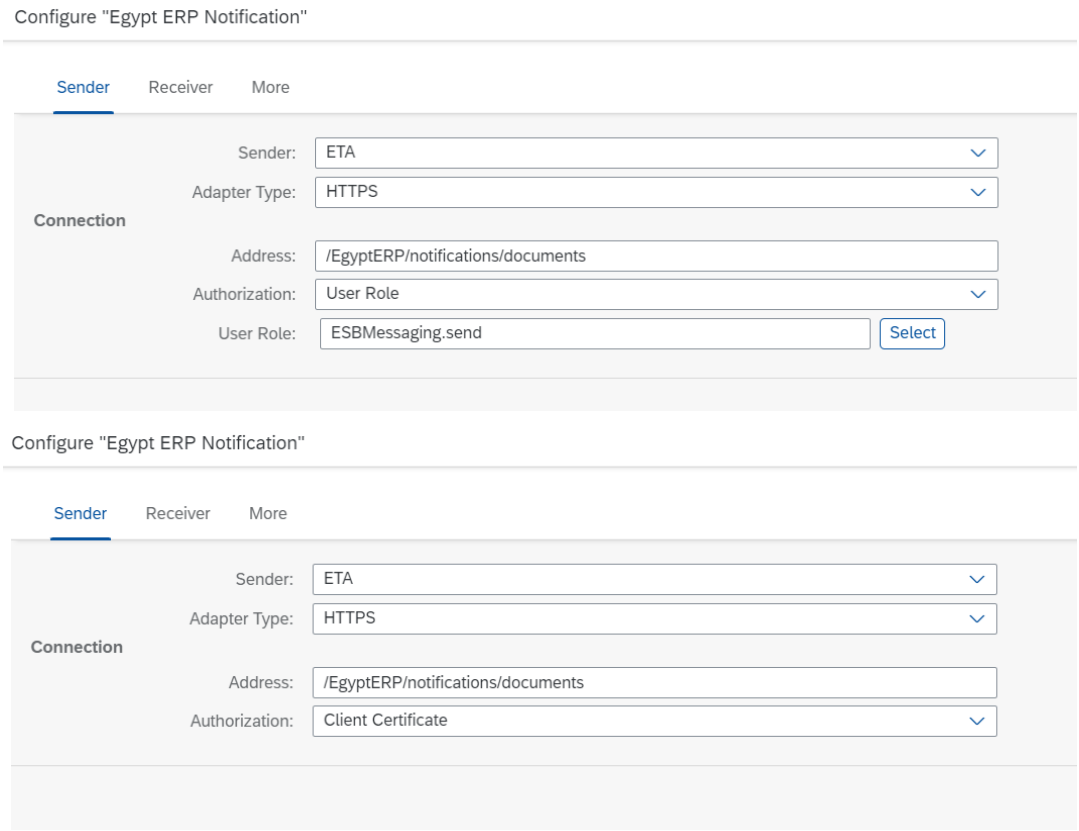
Enter the Service URL created for ERP Notification web service in your ERP system. For more information, please refer Create Services and Bindings for Document Notification Service Definitions [page 31].

> ## Note
>
> If the target ERP system is not hosted publicly then you can expose the ERP Notification web service via SAP Cloud Connector.

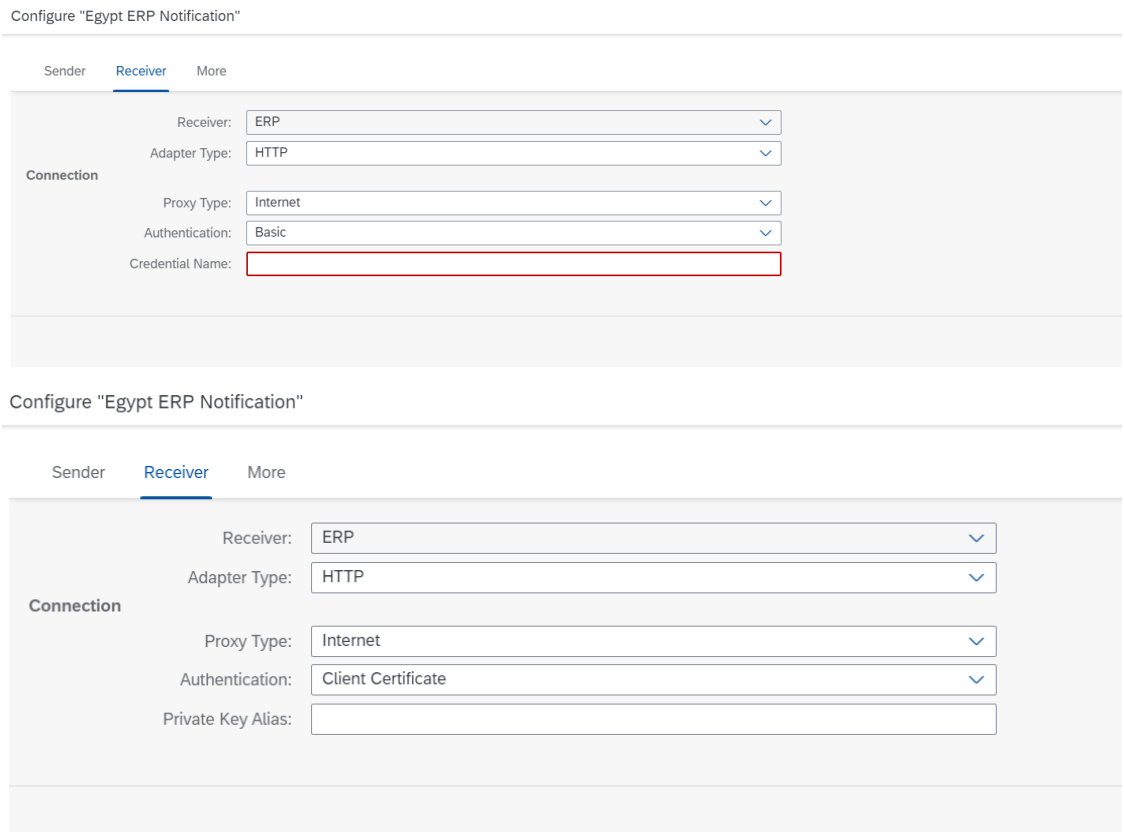
3. Choose *Configure* > *Sender* tab.
   - Use the `Address` parameter to set up the integration package address. Normally you don't have to change this field. In case you change the field, make sure to use the same address when configuring the logical ports in the next chapter.
   - Use the `Authorization` parameter to configure the authorization type.

Value	Description
User Role	You want to use basic authentication (user/password).
Client Certificate	You want to use client certificate authentication.

- Use the `User Role` parameter to configure the role based on which the inbound authorization is checked. Choose *Select* to get a list of all available roles.
  The role `ESBMessaging.send` is provided by default.



4. Choose *Configure* > *Receiver* tab.
   - You select the *Proxy Type* as **`Internet`** or **`On-Premise`** if you are using SAP Cloud Connector.
   - You can select the *Authentication* as **`Basic`** or **`Client Certificate`**.
   - For the *Credential Name* (or *Private Key Alias* if you are using **`Client Certificate`** as the Authentication method) you need to enter the value of the *Secure Parameter* from the security material.



5. Choose *Save* and *Deploy* to deploy it actively to server. Note down the URLs of the endpoints for each service.

> **i Note**
>
> Depending on the version of your tenant, after pressing these buttons, a warning message can appear.

5.5 Create SOAMANAGER Configurations

Required step for configuring the Integration Package for electronic documents and SAP Cloud Integration.

5.5.1 Create Logical Ports in SOAMANAGER

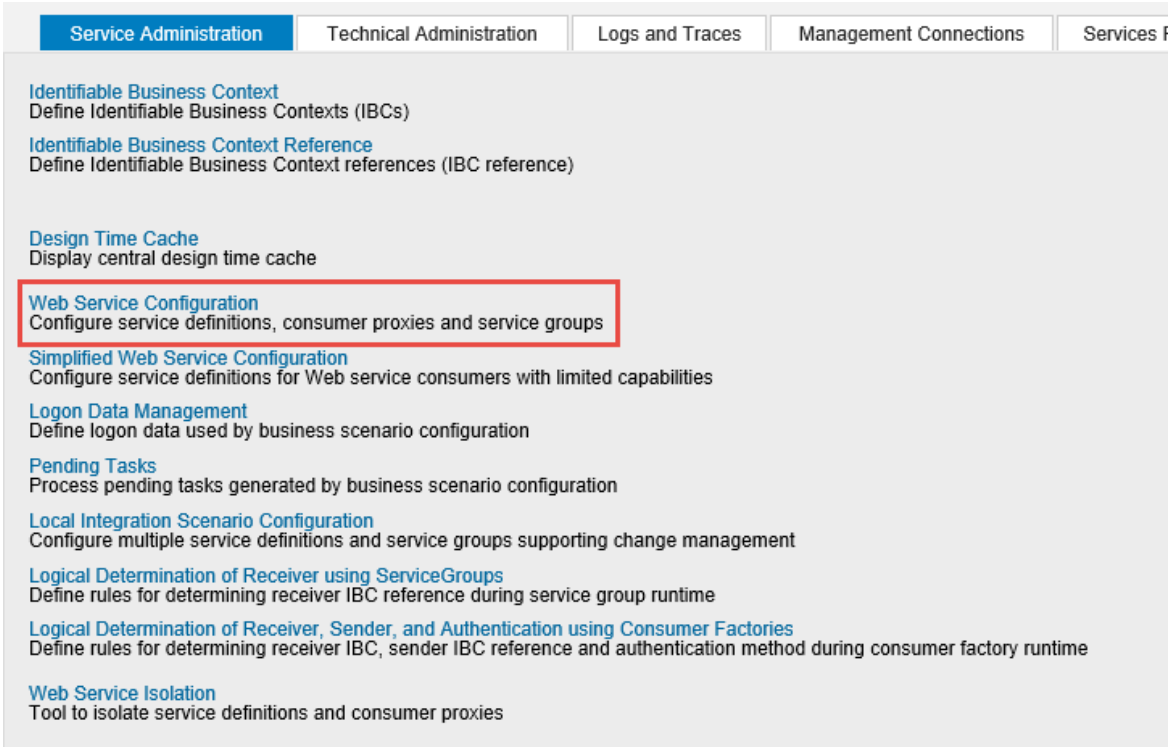
Context

You configure proxies that are needed to connect to the SAP Cloud Integration tenant via logical ports. In test SAP back-end systems, the logical ports are configured to connect to the test tenant. In productive SAP back-end systems, the logical ports are configured to connect to the productive SAP Cloud Integration tenant.

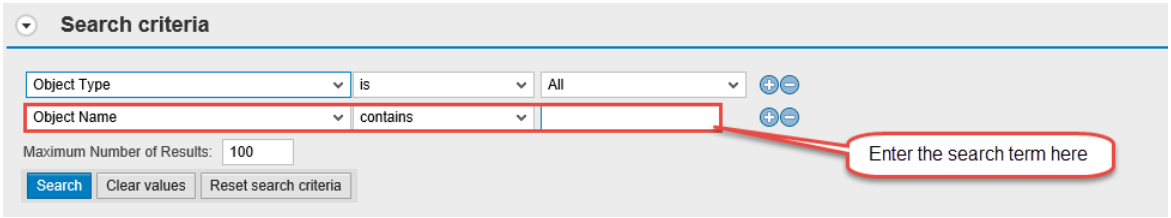
> **i Note**
>
> Depending on your release, the look-and-feel of the screens in your system may differ from the screenshots displayed below.

Procedure

1. In your SAP back-end system, go to the SOAMANAGER transaction and search for *Web Service Configuration*.



2. Find the proxies for SAP Document and Reporting Compliance (eDocument) for Egypt with search term **`*edo*eg*`** .

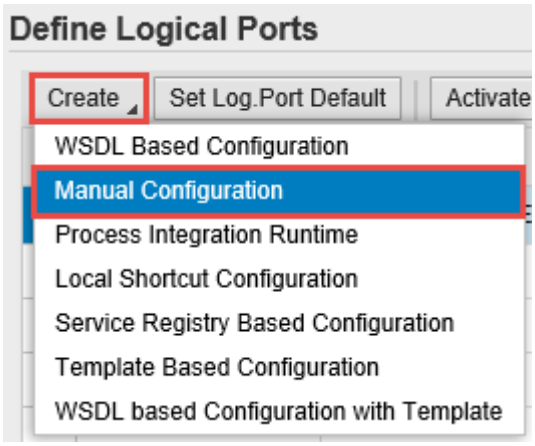


The following table lists the proxies and the logical port name, description, and path for each proxy.

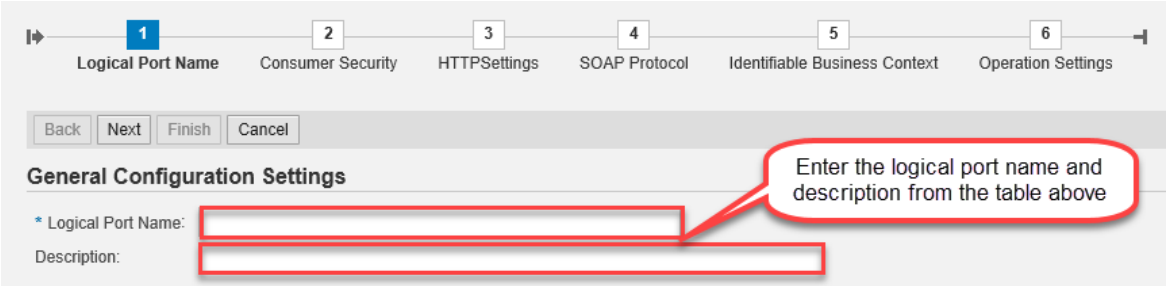
List of Proxies, Logical Port Names, and Paths

Proxy Name	Logical Port Name	Description	Path
CO_EDO_EG_SUBMIT_DOC_V1_1	LP_EDOC_EG_SUBMIT_DOC_V1_1	eDocument Egypt: Logical port for Submit document V1	/cxf/EgyptSubmitDocument
CO_EDO_EG_GET_DOC_DETAIL_V1_0	LP_EDOC_GET_DOC_DETAILS_V1_0	eDocument Egypt: Logical Port for Get Document Details	/cxf/EgyptGetDocDetails
CO_EDO_EG_CANC_REJC_V1_0	LP_EDOC_EG_CANC_REJC_V1_0	eDocument Egypt: Logical port for cancel/reject document V1	/cxf/EgyptCancelReject
CO_EDO_EG_DECL_CANC_REJC_V1_0	LP_EDOC_EG_DECL_CANC_REJC_V1_0	eDocument Egypt: Logical port for Decline Cancel and Reject V1	/cxf/EgyptDecline
CO_EDO_EG_GET_DOC_PDF_V1_0	LP_EDOC_EG_GET_DOC_PDF_V1_0	Logical Port for eDocument Egypt Get Document PDF	/cxf/EgyptGetDocPDF
CO_EDO_EG_GET_RECENT_DOCS_V1_0	LP_EDOC_EG_GET_RECENT_DOCS_V1_0	eDocument Egypt: Logical Port for get recent documents	/cxf/EgyptGEtRecentDocuments
CO_EDO_EG_SEARCH_DOC_V1_0	LP_EDOC_EG_SEARCH_DOC_V1_0	eDocument Egypt: Logical Port for Search Document	/cxf/EgyptSearchDocuments

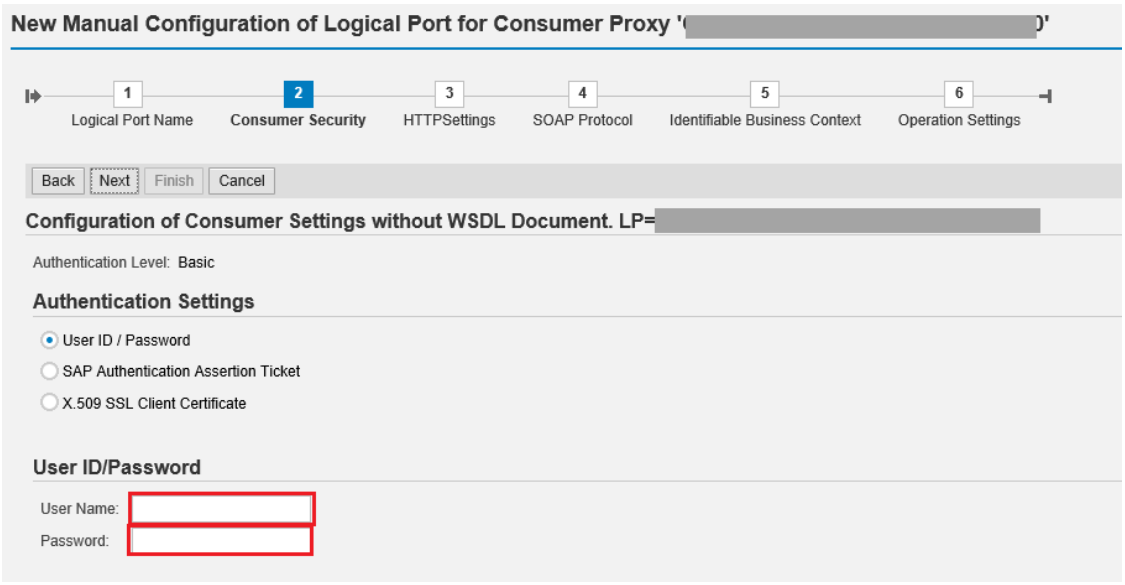
3. In the *Result List*, select a proxy from the list above and create a logical port for each proxy. Choose *Create* > *Manual Configuration*.



4. Enter the logical port name and a description.



5. The configuration you do in the *Consumer Security* tab in the *Configuration* screen depends on the security being used in the communication between the SAP back-end system and SAP Cloud Integration.
   a. If you use the basic authentication, select the *User ID / Password* and enter *User Name* and *Password*.



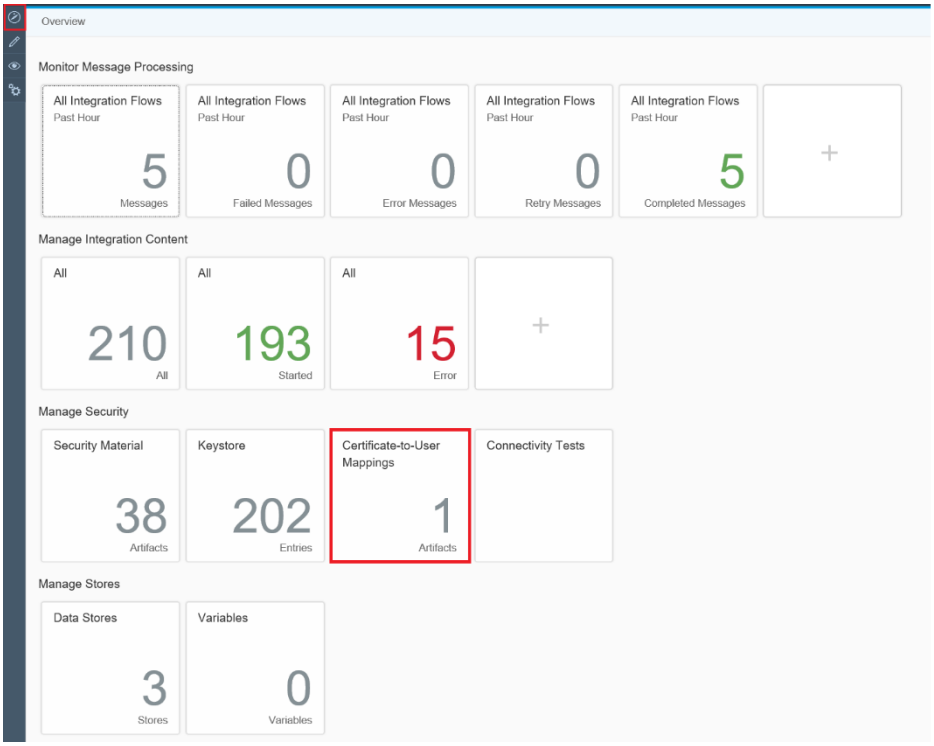
   b. If you use certificate-based authentication, select *X.509 SSL Client Certification*. Ensure that the required certificates are available in the `STRUST` transaction.

      Note: If you don't see this option or can't select it, check the SAP Notes 2368112 and 510007

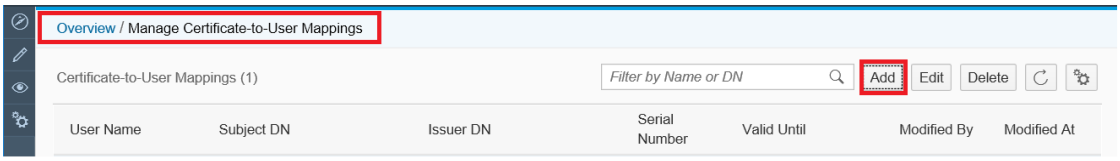
      Additionally, you map the certificate to a user of your tenant with the `ESBMessaging.send` role. First, you export the certificate from the `STRUST` transaction. Save it locally and upload it to SAP Cloud Integration in the `Certificate-to-User Mappings`

   a. Export the SSL Client PSE of the `STRUST` transaction.

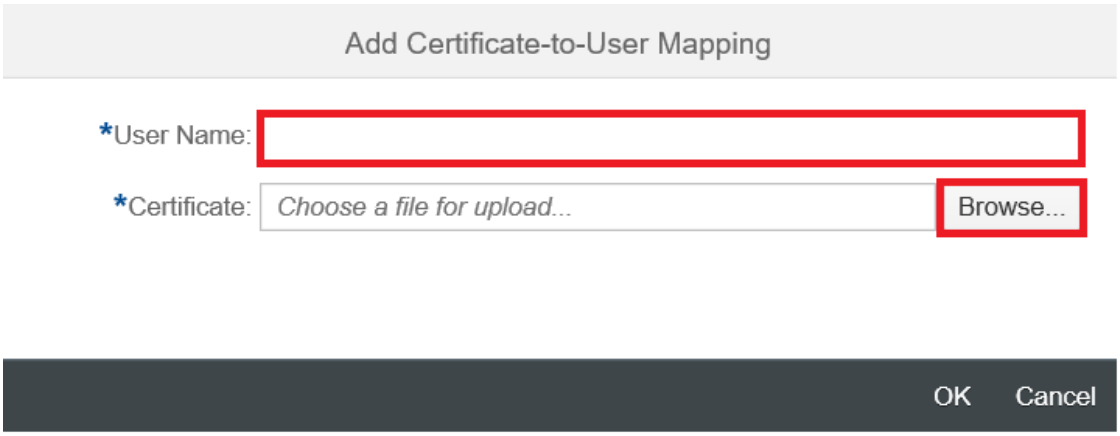
   b. Go to SAP Cloud Integration under *Overview* > *Certificate-to-User Mappings*



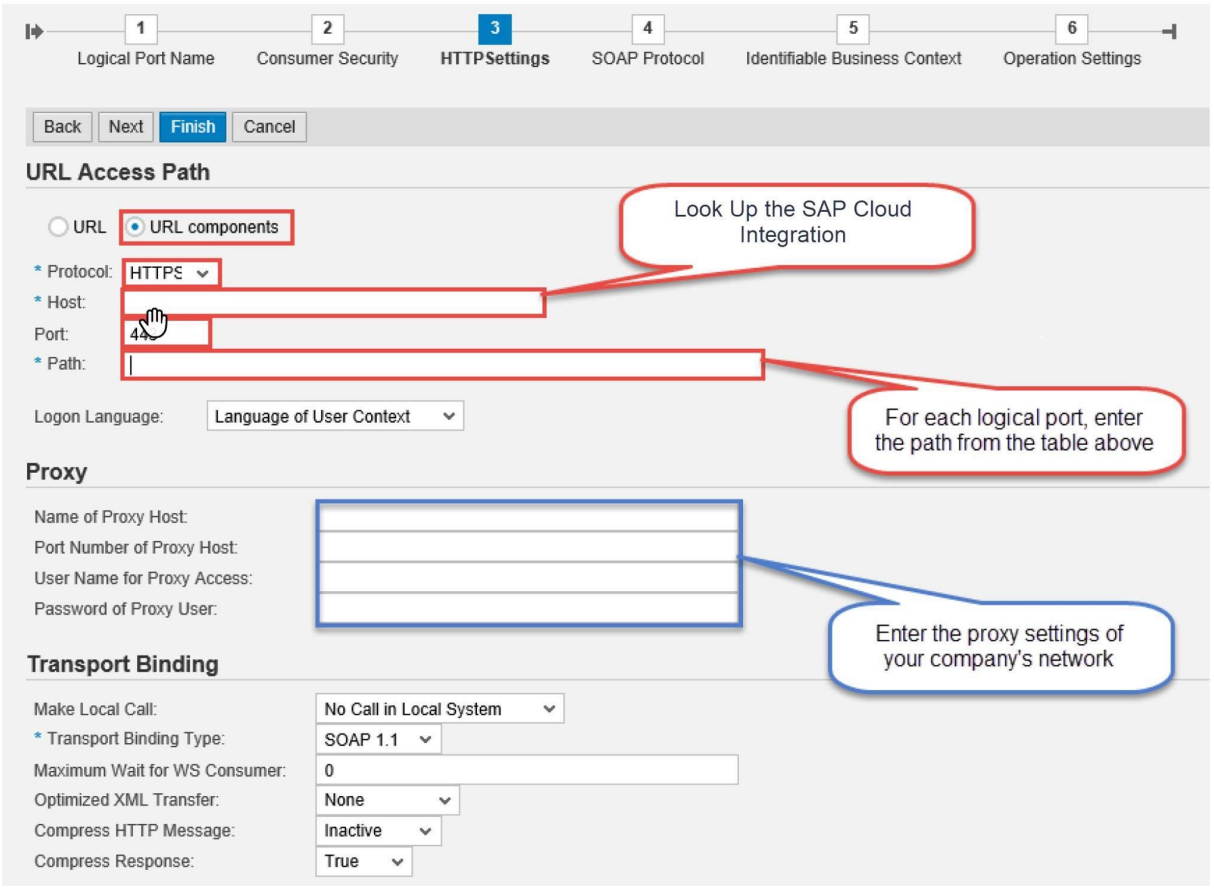
a. Choose *Add*.



b. Enter a user name with `ESBMessaging.send role`, upload the `SSL Client PSE` of the `STRUST` transaction, and choose *OK*.

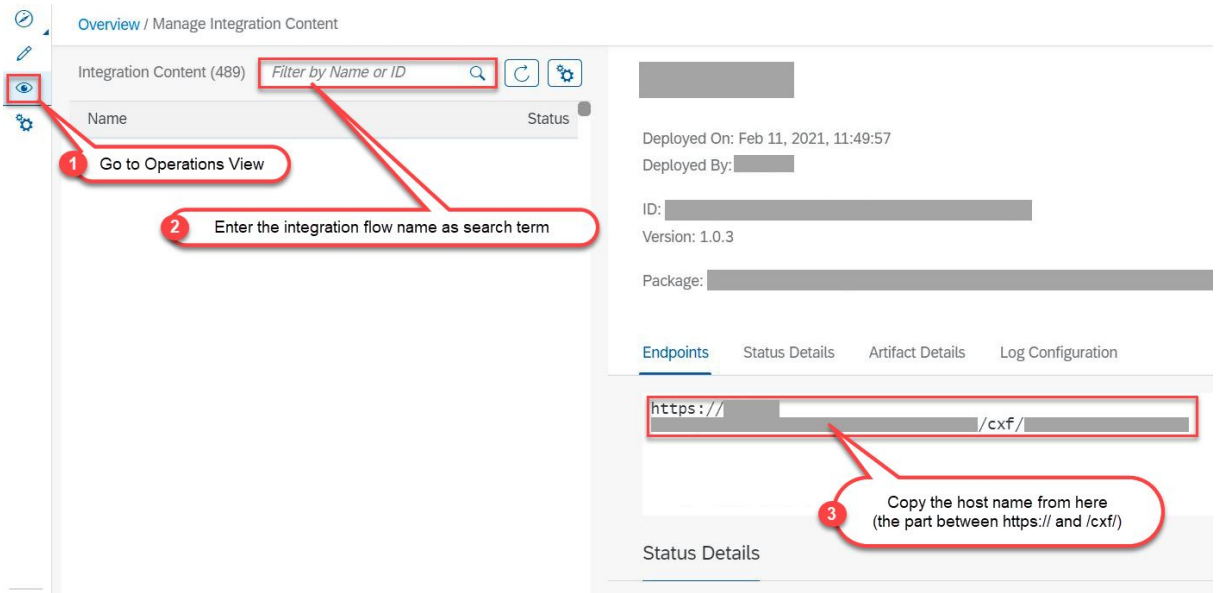


6. On the *HTTP Settings* tab, make the following entries:



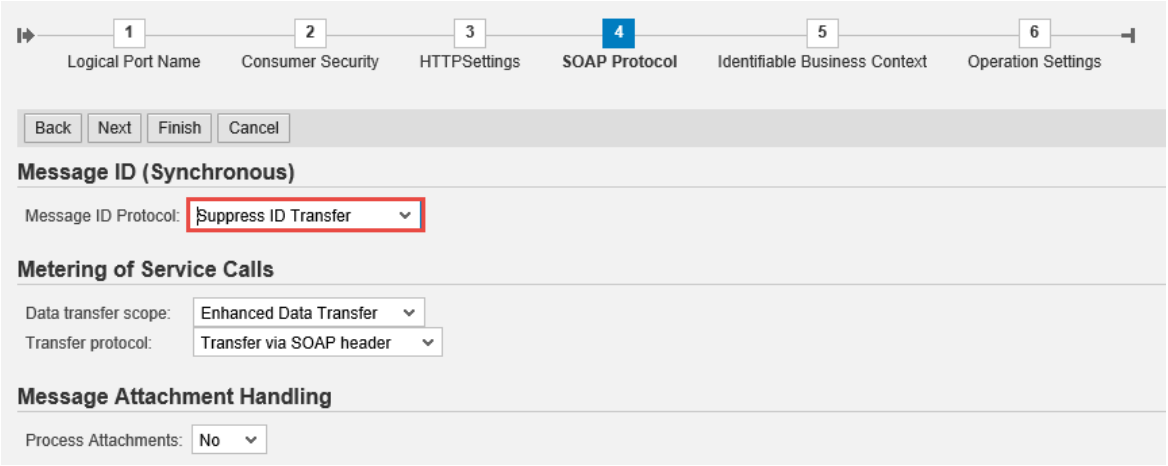
Port 443 is the standard port for the HTTPS protocol.

To find the Host, go to SAP Cloud Integration Web UI and under Managed Integration Content, go to *Monitor* > *All*. Use the search to find your integration flow as in the screenshot below:



> **Note**
>
> The entries for the proxy fields depend on your company's network settings. The proxy server is needed to enable the connection to the internet through the firewall.

7. On the *SOAP Protocol* tab, set *Message ID Protocol* to *Suppress ID Transfer*.



8. No settings are required in the *Identifiable Business Context* and *Operation Settings* tabs. Just select *Next* > *Finish*.

   To check if the connection works, choose Ping Web Service. If the connection works, the system shows the following result (HTTP 405 Service Ping ERROR: Method Not Allowed).

   You can set up an HTTP connection in the `SM59` transaction. Maintain a host and a port of SAP Cloud Integration service and execute a connection test. If there is a successful connection, you receive an error with HTTP return code 500.

9. Remember to create logical ports for each proxy and to execute the following steps in the SAP back-end systems, see SAP Note 2683318 for more information.

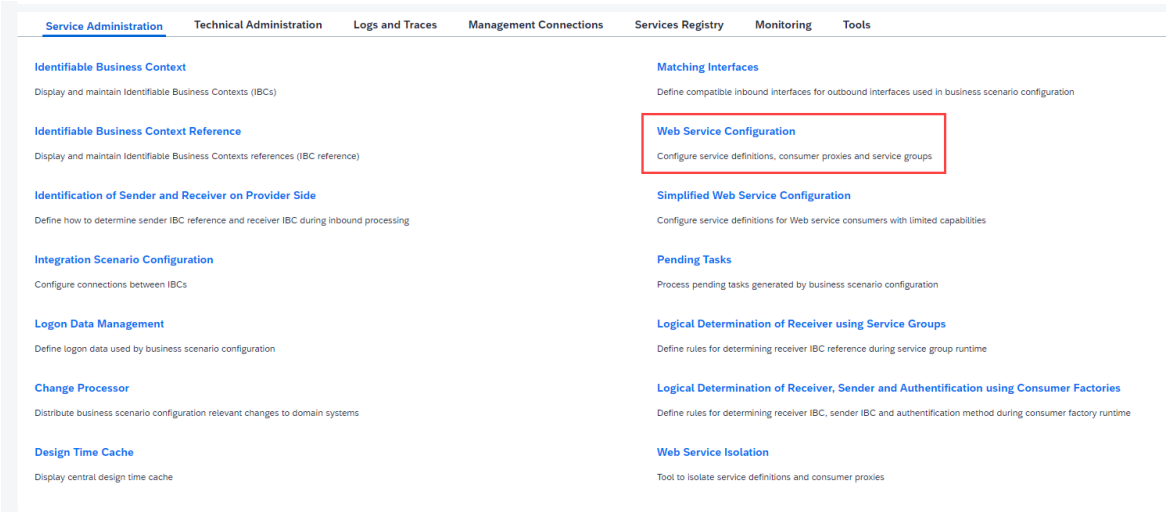
   - Define the SOA service names and assign the logical ports to the combination of a SOA service name and a company code in `EDOSOASERV` view.
   - Assign the SOA service names you created before to an interface ID in `EDOINTV` view.

5.5.2 Create Services and Bindings for Document Notification Service Definitions

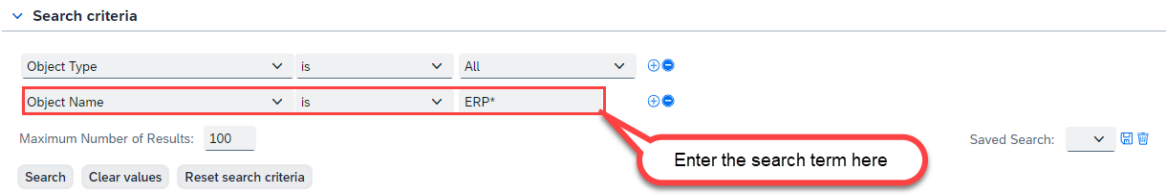
You configure endpoints to receive ERP Ping requests and ERP Notifications from ETA via your SAP Cloud Integration tenant.

Procedure

1. In your SAP back-end system, go to the `SOAMANAGER` transaction and search for *Web Service Configuration*.



2. Find the Service Definitions for ERP Ping and ERP Notification with search term **ERP***.

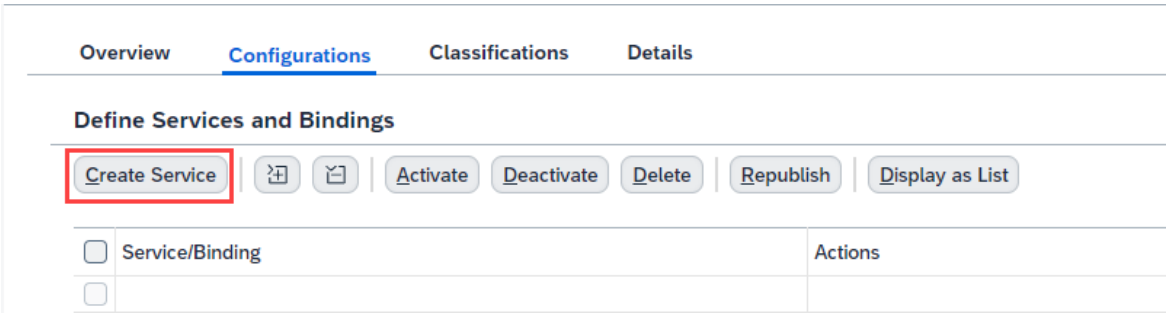


The following table lists the Document Notification Service Definitions and their example Service Names and Service Bindings.

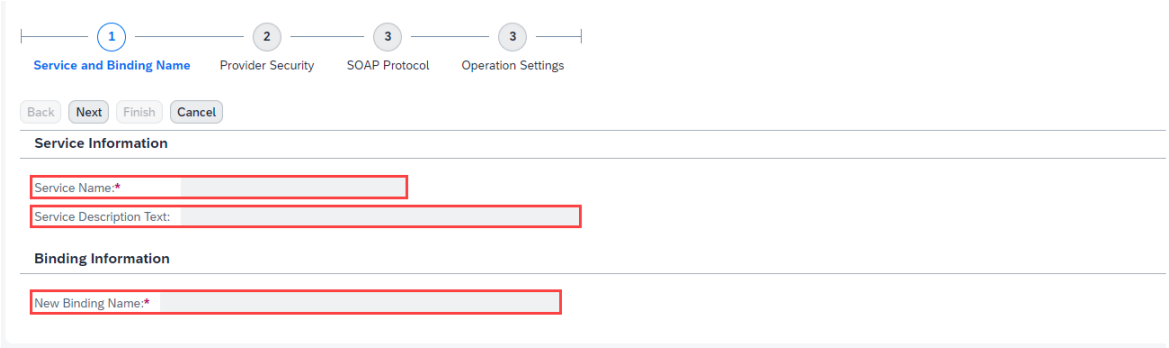
List of Service Definitions and their example Service Names and Service Bindings.

Service Definition	Service Name	Service Description	Service Binding
ERP_PING	eDocEgyptERPPing	eDocument Egypt: ERP Ping	eDocEgyptERPPingHTTP
ERP_NOTIFICATIONS	eDocEgyptERPNotification	eDocument Egypt: ERP Notification	eDocEgyptERPNotificationHTTP

3. For each of the service definitions listed above, create a service and a service binding. Choose *Create Service*.



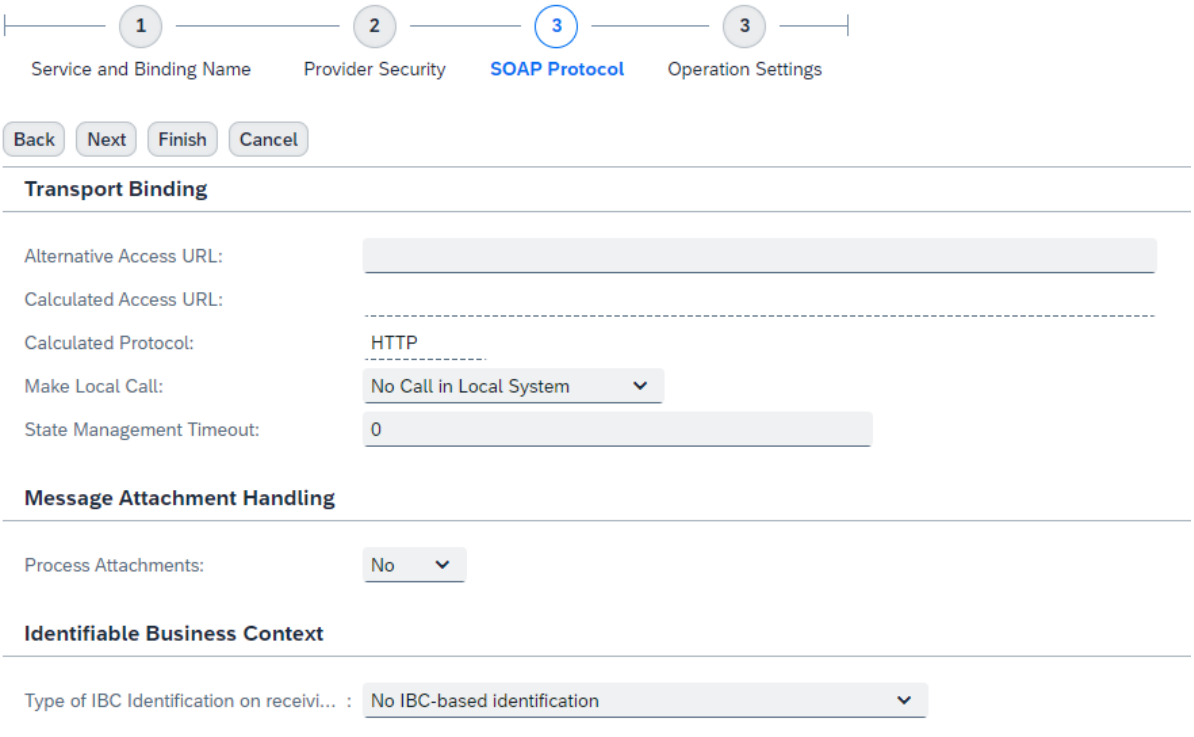
4. Enter *Service Name*, *Service Description Text*, and *New Binding Name*.



5. The configuration you do in the *Provider Security* tab in the *Configuration* screen depends on the security being used in the communication between the back-end system and SAP Cloud Integration.

   For more information please refer Configuring a Service Provider | SAP Help Portal.

6. In the *SOAP Protocol* tab, maintain the following entries and select *Finish*.



7. Follow the steps 3 to 6 to create a Service and a Service Binding for each Service Definitions listed in Step 2.

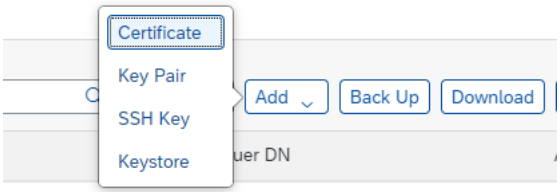
5.6 Retrieve and Save Server Certificate Chain of Tax Authority

You can find and save the Server Certificate Chain from your Tax Authority

Procedure

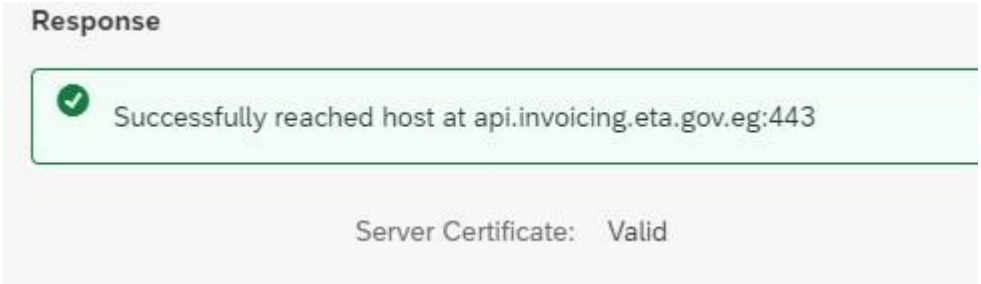
1. In your browser, navigate to the WebUI of the tenant (URL: `<Tenant URL>/itspaces/shell/monitoring/`).
2. Under *Manage Security*, choose *Connectivity Tests*.
3. Choose *TLS*. Enter the following details:
   - Host: There are two *Host* names based on the type of tenant:
     - PROD:`api.invoicing.eta.gov.eg`
     - TEST: `api.preprod.invoicing.eta.gov.eg`

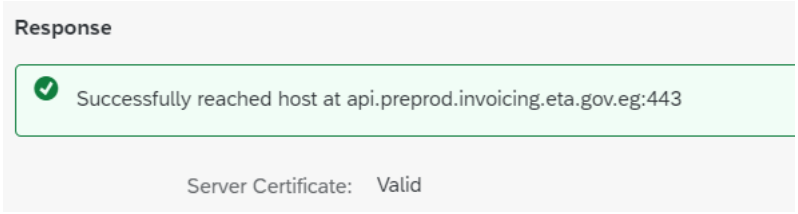
     Port: `443`
   - Clear the options **`Authenticate with Client Certificate`** and **`Valid Server Certificate Required`**.
4. Choose *Send*.
5. Download and extract the Server Certificate Chain.
6. Navigate to *Manage Security* from step 2. Choose *Keystore*.
7. Add all the extracted Certificates, one after another. Choose *Add* > *Certificate*. Browse and choose a certificate to upload. Choose *Add*.



> **Note**
>
> You should add the TEST or PROD certificates based on the *Host* name entered in Step 3.

8. Repeat steps 3 and 4 after adding all the certificates.




Response
Successfully reached host at api.preprod.invoicing.eta.gov.eg:443
Server Certificate: Valid

6 Test the Integration

Describes the steps to test the integration of SAP Document and Reporting Compliance with the integration scenario from SAP Cloud Integration.

Context

The best way to test if the integration works is to create and submit an eDocument from SAP backend system and see if that reaches the destination system, typically the tax authority's system.

Procedure

1. In the back-end system, go to the *eDocument Cockpit* (EDOC_COCKPIT) transaction, in the relevant process.
2. Select an eDocument and check the status of the eDocument in the Cockpit and perform the following actions, accordingly:
   a. If the status of the eDocument is `Created`, the eDocument was created but not submitted yet. In this case, select it and choose *Submit*. This action triggers the creation of the XML and the subsequent communication with SAP Cloud Integration.
   a. If the status is green or yellow, but not `Created`, the communication with SAP Cloud Integration was triggered and was probably successful. You can double-check if the message went through on the SAP Cloud Integration tenant. Alternatively, you can use a trace from the `SRT_UTIL` transaction to look at the XMLs transmitted via web services from the SAP back-end systems.
   b. If the status is red, an error happened during the submission of the eDocument. Select the *Interface Field* to be directed to the Application Interface Platform (AIF) where you can check the log. Any communication errors are displayed there.
3. If the eDocument is successfully submitted, the status changes to *Acknowledged by ETA*, then the connection to tax authority has been correctly set up.

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