



Integration Guide | PUBLIC
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Portugal Transport Registration Setting Up SAP Cloud Integration (S/4HANA Cloud) - Neo Environment

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

3 Prerequisites

3.1 Set Up SAP Cloud Integration Tenants

SAP Cloud Integration test and productive tenants are live and users in the tenants have the rights to copy the integration package and to configure and deploy the integration flow.

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

When your tenants are provisioned, you receive the Tenant Management (TMN) URL. You need this URL for the configuration of the SAP S/4HANA Cloud.

4 Configuration Steps in SAP Cloud Integration

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

4.1 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

4.2 Deploying Key Pairs

Context

You deploy the key pairs to the SAP Cloud Integration 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 `edocumentportugaltestdgita.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
<code>edocumentportugaltestdgita</code>	Test environment
<code>edocumentportugalproddgita</code>	Production environment

Related Information

[Adding User Credentials \[page 7\]](#)

[Copying Integration Flow \[page 8\]](#)

[Configuring Integration Flow \[page 9\]](#)

4.3 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
<code><tax_code>_edocportugalcredentials</code>	To connect to the tax authorities services in test environment.

i Note

Enter your tax code as a prefix for the credential.

Edit User Credentials

***Name:**

Description:

***Type:** User Credentials ▼

***User:**

Password:

Repeat Password:

Deploy
Cancel

Related Information

[Copying Integration Flow \[page 8\]](#)

[Configuring Integration Flow \[page 9\]](#)

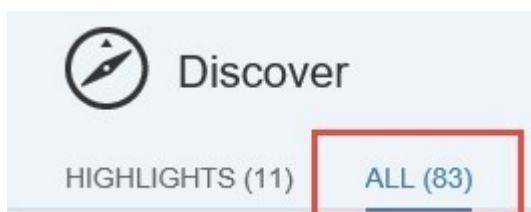
4.4 Copying Integration Flow

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/catalog).
2. Choose **Discover** > **All** > **Discover**.



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 \[page 9\]](#)

4.5 Configuring Integration Flow

Context

You configure the package that you have copied as described in [Copying Integration Flow \[page 8\]](#).

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: All Parameters ▼

Mode: 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 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.

5 Configuration Steps for SAP S/4HANA Cloud

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

5.1 Configure Communication System

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

Prerequisites

- Live SAP Cloud Integration 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 a business role with the business catalog `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.

For example, if the host name of your SAP Cloud Integration tenant is `v1234-tmn.avt.eu1.hana.ondemand.com`, you can use `EDOC_v1234` as the system ID.

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 Cloud Integration tenant.

You can find the host name for your SAP Cloud Integration tenant, as follows:

1. From the menu on the left, choose *Monitor*.
2. Select *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 composition of an endpoint URL is **https://<host name>/<path>**.

Endpoints Status Details Artifact Details Log Configuration

https://v1234-
v1234-tmn.avt.eu1.hana.ondemand.com/soap/sa/soapui/

WSDL 📄

WSDL without policies ↓ 📄

See the following example:

EDOC_V1234

Changed By: administrator John Editing Status: Draft
 Changed On: 08.10.2018, 12:13

General Data

*System ID: Notes:

*System Name:

Technical Data

General

*Host Name: UI Host Name:

Logical System: Business System:

HTTPS Port: Use Cloud Connector:

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

The screenshot shows a configuration page with the following sections:

- Contact Information:** Includes input fields for 'Contact Person Name', 'E-Mail', and 'Phone Number'.
- OAuth 2.0 Identity Provider:** Includes an 'Enabled' checkbox.
- User for Inbound Communication:** A table with columns 'Authentication Method' and 'User Name'. The current entry shows 'No data' for both.
- User for Outbound Communication:** A table with columns 'Authentication Method' and 'User Name/Certificate/Client ID'. The current entry shows 'No data' for both. A red box highlights a '+' icon in the top right corner of this section.

- Select an authentication method, which is used in connecting to your SAP Cloud Integration tenant. Proceed as follows:

The 'New Outbound User' dialog box is shown with the following fields and options:

- *Authentication Method:** A dropdown menu is open, showing options: 'User Name and Password' (selected), 'SSL Client Certificate', 'OAuth 1.0', 'OAuth 2.0', and 'None'.
- *User Name:** A text input field.
- *Password:** A text input field.
- Buttons: 'Cancel' and 'Create' (partially visible).

- If you select the authentication method *User Name and Password*, enter the name and password of your SAP Cloud Integration tenant user that allows communicating with SAP S/4HANA Cloud.

The 'New Outbound User' dialog box is shown with the following fields and options:

- *Authentication Method:** A dropdown menu is set to 'User Name and Password'.
- *User Name:** A text input field.
- *Password:** A text input field.
- Buttons: 'Create' and '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 ▼

Certificate Type: Default Client Certificate ▼

Create
Cancel

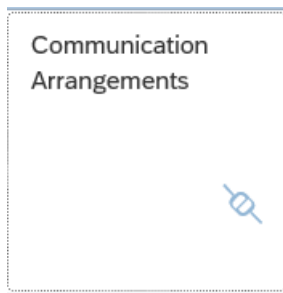
8. Choose *Save*.

5.2 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*.

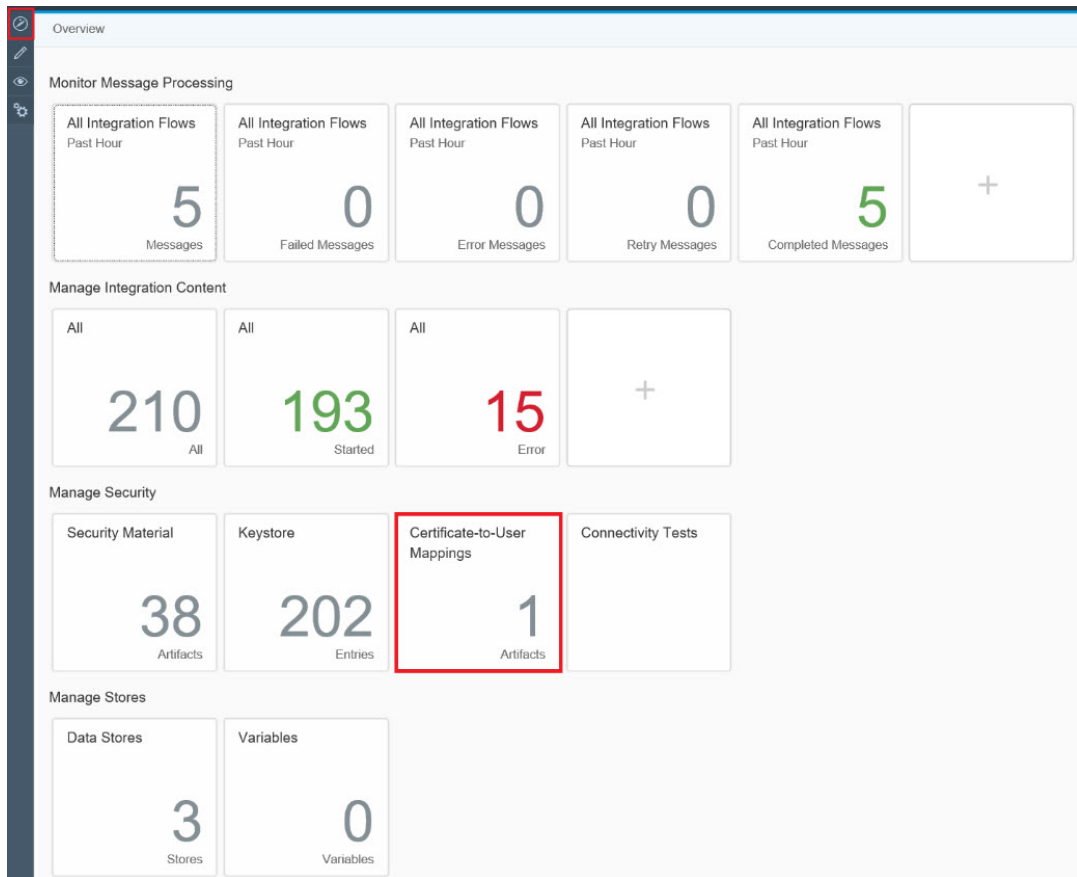


3. Choose *New*. In the new pop-up window, enter the scenario `SAP_COM_0494` (which is the one designated for communication with the tax authority via SAP Cloud Integration package) and an Arrangement Name. For Communication Arrangement name it is recommended to choose a name like `SAP_COM_0494_<name of SAP Cloud Integration tenant>`, for example, `SAP_COM_0494_V1234` for tenant host name beginning with v1234-tmn.

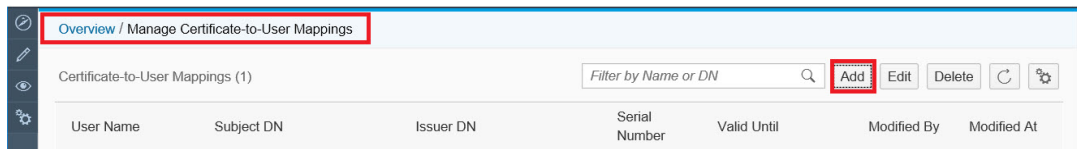
4. Choose [Create](#).
5. In the new window, choose the communication system created in the previous step (for example, `EDOC_V1234`) and the authentication method, relevant to the communication system.
 - If the authentication is by User ID, then select [User Name and Password](#) from the [Outbound Communication](#) list.

- If the authentication method is Default Client Certificate, you need to map the certificate to a user of your tenant with the the `ESBMessaging.send` role.
 1. Download SSL Client Certificate here and save it locally.

2. Choose [Overview](#) [Certificate-to-User Mappings](#).



3. Choose *Add*.



4. Enter a user name with `ESBMessaging.send` role, upload the SSL Client certificate from Communication Arrangement and choose *OK*.

Add Certificate-to-User Mapping

*User Name:

*Certificate:

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

Outbound Services

▼ Portugal Transport Registration

Service Status: Active

Application Protocol: SOAP

Port:

Path:

Service URL:



7. Choose *Save*.

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