

Portugal Series Registration for Self-Billing: Setting up SAP Cloud Integration (SAP S/4HANA, SAP ERP) Cloud Foundry Environment

Set up Integration package to enable communication with Portuguese tax authorities for Number Range Series Registration

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1 Introduction

You use SAP Cloud Integration to establish the communication with Portugal Tax Authority Web Service to perform Register, Cancel and Finish operations on Document Series Identifiers. This document describes the setup steps that you must perform in your SAP S/4HANA or SAP ERP system and 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 S/4HANA or SAP ERP 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

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 S/4HANA or SAP ERP system 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 S/4HANA or SAP ERP documentation and to the relevant tax authority information, respectively.

2 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 [Portugal ATCUD Legal Change for Self-Billing](#).
2. You have set up your tenant as follows:
 - o If you have subscribed to Process Integration, perform all the initial setup steps described the [Initial Setup of SAP Cloud Integration in Cloud Foundry Environment](#).
 - o If you have subscribed to [Integration Suite](#), perform all the initial setup steps described in [Initial Setup](#).

3 Configuration Steps in SAP Integration Suite

Required steps in SAP Integration Suite.

3.1 General Information

The package *SAP S/4HANA Integration with Portugal Tax Authority for Self-Billing* contains the following integration flow.

Integration Flow Name in WebUI	Project Name/Artifact Name
<i>Manage Series Validation Code for Self-Billing</i>	com.sap.GS.Portugal.ManageSeriesValidationforSelfBilling

3.2 Adding User Credentials

Context

To authenticate the request to the tax authority you need to add user credentials to the security materials.

Procedure

- Go to **Operations View** > **Security Material** > **Add** > **User Credentials** and enter the User ID and password to connect to the tax authority with the following alias:

User Credentials

Value	Description
<taxcode>_portugaldocseriescredentials	To connect to the tax authorities' services

Note

- Enter your tax code as a prefix for the credential.

Create User Credentials

Name: *

Description:

Type: * ▾

User: *

Password:

Repeat Password:

[Deploy](#) [Cancel](#)

- VAT number can have multiple sub-users, but one CI tenant can handle only one sub-user.

Related Information

- [Configuring Integration Flow](#)

3.3 Deploying Key Pairs

Context

You deploy the key pairs to the *SAP Integration Suite* tenants. You need separated key pairs for testing and production environments.

Procedure

1. Contact SAP to request the necessary key pairs for authentication, which include `portugaldocseriestestdgita.p12` and `portugaldocseriesproddgita.p12`. Refer Note [3137385](#) to download the Key Pair.
2. Upload the new private key in the *Keystore app*. Go to **Operations View > Keystore > Add > Key Pair**.

You must upload the `portugaldocseriestestdgita.p12` and `portugaldocseriesproddgita.p12` files to the keystore of the tenant. Create the alias for the key pair according to the following naming convention:

Value	Description
portugaldocseriestestdgita.p12	Test environment
portugaldocseriesproddgita.p12.	Production environment

Related Information

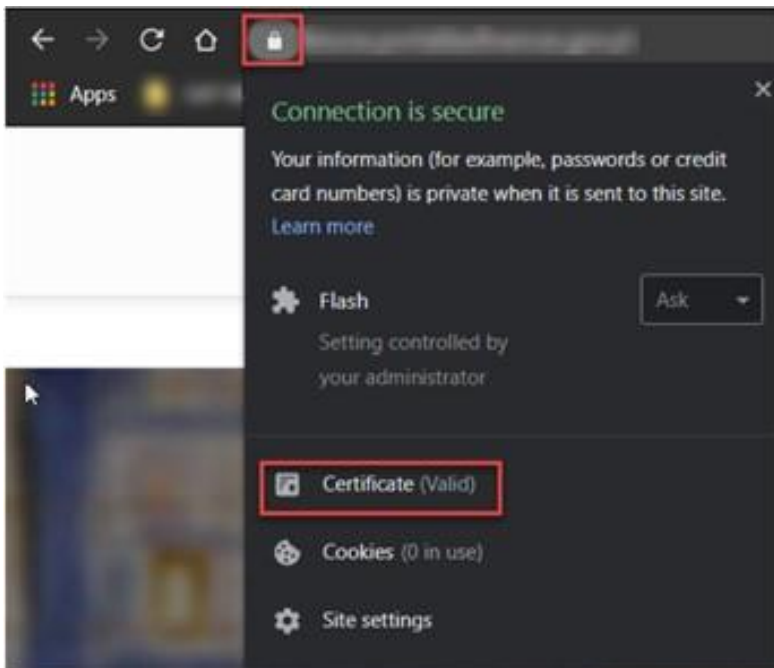
- [Adding User Credentials \[page 7\]](#)
- [Configuring Integration Flow \[page 10\]](#)

3.4 Uploading the Root Certificate

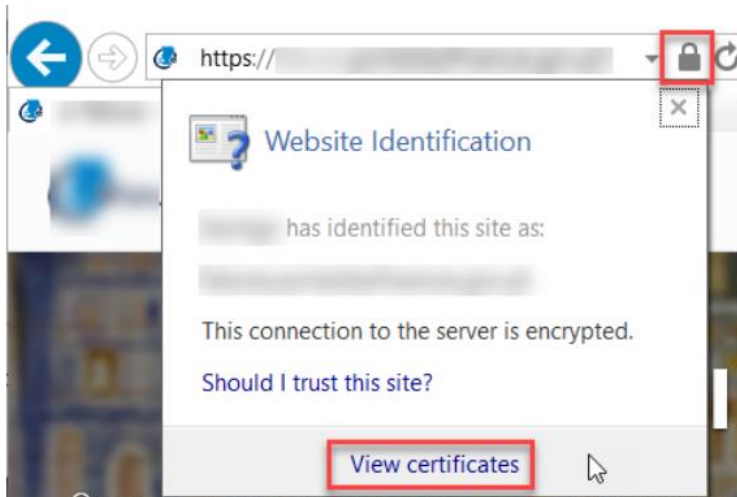
Provides a description on how to upload the root certificate to the keystore of your SAP Integration Suite Integration tenant.

Procedure

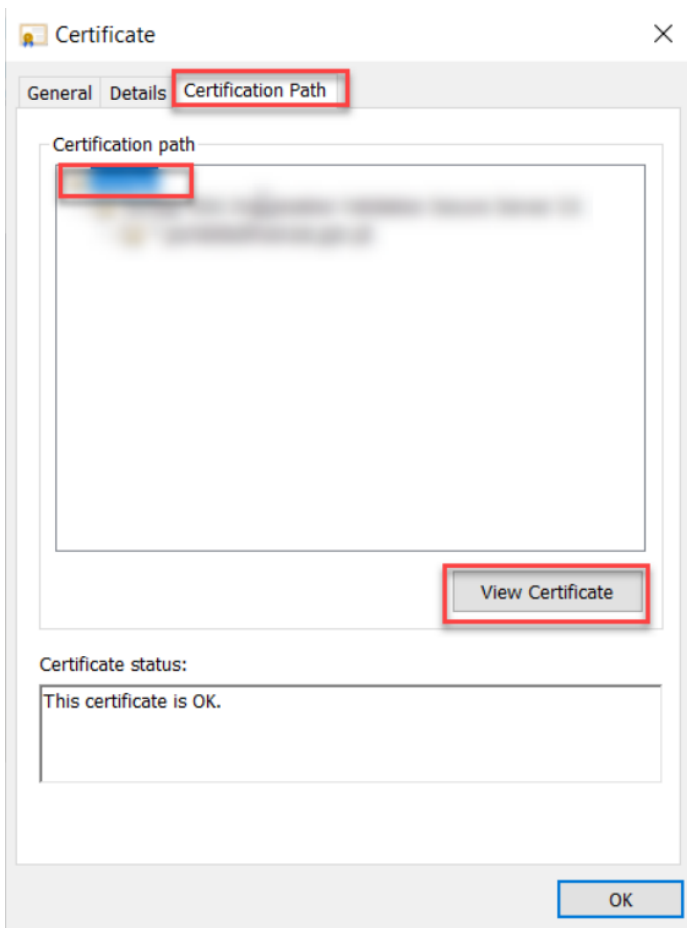
1. Go to the web site of the tax authorities (Portal das Finanças).
2. Choose the icon next to the URL and select Certificate.
 - o In Chrome (Recommended)



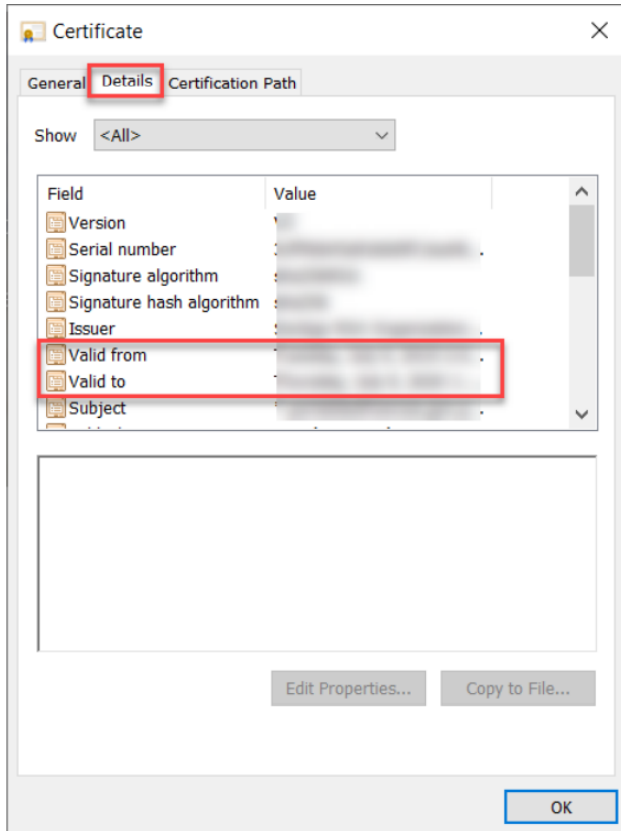
- o In Internet Explorer



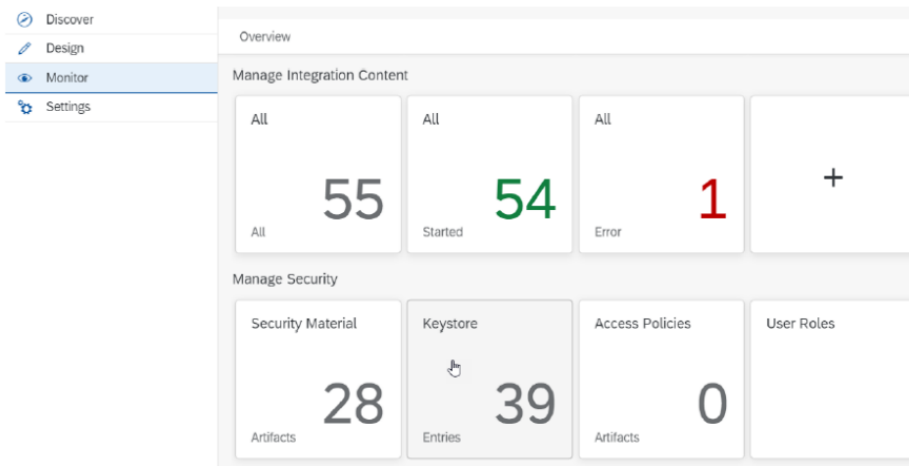
3. In the *Certificate* window, go to the *Certification Path* tab, choose the root certificate (first in the tree) and then choose *View Certificate*.



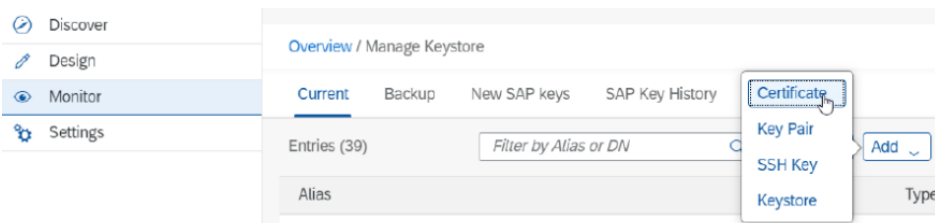
4. Go to the *Details* tab:
To ensure that you are downloading the correct Certificate, check the values of *Valid from* and *Valid to*.



5. If everything is up to date, choose *Copy to File* and save it to your local directory.
6. Go to *Keystore* on your SAP Integration Suite tenant to upload the saved root certificate.



7. Choose *Monitor*, select *Certificate*, and then *Add*.



Add Certificate

Alias: *

File: *

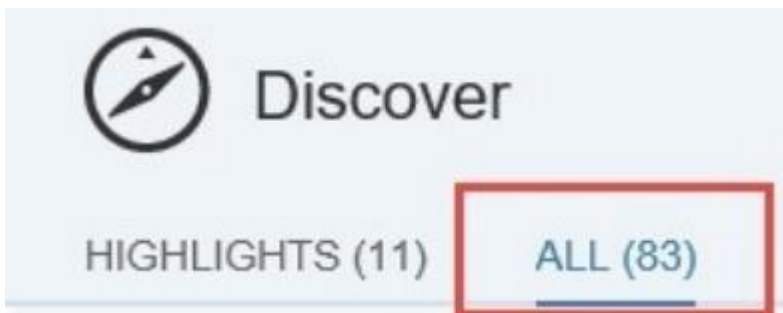
3.5 Copying Integration Flow

Context

Copy the integration flow in the package *SAP S/4HANA Integration with Portugal Tax Authority for Self-Billing* to the target tenant as follows:

Procedure

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



3. Search for *SAP S/4HANA Integration with Portugal Tax Authority for Self-Billing*. Select the Package and choose *Copy*.



Related Information

- [Configuring Integration Flow](#)

3.6 Configuring Integration Flow

Context

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

Procedure

1. There is one Artifact in the integration package *SAP S/4HANA Integration with Portugal Tax Authority for Self-Billing*.
2. Choose **► Actions ► Configure** for the artifact you are configuring.
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: 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.

Value	Description
TEST	To use the test system of the tax authority
PROD	To use the prod system of the tax authority

Configure "Manage Series Registration for Self-Billing"

Sender **More**

Type: All Parameters

<TEST/PROD>: TEST

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 *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 "Manage Series Registration for Self-Billing"

Sender More

Sender: ERP

Adapter Type: SOAP

Connection

Address: /manage_self-billing_series_registration

User Role: ESBMessaging.send

- Based on your mode of deployment, choose *TEST* or *PROD*.
- Choose *Save* and *Deploy* to deploy it actively to server. Note down the URLs of the endpoints for each service.

Configure "Manage Series Registration for Self-Billing"

Sender More

Type: All Parameters

<TEST/PROD>: TEST

i 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 Series Validation process does not support or require message attachments (for example, scanned copies of invoices) in any stage of processing and communication.

4 Configuration Steps in SAP ERP or SAP S/4HANA

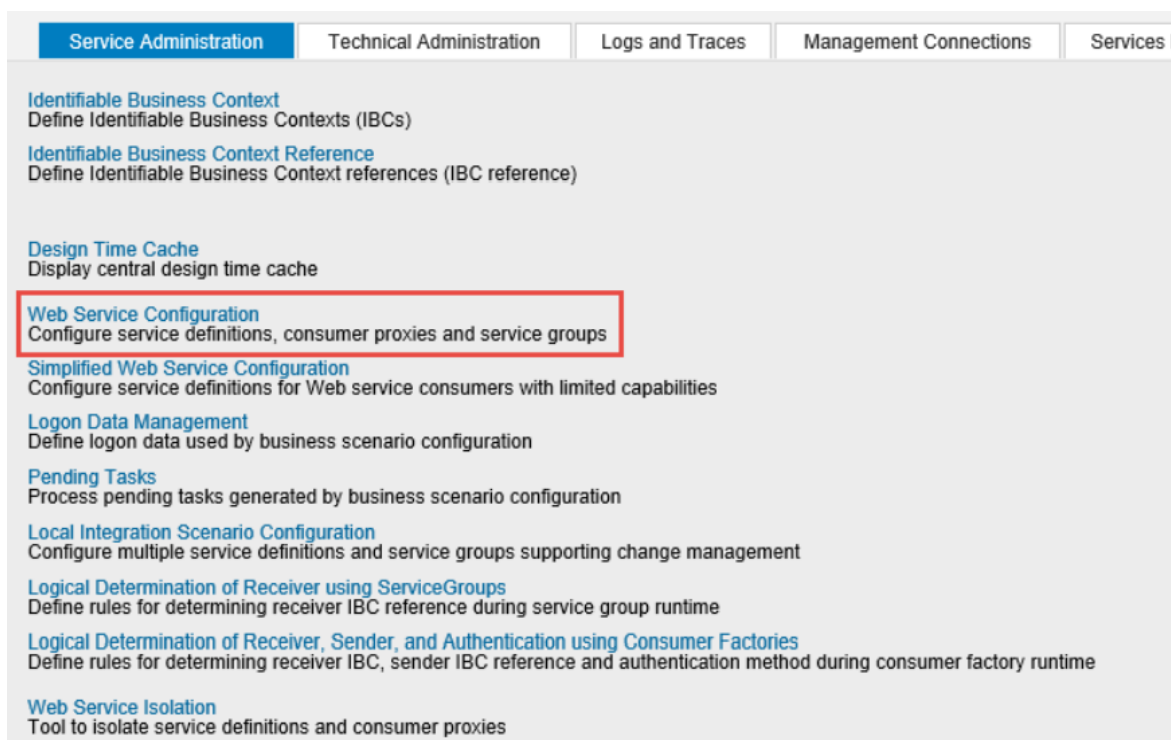
The following sections tell you the necessary configuration you do in SAP S/4HANA or SAP ERP.

4.1 Create Logical Ports in SAP ERP or SAP S/4HANA

Proxies must be connected to the SAP Integration Suite tenant via logical ports. In the SAP ERP or SAP S/4HANA test system, the logical ports are configured to connect to the test SAP Integration Suite tenant. In the productive SAP ERP or SAP S/4HANA system, the logical ports are configured to connect to the productive SAP Integration Suite tenant.

Proceed as follows:

1. In your SAP ERP or SAP S/4HANA system, go to transaction `SOAMANAGER` and select [Web Service Configuration](#).



2. Search for the proxy for Portugal with the search term `CO_GLO_SB_PT_PORTUGAL_SERIES_V`.

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

3. In the result list, select a proxy and create a logical port for it. Choose *Create* and *Manual Configuration*.

Define Logical Ports

Create Set Log Port Default Activate

WSDL Based Configuration

Manual Configuration

Process Integration Runtime

Local Shortcut Configuration

Service Registry Based Configuration

Template Based Configuration

WSDL based Configuration with Template

4. Enter a logical port name and a description. Select the *Logical Port is Default* checkbox.

1 2 3 4 5 6

Logical Port Name Consumer Security HTTPSettings SOAP Protocol Identifiable Business Context Operation Settings

Back Next Finish Cancel

General Configuration Settings

Logical Port Name:*

Description:

Logical Port is Default:

5. The *Consumer Security* configuration depends on the security being used for the SAP ERP or SAP S/4HANA - SAP Integration Suite communication.
- o If you use the basic authentication, enter the value of the **ClientID** for *Username*, and the value of client secret for *Password*. You create these values for your service instance in *SAP Integration Suite*. See [Creating Service Instances](#).

New Manual Configuration of Logical Port for Consumer Proxy

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=

Authentication Level: Basic

Authentication Settings

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

User ID/Password

User Name:
Password:

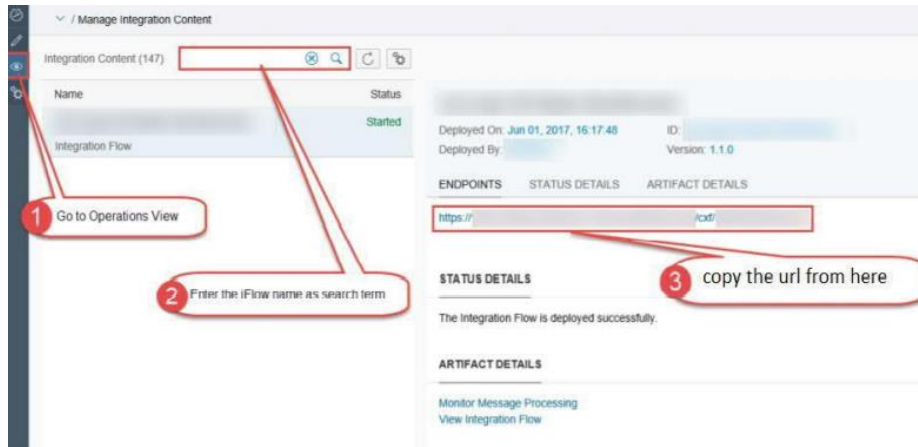
- o If you use certificate-based authentication, choose *X.509 SSL Client Certification* and select the certificate you have uploaded to STRUST. You must configure this certificate in SAP Integration Suite too. For that you create a service instance using the required grant type. You create the service key using the certificate uploaded to the STRUST. For more information, see [Defining a Service Key for the Instance in the Cloud Foundry Environment](#). (Refer Section 4.2)

6. On the *HTTP Settings* tab page, select the URL components radio button and make the following settings:

Setting	Value
Protocol	Select HTTPS
Host	Enter the host name of the integration flow that you want to communicate with
Port	Enter 443, which is the standard port for the HTTPS protocol
Path	Find the path of the related integration flow from your SAP Cloud Integration tenant or SAP Integration Suite tenant

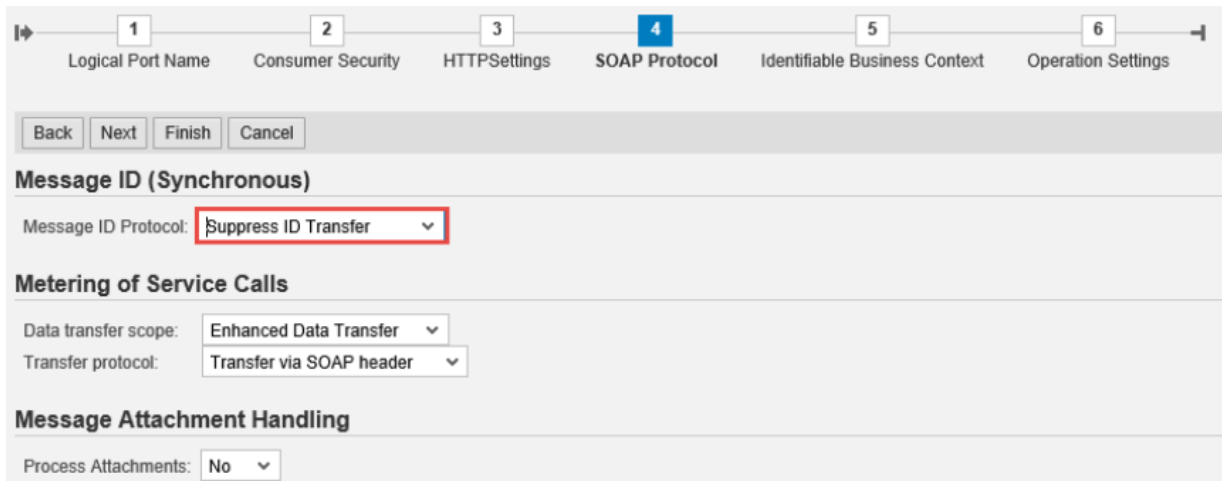
To find URL, go to *SAP Cloud Integration* Web UI, do as follows:

1. From the menu on the left, choose the *Operations view*.
2. Choose *Manage Integration Content (All)*.
3. Search for the integration flow for the scenario you are configuring.
4. Find the host name from the Endpoints tab. The endpoint URL is a concatenation of host name and path: `https://<host name>/<path>`.



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 *Messaging* tab page, set the value of the *Message ID Protocol* field to **Suppress ID Transfer**.



- No settings are required in the tabs *Identifiable Business Context* and *Operation Settings*. Just choose *Next* and then *Finish*.

4.2 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 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*.
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.

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