



Integration Guide | PUBLIC
2022-07-13

Portugal Transport Registration Setting Up SAP Integration Suite (SAP S/4HANA Cloud) - Cloud Foundry

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1 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 describes the setup steps that you must perform in your SAP S/4HANA Cloud tenant 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 Cloud tenant 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.

i 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.

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 S/4HANA Cloud tenant 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 Cloud documentation and to the relevant tax authority information, respectively.

2 Prerequisites

Before you start with the activities described in this document, ensure that 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 in Cloud Foundry Environment](#).
- If you have subscribed to Integration Suite, perform all the initial setup steps described in [Initial Setup](#).

i Note

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

3 Configuration Steps in SAP Integration Suite

Required steps in SAP Integration Suite.

3.1 General Information

The package **SAP Document and Reporting Compliance: Electronic Transport Registration for Portugal** contains the following integration flow:

Integration Flow for Document and Reporting Compliance for Portugal


| Integration Flow Name in WebUI | Project Name/Artifact Name |
|--------------------------------|---|
| Manage Transport Registration | com.sap.GS.Portugal.ManageTransportRegistration |

3.2 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 `edocumentportugalttestdgita.p12` and `edocumentportugalproddgita.p12`. For that, open a customer incident under the `CA-GTF-CSC-EDO-PT` component.
2. Upload the private key in the *Keystore* app. Go to **Operations View** > **Keystore** > **Add** > **Key Pair** 

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

| Value | Description |
|----------------------------|------------------------|
| edocumentportugaltestdgita | Test environment |
| edocumentportugalproddgita | Production environment |

Related Information

[Adding User Credentials \[page 6\]](#)

[Configuring Integration Flow \[page 12\]](#)

3.3 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 |
|------------------------------------|---|
| <tax_code>_edocportugalcredentials | To connect to the tax authorities services in test environment. |

Note

Enter your tax code as a prefix for the credential.

Edit User Credentials

***Name:**

Description:

***Type:** ▼

***User:**

Password:

Repeat Password:

Deploy Cancel

Related Information

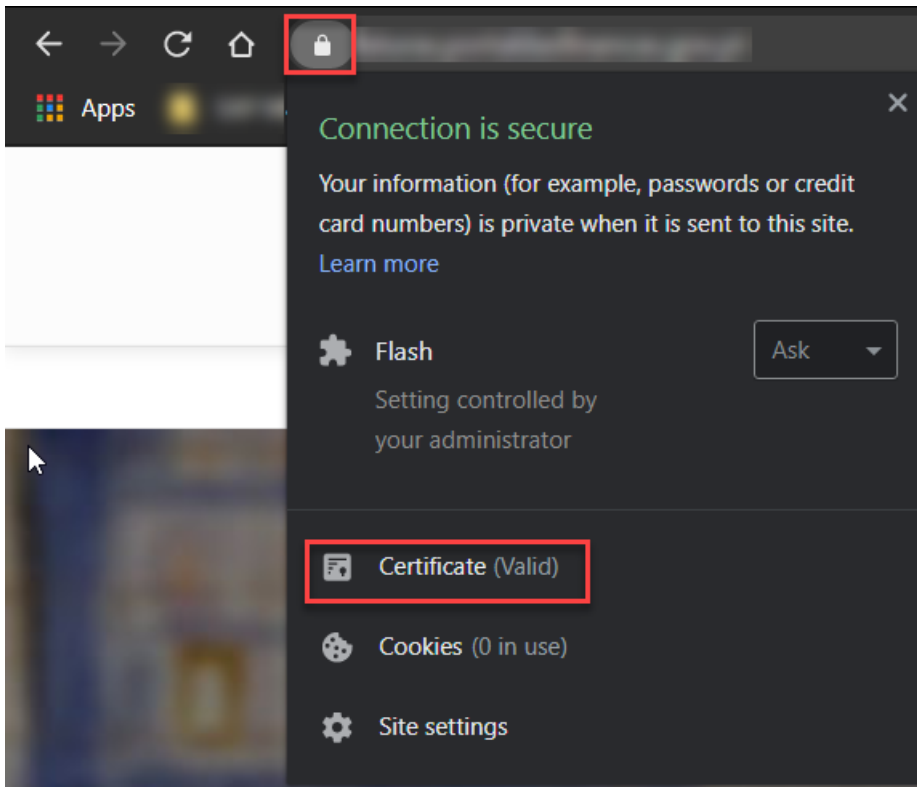
[Configuring Integration Flow \[page 12\]](#)

3.4 Uploading the Root Certificate

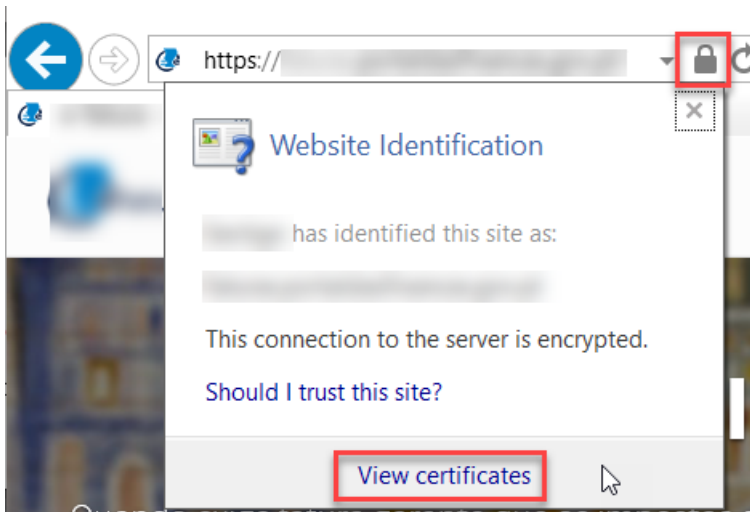
Provides a description on how to upload the root certificate to the keystore of your SAP Integration Suite Integration tenant.

Procedure

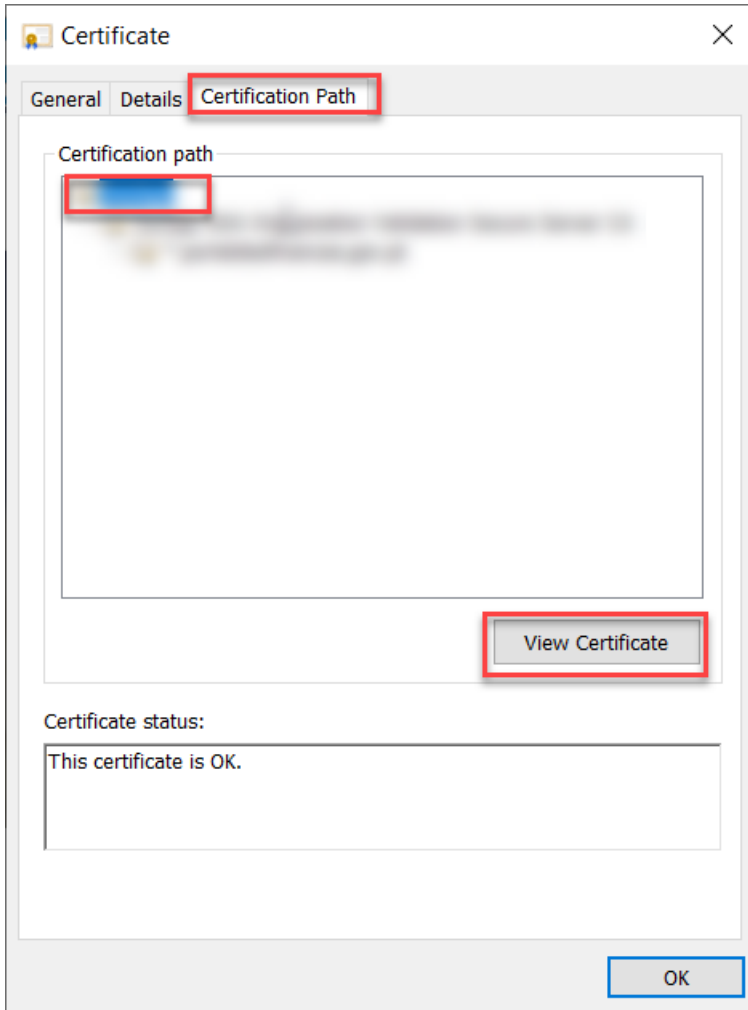
1. Go to the web site of the tax authorities (Portal das Finanças).
2. Choose the icon next to the URL and select *Certificate*:
 - In Chrome (recommended):



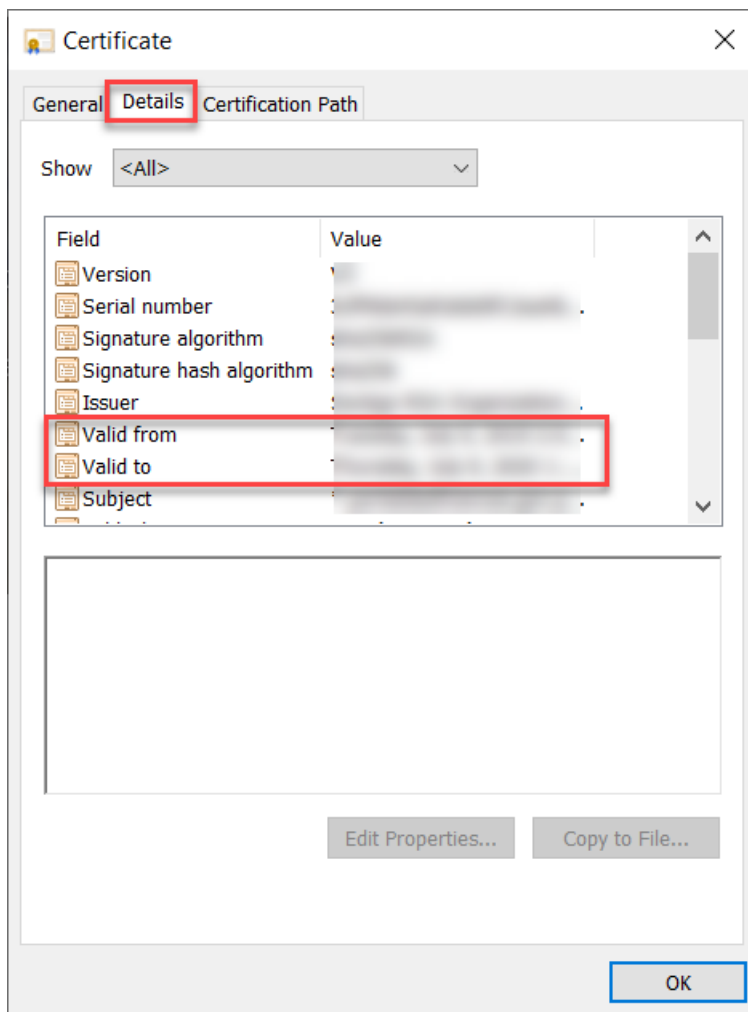
- o In Internet Explorer:



3. Go to the *Certification Path* tab, choose the root certificate (first in the tree) and then select *View Certificate*:

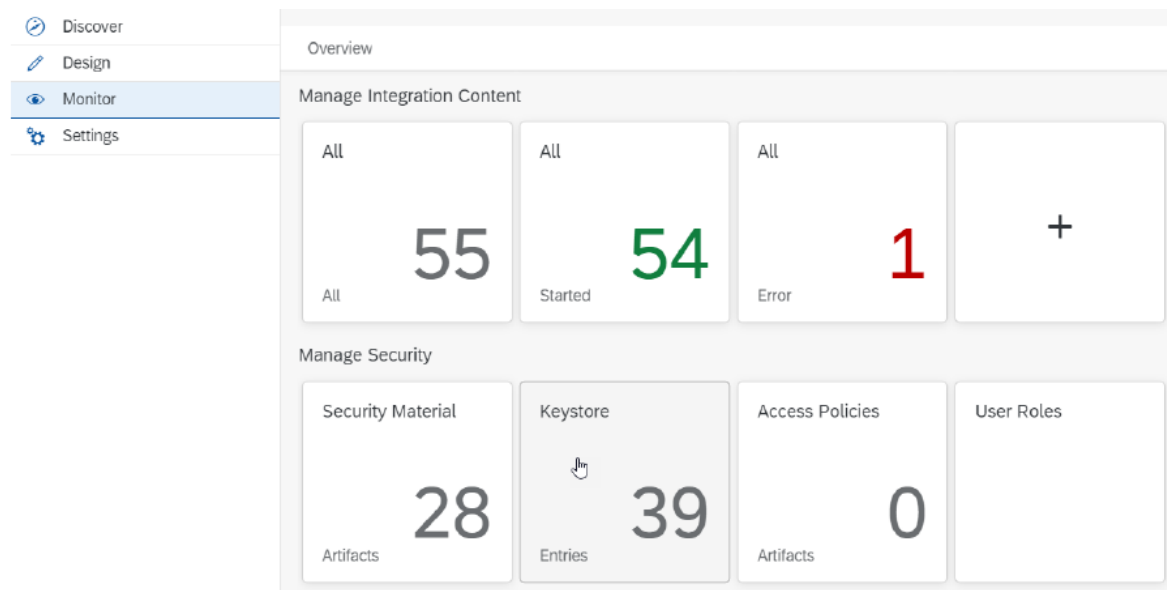


4. Go to the *Details* tab:

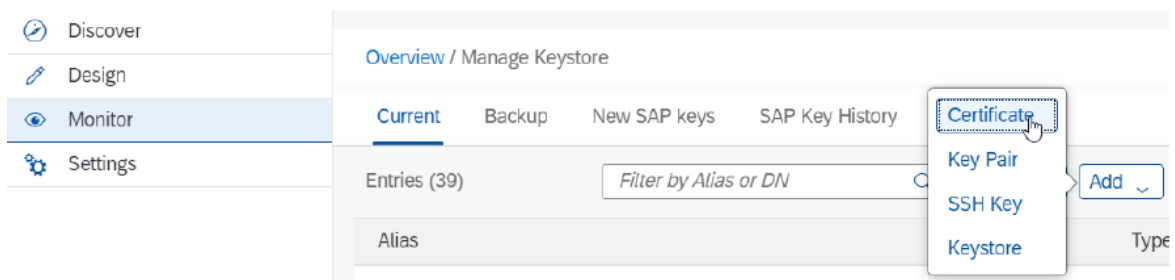


To ensure that you are downloading the correct certificate, check the values of *Valid from* and *Valid to*.

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*.



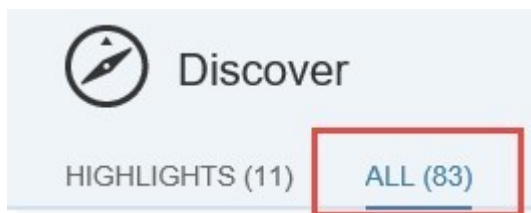
3.5 Copying Integration Flow

Context

Copy the integration flow in the package SAP Document and Reporting Compliance: Electronic Transport Registration for Portugal 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 Transport Registration for Portugal** .
4. Select the package and choose *Copy*.

Related Information

[Configuring Integration Flow \[page 12\]](#)

3.6 Configuring Integration Flow

Context

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

Procedure

1. There is one *Artifact* in the integration package SAP Document and Reporting Compliance: Transport Registration for Portugal.
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:

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

Configure "Manage Transport Registration"

Sender [More](#)

Type:

Mode:

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 Transport Registration"

[Sender](#) More

Sender:

Adapter Type:

Connection

Address:

User Role:

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 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.

4 Configuration Steps for SAP S/4HANA Cloud

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

4.1 Configuring a Communication System

Create a communication system that represents your SAP Integration Suite tenant.

Prerequisites

- Live SAP Integration Suite test or productive tenant must be available.
- Communication systems and communication arrangements are not transportable. Configure them in both your quality and production systems.
- The SAP S/4HANA Cloud user, who configures communication systems and communication arrangements, must be assigned to the business catalog role `SAP_BCR_CORE_COM` (*Communication Management*) for accessing communication management apps.

Procedure

1. Log in to your S/4HANA Cloud tenant.
2. Find and launch the *Communication Systems* app. Choose *New*.



A *New Communication System* dialog box appears.

3. Create a system ID and give it a descriptive name.

New Communication System

*System ID:

*System Name:

Create
Cancel

4. Choose *Create*.

An editing screen for the communication system appears.

5. In the *Technical Data* section, enter the host name and HTTPS port of your SAP Integration Suite tenant.

To find the host name for your tenant, in SAP Integration Suite, do as follows:

1. From the menu on the left, choose the *Operations* view.
2. Select *Manage Integration Content* (All).
3. Search for the integration flow for the scenario you are configuring.
4. Find the host name in the *Endpoints* tab.

The endpoint URL is a concatenation of host name and path: **https://<host name>/<path>**.

6. In the *User for Outbound Communication* section, choose +.

Contact Information

Contact Person Name: Phone Number:

E-Mail:

OAuth 2.0 Identity Provider

Enabled:

User for Inbound Communication +

| Authentication Method | User Name |
|-----------------------|-----------|
| No data | |

User for Outbound Communication +

| Authentication Method | User Name/Certificate/Client ID |
|-----------------------|---------------------------------|
| No data | |

7. Select an authentication method, which is used to connect to your SAP Integration Suite tenant. Proceed as follows:

New Outbound User

*Authentication Method: **User Name and Password** (dropdown menu open)

*User Name:

*Password:

Cancel

- If you select the authentication method *User Name and Password*, for *User Name* enter the value for the **clientid** and for *Password*, the value for the **clientsecret**. You create these values for your service instance in SAP Integration Suite. For more information, see [Creating Service Instances](#).

New Outbound User

*Authentication Method: **User Name and Password** (dropdown)

*User Name:

*Password:

Create Cancel

- If you select the authentication method *SSL Client Certificate*, select the *Default Client Certificate* type and choose *Create*.

New Outbound User

*Authentication Method: **SSL Client Certificate** (dropdown)

Certificate Type: **Default Client Certificate** (dropdown)

Create Cancel

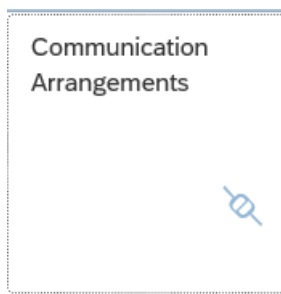
8. Choose *Save*.

4.2 Configuring Communication Arrangement

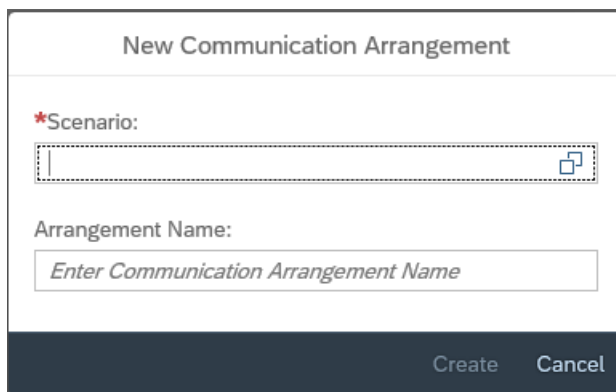
Configuration steps for SAP S/4HANA Cloud Communication Arrangement.

Procedure

1. Login to your S/4HANA Cloud tenant with the Cloud User.
2. Find and launch the application *Communication Arrangements*.



3. Choose *New*. In the new pop-up window, enter the scenario `SAP_COM_0494` (which is the one designated for communication with the tax authority via SAP Integration Suite package) and an Arrangement Name. For Communication Arrangement name it is recommended to choose a name like `SAP_COM_0494_<name of SAP Integration Suite tenant>`.

A screenshot of the 'New Communication Arrangement' pop-up window. The window has a title bar 'New Communication Arrangement'. Below the title bar, there is a field labeled '*Scenario:' with a dropdown menu. Below that, there is a field labeled 'Arrangement Name:' with a text input field containing the placeholder text 'Enter Communication Arrangement Name'. At the bottom of the window, there are two buttons: 'Create' and 'Cancel'.

4. Choose *Create*.
5. In the new window, choose the communication system created in the previous step and the authentication method, relevant to the communication system.
 - If the authentication is by User ID, then select *User Name and Password* from the *Outbound Communication* list.

Common Data

Arrangement Name: Own System:

*Communication System:

Outbound Communication [Download](#) [Supported Authentication Methods](#)

*User Name: Authentication Method:

- If the authentication is by client certificate, then download this certificate by choosing [Download Authentication Certificate](#):

Outbound Communication [Download](#) [Supported Authentication Methods](#)

Certificate*: Authentication Method:

[Download Authentication Certificate](#)

[Download Encryption Certificate](#)

[Download Signing Certificate](#)

You must configure this certificate in SAP Integration Suite too. For that you create a service instance using the required grant_type as explained in [Creating a Service Instance in the Cloud Foundry Environment](#). After the instance creation, you create the service key using the certificate uploaded to the SAP S/4HANA Cloud as explained in [Defining a Service Key for the Instance in the Cloud Foundry Environment](#).

6. Scroll down and enter the path part for your integration flow URL for all outbound services.

Outbound Services

▼ Portugal Transport Registration [Download WSDL](#)

Service Status: Active

Application Protocol:

Port:

Path:

Service URL:



7. Choose [Save](#).

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