



Integration Guide | PUBLIC
2024-07-03

Italy elnvoice: Setting up SAP Integration Suite (SAP ERP, SAP S/4HANA) - Cloud Foundry environment

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1 Disclaimer

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2 Introduction

You use SAP Integration Suite 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 Integration Suite tenant so that the integration between the systems works.

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

ⓘ Note

Although the service name **SAP Integration Suite** is used in the guide title and throughout the guide, this guide **also applies to SAP Cloud Integration running in the Cloud Foundry environment**. If you were onboarded before July 2020, the service you use is SAP Cloud Integration. The initial setup steps for the two services are different, while the integration flow settings and configuration steps in your back-end system are the same. See the **Prerequisites** section for their respective initial setup steps.

ⓘ 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 the relevant 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. You have installed in the test and productive systems all necessary SAP Notes for the Document and Reporting Compliance Solution.
2. You have set up your tenant as follows:
 - If you have subscribed to Process Integration, perform all the initial setup steps described in [Initial Setup of SAP Cloud Integration in Cloud Foundry Environment](#).
 - If you have subscribed to Integration Suite, perform all the initial setup steps described in [Initial Setup](#).

📌 Note

SAP Document and Reporting Compliance requires the **Cloud Integration capability**. You need to activate this capability in the step **Provisioning the Capabilities**.

4 Connectivity Steps



4.1 Set Up a Secure Connection

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

Inbound HTTP connections are not required for Italy. Outbound HTTP connections are required, and are supported with specific, public certificates.

You use SAP ERP Trust Manager (transactionSTRUST) 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. In case of 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, see [Operating and Monitoring Cloud Integration](#)

Note

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

Client Certificate

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](#).

4.1.1 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 and .

Context

Find and save the public certificates from your SAP Integration Suite 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. Use the tenant URL you created as defined in the prerequisites of this document. The URL has the following format: **https://<tenant>.cfapps.<data center>.hana.ondemand.com**, where <tenant> corresponds to the dynamic part and is unique for each subaccount and <data center> corresponds to the data center you are using.
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.

4.1.2 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 Integration Suite.

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.

4.1.3 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 certificate. 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).

4.2 Set Up Aruba Connection

You use the SAP Integration Suite tenants to store and manage the certificates required to support connectivity between the Aruba signing service and SAP Integration Suite.

Context

These tasks **only** apply to domestic companies that use Aruba signing services; these companies must create aliases and deploy the Aruba service integration flow for the production tenant.

Create Aliases and their Credentials

Context

In order to configure Aruba's digital signature in SAP Integration Suite, you need to create two aliases for each VAT within your productive tenant, and assign their credentials.

The aliases are:

- signatory `edoc_italy_aruba_prod_<VAT_code>`
- delegate or technical user `edoc_italy_aruba_deleg_prod_<VAT_code>`

The user will be taken from the credential `edoc_italy_aruba_prod_{IVA}`.

Note

The credentials must be set without the **@faSAP** domain.

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. Use the tenant URL you created as defined in the prerequisites of this document. The URL has the following format: `https://<tenant>.cfapps.<data center>.hana.ondemand.com`, where `<tenant>` corresponds to the dynamic part and is unique for each subaccount and `<data center>` corresponds to the data center you are using.
4. Navigate to the *Manage Security* section, and choose *Security Material*.

Overview / Manage Security Material		
Security Material (3)		
Name	Type	Status
edoc_italy_aruba_prod_	Credentials	Deployed
edoc_italy_aruba_test_	Credentials	Deployed

5. Choose *User Credentials* and enter the following data:.

Field	Entry
<i>Name</i>	<code>edoc_italy_aruba_prod_<VAT_code></code> , where <code><VAT_code></code> is the company's VAT on the SAP production system
<i>Description</i>	Enter the name of the signatory for example, Maria Rossi .
<i>User</i>	Enter the username of the signatory released by Aruba, without the @faSAP suffix. For example, if the signatory's username is <code>abcdef50a20e435q@faSAP</code> , then you enter <code>abcdef50a20e435q</code>
<i>Password</i>	Enter a dummy password, e.g. 1234567 .

6. Choose *Deploy* to save the changes.
7. Repeat the steps using the delegate alias to create a delegate (`edoc_italy_aruba_deleg_prod_<VAT_code>`) or a technical user (`edoc_italy_aruba_test_<VAT_code>`).

Retrieve and Save the Transport Certificates

Procedure

1. Copy the URLs listed below, and paste them into your web browser.

Environment	URL
Test	https://arss.demo.firma-automatica.it/ArubaSignService/ArubaSignService
Production	https://arss-sap.actalis.it/ArubaSignService/ArubaSignService

2. When prompted by the *Website Identification* window, choose *View certificate*.
3. Select the root certificate, and then choose *Export to file* to save the certificate locally.
4. Repeat these steps for each unique root, intermediate and leaf certificate, and repeat for both your test and production tenants.

Upload the Certificates to the Keystore

Procedure

1. Access SAP Integration Suite.
2. Navigate to the *Manage Security* section, and choose *Keystore*.
3. Choose *Certificate* and import all the transport certificates.
4. Save your entries.

4.3 Registration at Tax Authorities

To send and receive invoices through the Exchange System (Italian: Sistema de Interscambio, SdI) of the Italian tax authorities, your company needs to register two web-service channels for the SDICoop Service on their official website. You use these channels for the following purposes:

- To send outbound invoices and outcome notifications related to inbound invoices from the eDocument Framework (using SAP Integration Suite) to the Exchange System.
- To receive inbound invoices and status notifications related to outbound invoices from the Exchange System.

Note

Multiple companies in a group can share a channel, and send all invoices through the registered channel to SdI.

To complete communication channel registration at the Italian tax authorities, see SAP Note [2583309](#).

If you are located in the extension landscape, see SAP Note [3156359](#).

Note

You are in the extension landscape if the tenant URL fulfills the following pattern: `<xxxx-
<nnn>.hana.ondemand.com....>` where `<nnn>` is any numeric value.

You need to complete the steps outlined in the **Communication Channel Registration** document, including:

- Generate certificate signing requests (CSRs) for both outbound and inbound communications
- Create the channel registration request
- Sign and send the request

4.3.1 Deploying Key Pairs, Certificates and Credentials

Context

When registration with the Exchange System (Italian: Sistema de Interscambio, SdI) is successful, you will receive an email to your CEM (Italian: Posta Elettronica Certificata PEC) address confirming that the channel has been registered.

Additional steps are required for inbound and outbound communication security. This involves deploying the key pairs, certificates and the credentials to the SAP Integration Suite tenants.

To finalize communication channel registration at the Italian tax authorities, see SAP Note [2583309](#). You need to complete the steps outlined in the **Communication Channel Registration** document, including:

- Sign and send the request
- Understand the information received from the SdI
- Upload security elements to SAP Integration Suite keystore
- Configure SSL host-owned signed certificate
- Add tax authority (Italian: Agenzia Delle Entrate) certificates to the SSL host
- Create custom domains
- Add the certificate-to-user mapping

Create Aliases and their Credentials

Context

In the task, you registered a communication channel for the company. Now, you create aliases for each key pair, and upload the credentials for the company to the productive tenant.

Two aliases (and their credentials) are required for each VAT within your productive tenant. Create the alias for the key pair according to the following naming convention:

- Non-production environment, `edoc_italy_key_test_<VAT_code>*`
- Production environment, `edoc_italy_key_prod_<VAT_code>*`

* You can use the same communication channel registration for multiple VAT codes. In that case, add to your test/productive tenant the same key-pair multiple times using corresponding VAT-code specific aliases

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. Use the tenant URL you created as defined in the prerequisites of this document. The URL has the following format: `https://<tenant>.cfapps.<data center>.hana.ondemand.com`, where `<tenant>` corresponds to the dynamic part and is unique for each subaccount and `<data center>` corresponds to the data center you are using.
4. Navigate to the *Manage Security* section, and choose *Keystore*.
5. Select *Add* and choose *Key Pair*:

Field	Entry
<i>Alias</i>	<code>edoc_italy_key_test_<VAT_code></code> , where <code><VAT_code></code> is the company's VAT on the SAP production system.
<i>File</i>	Choose the signed client key with appended caentrate certificate in .p12 format.
<i>Password</i>	Enter the password for the file.

Note

Use the file and password that you have created in the process described in the **Communication Channel Registration** document.

6. Choose *Deploy* to save the changes.
7. Repeat the steps for each alias.
8. Deploy the public certificates and the root certificates of the Exchange System in the keystore. You download them from the Exchange System website in the *Manage the Channel* section after you have successfully registered the registration channel.

5 Configuration Steps in SAP Integration Suite

The following sections tell you the necessary configuration you do in SAP Integration Suite.

5.1 General Information

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

Integration flows for eDocument for Italy

Integration Flow Name in WebUI	Project Name/Artifact Name
Italy Receive Invoice	com.sap.GS.Italy.ReceiveInvoice
Italy Receive Notification	com.sap.GS.Italy.ReceiveInvoiceNotification
Italy Send Invoice	com.sap.GS.Italy.SendInvoice
Italy: Send Outcome Notification	com.sap.GS.Italy.SendOutcomeNotification
Italy: Sign Service Aruba	com.sap.GS.Italy.SignServiceAruba
Italy: Xml to Html Transformation	com.sap.GS.Italy.XmlToHtml

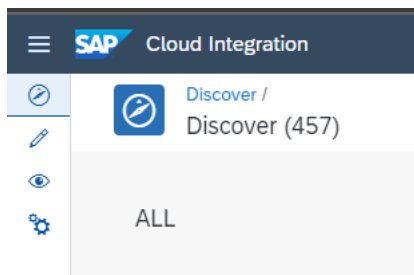
5.2 Copying Integration Flows

Context

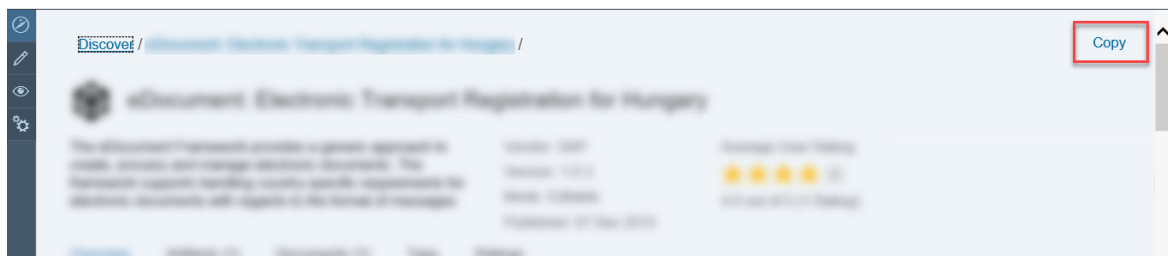
Copy all integration flows in the package SAP Document and Reporting Compliance: Electronic Invoicing for Italy to the target tenant as follows:

Procedure

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



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



5.3 Configuring Integration Flows

Context

You configure the package that you have copied as described in .

Procedure

1. There are 6 *Artifacts* in the integration package SAP Document and Reporting Compliance: Electronic Invoicing for Italy:
 - Italy: Receive Invoice
 - Italy: Receive Notification
 - Italy: Send Invoice
 - Italy: Send Outcome Notification
 - Italy: Sign Service Aruba
 - Italy: XML to HTML Service
2. Choose ► *Actions* ► *Configure* ► for the artifact you are configuring.

Note

Not all external parameters exist for each integration flow. Configure only the ones which are available.

3. Choose ► *Configure* ► *More* ► tab (in some versions it may be *Externalized Parameters*)
 - Use the `Mode` parameter to set up the integration package usage mode:

Value	Description
TEST	To use the test system of the tax authority or the signing service.
PROD	To use the productive (that is, legally binding) system of the tax authority or the signing service.

- Use the `SignB2BInvoice` parameter to configure whether you want B2B invoices to be signed or not:

Value	Description
YES	The system signs B2B invoices.
NO	The system does not sign B2B invoices.

Note: The system always signs B2G invoices.

- Use the `SignServiceAdapterAddress` parameter to configure the address of the signing integration flow. Normally you don't have to change this field. It is only required in case you are using your custom integration flow to sign invoices and notifications.

Configure "Italy Send Invoice"

Sender [More](#)

Type:

Mode:

SignB2BInvoice:

SignServiceAdapterAddress:

4. 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.

Configure "Italy Send Invoice"

[Sender](#) [More](#)

Connection

Sender:

Adapter Type:

Address:

Authorization:

User Role:

5. 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 messages can appear. You can ignore these messages by choosing [Close](#). The first two warnings are related to the payload attachments; currently the invoice registration process does not support or require message attachments (for example, scanned copies of invoices) in any stage of processing and communication.

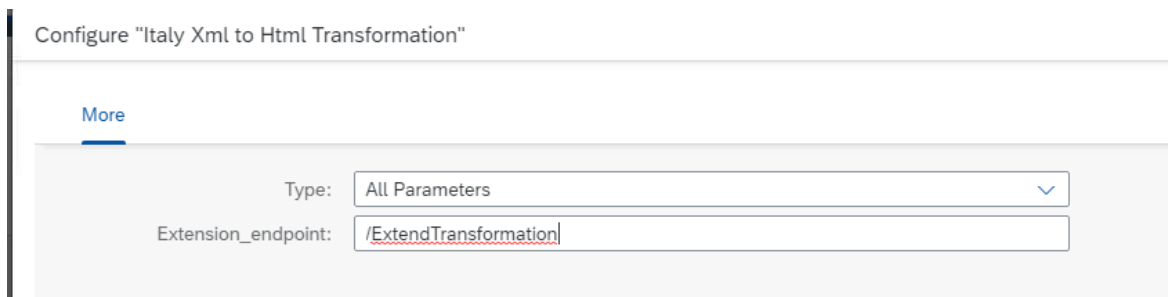
5.4 Extending Integration Flow for HTML Display

Context

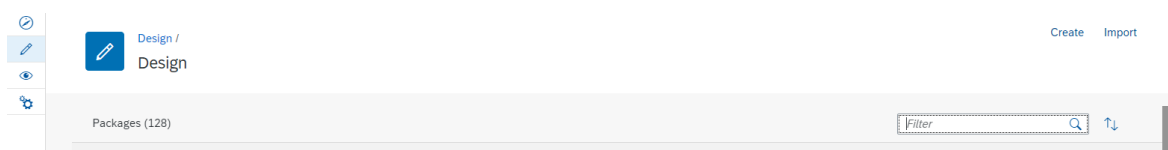
If you want to display the HTML in a different format than the format provided by the tax authorities, you can extend the integration flow *Italy Xml to Html Transformation* with your own or any other customized stylesheet. This is not a standard delivery from SAP and any derived issues are your own responsibility.

Procedure

1. Go to **Artifacts** > *Italy Xml to Html Transformation* > **Configure**.
2. Enter an endpoint address for your custom integration flow. The address must start with an */*. See the example in the screenshot.



3. Go to the Design tab (pencil icon) and choose *Create*.



4. Specify the package information by entering a name, technical name and short description and save your entries.

Design / New Package / Extension_package

Header Overview Artifacts Documents Tags

*Name: Extension_package

*Technical Name: Extensionpackage i

*Short Description: Extension package for Italy edoc

Version:

Vendor:

5. Go to **Artifacts** > **Add** > **Integration Flow**.

Design / Extension_package / Extension_package

Header Overview **Artifacts** Documents Tags

Add ▾ Delete Actions ▾

<input type="checkbox"/>	Name	Type	Version
		No data	

Value Mapping
 OData Service
 Integration Flow

6. Specify a name, ID and description and finish it by clicking on **OK**.

Add integration flow artifact

Create Upload

Name: *

ID: *

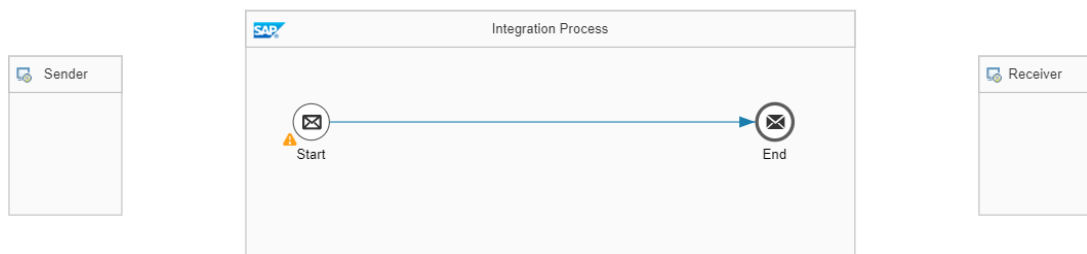
Product Profile: ▾

Description:

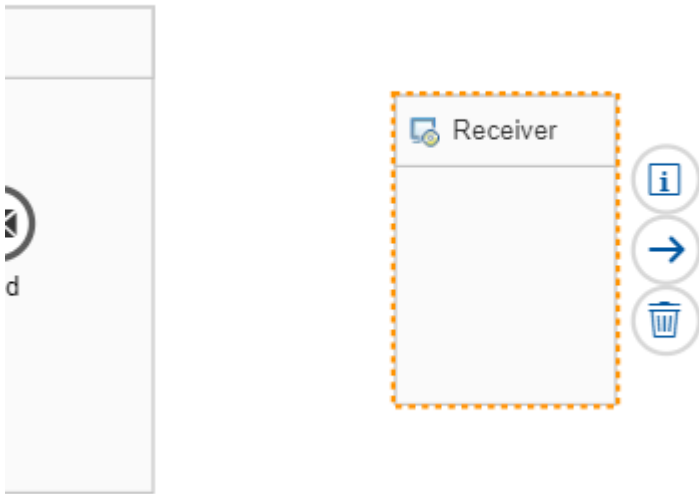
Sender: Receiver:

OK Cancel

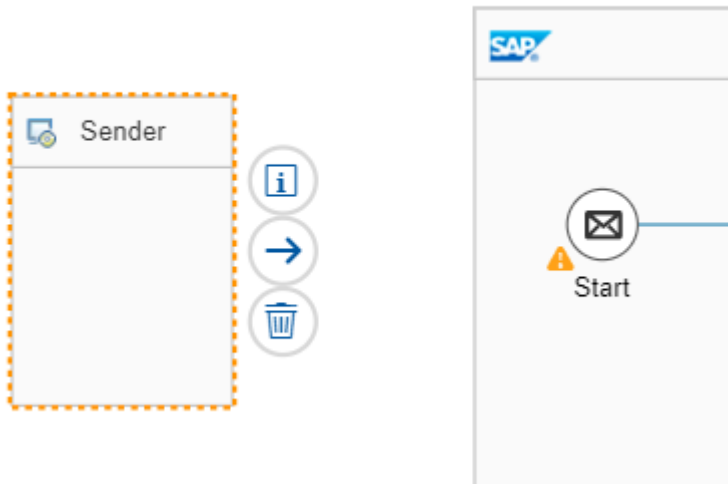
The newly created integration flow looks as follows:



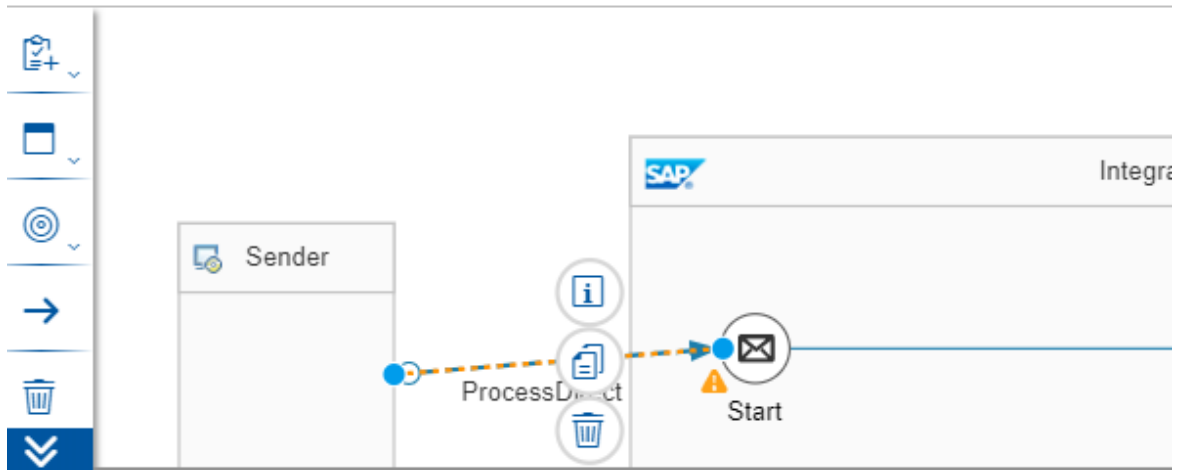
7. Go to *Edit* mode and remove the *Receiver* by clicking on the bin icon:



8. On the *Sender* side, click the arrow icon and move it to *Start* to create a connector (Process Direct adaptor) between *Sender* and *Start*.



9. Click on the connector to get the *Connection* tab.
10. Go to the *Connection* tab and in the address field, enter the endpoint name which you entered in step 2.



ProcessDirect

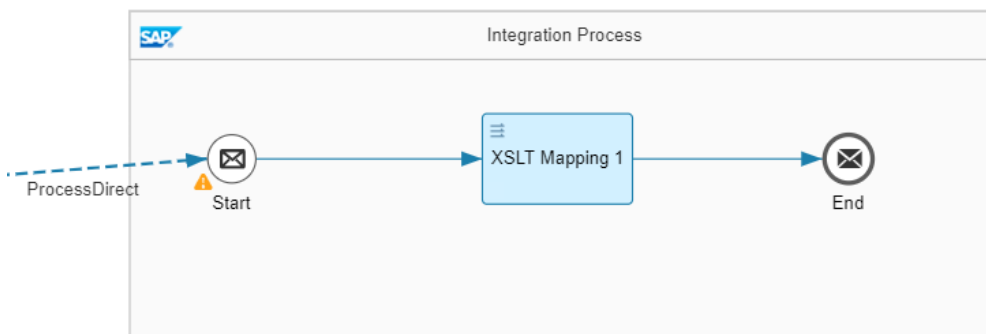
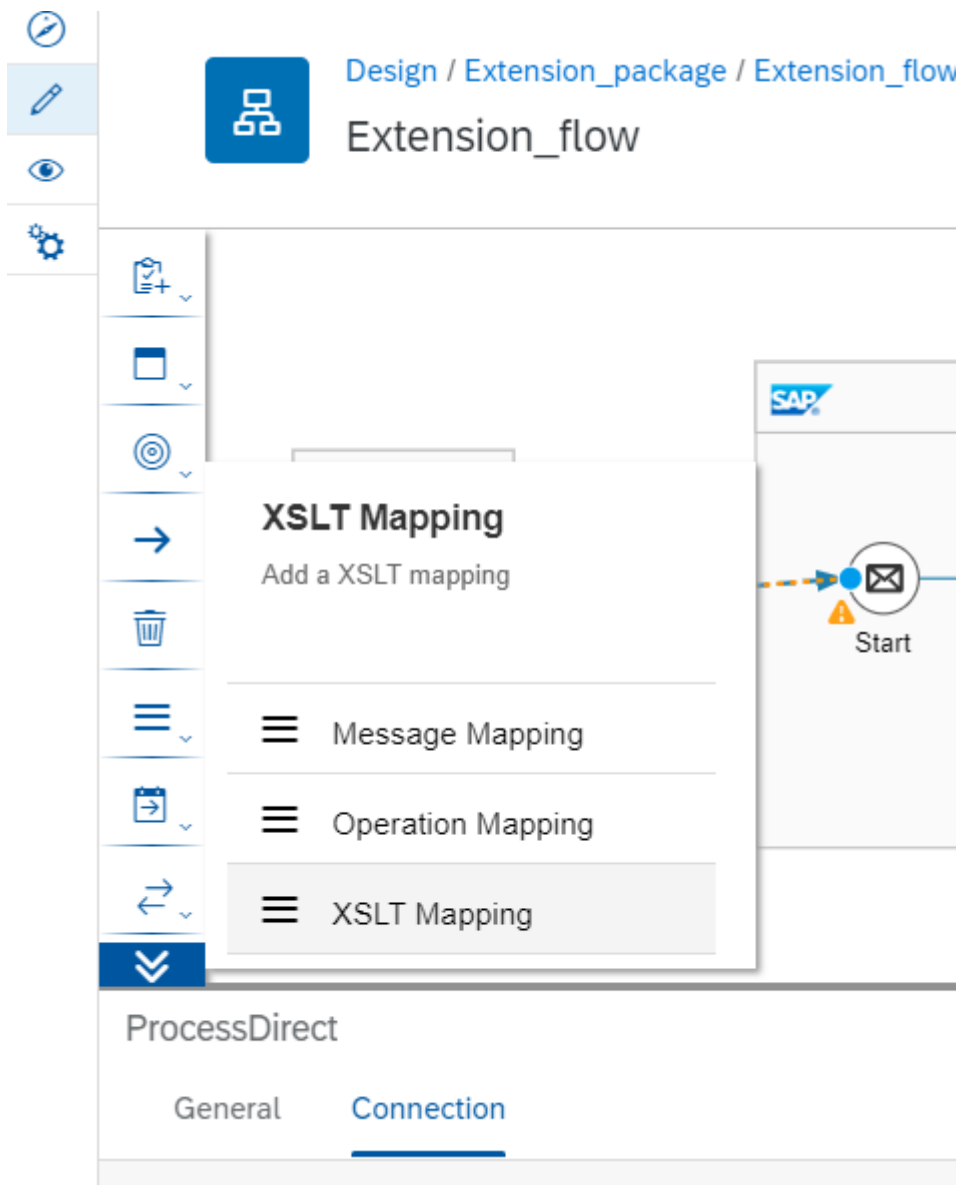
General

Connection

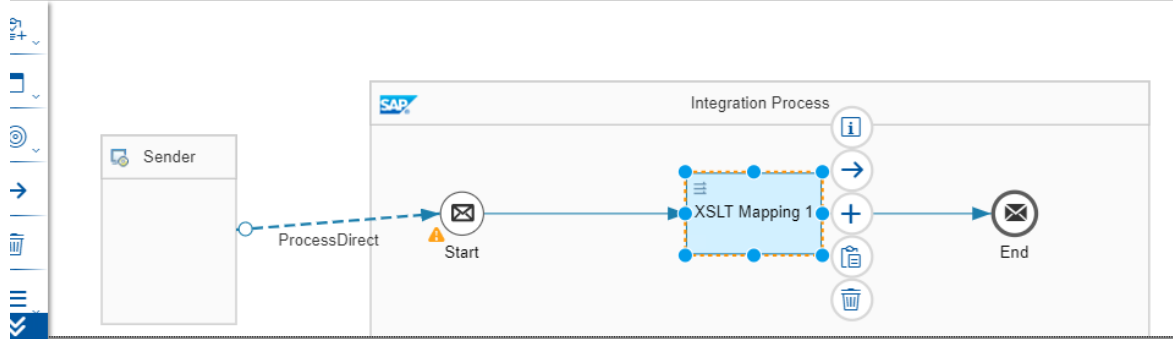
CONNECTION DETAILS

Address: *

11. From the panel on the left, choose the *XSLT Mapping* item and put it between Start and End:



12. Click on the XSLT Mapping to get the *Processing* tab.
13. Go to the *Processing* tab and click on *Select* to choose and upload a resource, your custom stylesheet, from your file system.



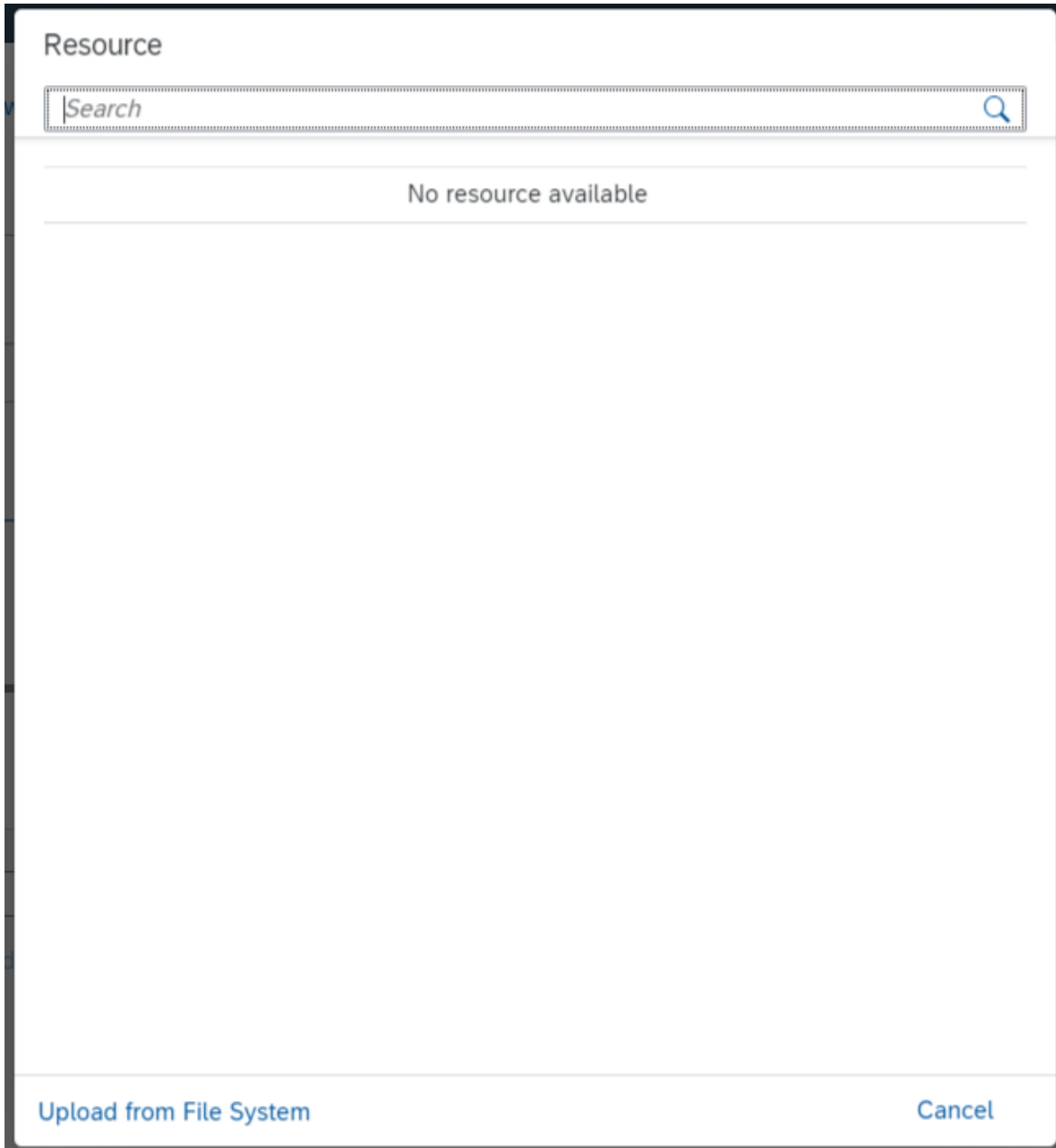
XSLT Mapping

General Processing

Source: * Integration Flow

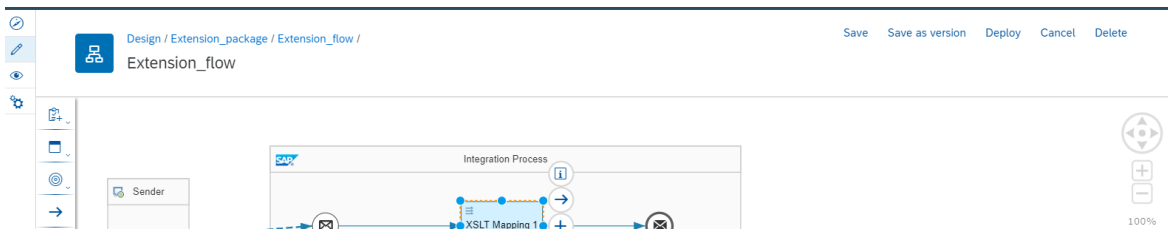
Resource: * <No resource assigned>

Output Format: Bytes



The system uploaded the selected file and shows it in the dialog box.

14. Save your entries and click on *Deploy*.



6 Configuration Steps in Back-End Systems

The following sections tell you the necessary configuration you do in SAP back-end systems to connect with SAP Integration Suite.

6.1 Creating Logical Ports in SOAMANAGER

Required step for configuring the Integration Package for eDocument and SAP Integration Suite.

Context

You configure proxies which are needed to connect to the SAP Integration Suite 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 Integration Suite tenant.

📘 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](#).

Service Administration | Technical Administration | Logs and Traces | Management Connections | Services F

Identifiable Business Context
Define Identifiable Business Contexts (IBCs)

Identifiable Business Context Reference
Define Identifiable Business Context references (IBC reference)

Design Time Cache
Display central design time cache

Web Service Configuration
Configure service definitions, consumer proxies and service groups

Simplified Web Service Configuration
Configure service definitions for Web service consumers with limited capabilities

Logon Data Management
Define logon data used by business scenario configuration

Pending Tasks
Process pending tasks generated by business scenario configuration

Local Integration Scenario Configuration
Configure multiple service definitions and service groups supporting change management

Logical Determination of Receiver using ServiceGroups
Define rules for determining receiver IBC reference during service group runtime

Logical Determination of Receiver, Sender, and Authentication using Consumer Factories
Define rules for determining receiver IBC, sender IBC reference and authentication method during consumer factory runtime

Web Service Isolation
Tool to isolate service definitions and consumer proxies

- Find the proxies for SAP Document and Reporting Compliance (eDocument) for Italy with search term **CO_EDO_IT***.

Search criteria

Object Type is All

Object Name contains

Maximum Number of Results: 100

Search Clear values Reset search criteria

Enter the search term here

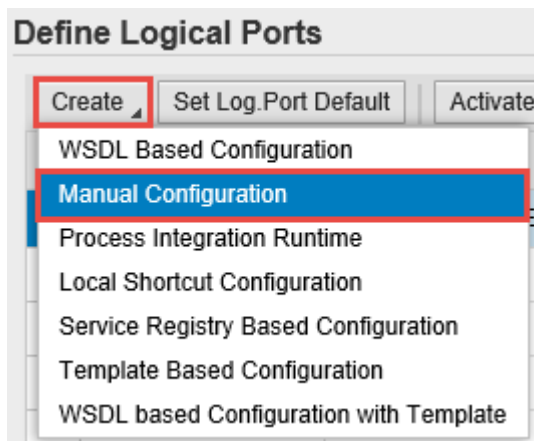
The following table lists the proxies and the logical port name, description and path for each proxy.

List of Proxies, Logical Port Names, and Paths

Proxy Name	Logical Port Name	Description	Path
CO_EDO_IT_RECEIVE_IN-VOICE_V1_0	EDO_IT_RECEIVE_IN-VOICE_DELETE	eDocument Italy - Delete Invoice	/cxf/ItalyDeleteInvoice
CO_EDO_IT_RECEIVE_IN-VOICE_V1_0	EDO_IT_RECEIVE_IN-VOICE_PULL	eDocument Italy - Pull Invoice	/cxf/ItalyPullInvoice
CO_EDO_IT_RECEIVE_NO-TIF_V1_0	EDO_IT_RECEIVE_NO-TIF_DELETE	eDocument Italy - Delete Notification	/cxf/ItalyDeleteNotification
CO_EDO_IT_RECEIVE_NO-TIF_V1_0	EDO_IT_RECEIVE_NO-TIF_PULL	eDocument Italy - Pull Notification	/cxf/ItalyPullNotification

Proxy Name	Logical Port Name	Description	Path
CO_EDO_IT_X121_SEND_IN V_V1_1	EDO_IT_SEND_INVOICE	eDocument Italy - Send Invoice	/cxf/ItalySendInvoice
CO_EDO_IT_SEND_NO- TIF_V1_0	EDO_IT_SEND_NOTIF	eDocument Italy - Send Outcome Notification	/cxf/ItalySendOutcomeNotification
CO_EDO_IT_XML_TO_HTML_V1_0	EDO_IT_XML_TO_HTML_PORT	eDocument Italy - Logical Port for XML Conversion to HTML	/cxf/ItalyXmlToHtml

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 back-end system and SAP Integration Suite.

New Manual Configuration of Logical Port for Consumer Proxy ' [REDACTED]'

1 Logical Port Name 2 Consumer Security 3 HTTPSettings 4 SOAP Protocol 5 Identifiable Business Context 6 Operation Settings

Back Next Finish Cancel

Configuration of Consumer Settings without WSDL Document. LP= [REDACTED]

Authentication Level: Basic

Authentication Settings

User ID / Password
 SAP Authentication Assertion Ticket
 X.509 SSL Client Certificate

User ID/Password

User Name:
Password:

- If you use the basic authentication for *User Name*, enter the value for the **clientid** and for *Password*, enter the value for **clientsecret**. You have created these values for your service instance in SAP Integration Suite. See [Creating Service Instances](#).

1 Logical Port Name 2 Consumer Security 3 HTTPSettings 4 SOAP Protocol 5 Identifiable Business Context 6 Operation Settings

Back Next Finish Cancel


Configuration of Consumer Settings without WSDL Document. [REDACTED]

Authentication Level: Basic

Authentication Settings

User ID / Password
 SAP Authentication Assertion Ticket
 X.509 SSL Client Certificate

X.509 SSL Client PSE

SSL Client PSE of transaction STRUST: 

Enter the name of the PSE created in STRUST

- If you use certificate-based authentication, select *X.509 SSL Client Certification* and choose the certificate you have uploaded to `STRUST`. You must configure this certificate in SAP Integration Suite, too. For that you create a service instance using the required `grant_type`. You create the service key using the certificate uploaded to the `STRUST`. For more information, see [Defining a Service Key for the Instance in the Cloud Foundry Environment](#)

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

1 Logical Port Name 2 Consumer Security **3 HTTP Settings** 4 SOAP Protocol 5 Identifiable Business Context 6 Operation Settings

Back Next **Finish** Cancel

URL Access Path

URL **URL components**

* Protocol: **HTTPS** *Look Up the SAP Cloud Integration*

* Host: **443**

Port: **443** *For each logical port, enter the path from the table above*

* Path: _____

Logon Language: **Language of User Context**

Proxy

Name of Proxy Host: _____

Port Number of Proxy Host: _____

User Name for Proxy Access: _____

Password of Proxy User: _____

Enter the proxy settings of your company's network

Transport Binding

Make Local Call: **No Call in Local System**

* Transport Binding Type: **SOAP 1.1**

Maximum Wait for WS Consumer: **0**

Optimized XML Transfer: **None**

Compress HTTP Message: **Inactive**

Compress Response: **True**

Port 443 is the standard port for the HTTPS protocol.

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

Overview / Manage Integration Content

Integration Content (489) Filter by Name or ID

1 Go to Operations View

2 Enter the integration flow name as search term

Deployed On: Feb 11, 2021, 11:49:57

Deployed By: _____

ID: _____

Version: 1.0.3

Package: _____

3 Copy the host name from here (the part between https:// and /cxf/)

Endpoints Status Details Artifact Details Log Configuration

https://[redacted]/cxf/[redacted]

Status Details

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.

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

The screenshot shows a configuration wizard with six tabs: 1 Logical Port Name, 2 Consumer Security, 3 HTTPSettings, 4 SOAP Protocol (selected), 5 Identifiable Business Context, and 6 Operation Settings. Below the tabs are buttons for Back, Next, Finish, and Cancel. The main content area is divided into three sections: **Message ID (Synchronous)** with a dropdown for Message ID Protocol set to 'Suppress ID Transfer'; **Metering of Service Calls** with dropdowns for Data transfer scope (Enhanced Data Transfer) and Transfer protocol (Transfer via SOAP header); and **Message Attachment Handling** with a dropdown for Process Attachments set to 'No'.

- 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 will show the following result (HTTP 405 Service Ping ERROR: Method Not Allowed).

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

- Remember to create logical port(s) 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

7 Testing the Integration

Describes the steps to test the integration of SAP Document and Reporting Compliance (eDocument) with the integration scenario from SAP Integration Suite.

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:
 - 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 Integration Suite.
 - If the status is green or yellow, but not `Created`, the communication with SAP Integration Suite was triggered and was probably successful. You can double-check if the message went through on the SAP Integration Suite 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.
 - If the status is red, an error happened during the submission of the eDocument. Select the *Interface Field* to be directed to the SAP Application Interface Platform where you can check the log. Any communication errors are displayed there.

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