

INTEGRATION GUIDE

SAP S/4HANA Cloud - Neo Environment
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PUBLIC

Portugal Series Registration: Setting Up SAP Cloud Integration (SAP S/4HANA Cloud) Neo 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 external systems and perform register cancel and finalize operations on document series. 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.

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.

2 Prerequisites

2.1 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.

3 Configuration Steps in SAP Cloud Integration

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

3.1 General Information

The package *SAP S/4HANA Integration with Portugal Tax Authority Web Service* contains the following integration flow.

Integration Flow Name in WebUI	Project Name/Artifact Name
Manage Series Validation Code	com.sap.GS.Portugal.ManageSeriesValidation

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 credentials.

Create User Credentials

Name: *

Description:

Type: * ▾

User: *

Password:

Repeat Password:

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

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

Related Information

- [Configuring Integration Flow](#)
- [Copying 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

2. Contact SAP to request the necessary key pairs for authentication, which include `portugaldocseriestestdgita.p12` and `portugaldocseriesproddgita.p12`. For that, open a customer incident under the FI-LOC-LO-PT component.
1. 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](#)
- [Configuring Integration Flow](#)
- [Copying Integration Flow](#)

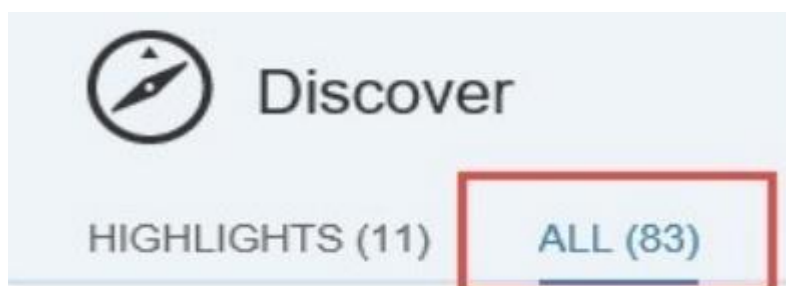
3.4 Copying Integration Flow

Context

Copy the integration flow in the package *SAP S/4HANA Integration with Portugal Tax Authority Web Service* 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 Web Service*. Select the Package and choose *Copy*.

Related Information

- [Configuring Integration Flow](#)

3.5 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 Web Service*.
2. Choose **Actions** > **Configure** for the artifact you are configuring.
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 *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 Validation Code"

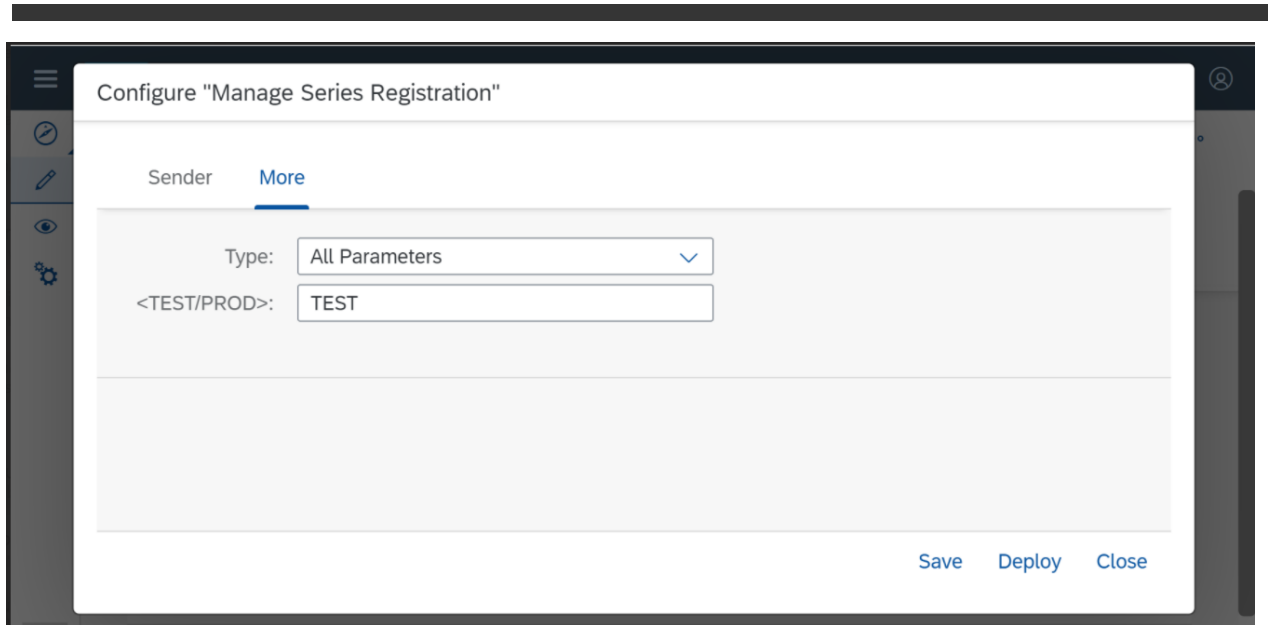
The screenshot shows the configuration interface for the 'Manage Series Validation Code' artifact. The 'Sender' tab is active, displaying the following configuration:

- Sender:** ERP
- Adapter Type:** SOAP
- Address:** /manage_series_validation
- User Role:** ESBMessaging.send (with a 'Select' button)

At the bottom right of the configuration area, there are buttons for 'Save', 'Deploy', and 'Close'.

4. Choose **Configure** > **More** tab (in some versions it may be Externalized Parameters).
 - Based on your mode of deployment, choose *TEST* or *PROD*.

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



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 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 S/4HANA Cloud

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

4.1 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 `SVC_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 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 from 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 in connecting to SAP Integration Suite tenant. Proceed as follows:

New Outbound User

Authentication Method: * User Name and Password ▼

User Name: * User Name and Password

Password: * SSL Client Certificate

OAuth 1.0

OAuth 2.0

None

[Cancel](#)

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

New Outbound User

Authentication Method: *

User Name: *

Password: *

[Create](#) [Cancel](#)

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

New Outbound User

Authentication Method: *

Client Certificate: *

[Upload New Certificate](#) [Create](#) [Cancel](#)

8. Choose *Save*.

4.2 Configure 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*.

Communication Arrangements



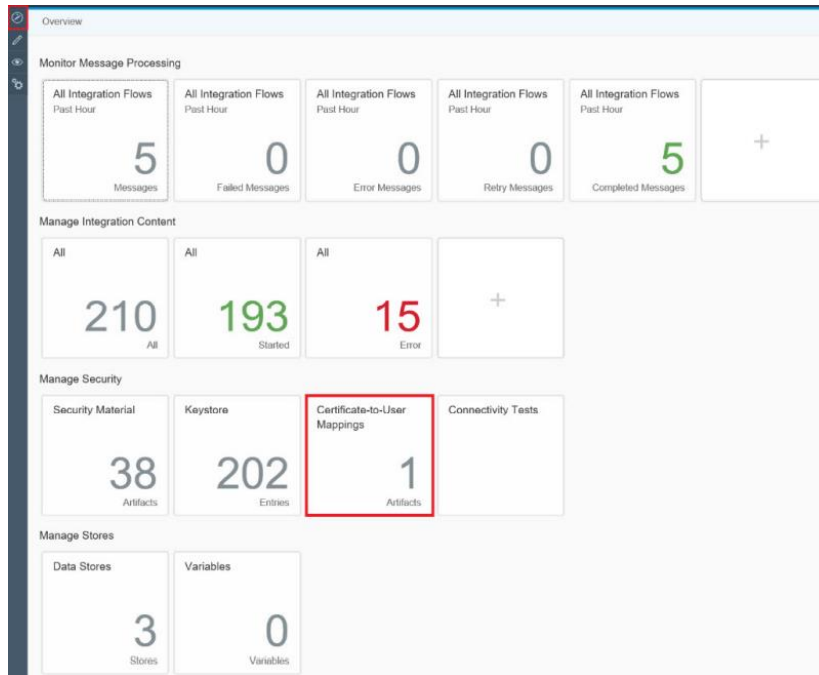
3. Choose *New*. In the new pop-up window, enter the scenario **SAP_COM_0814** (which is the one designated for communication with the tax authority via SAP Integration Suite package) and an Arrangement Name.

For Communication Arrangement name it is recommended to choose a name like **SAP_COM_0814_<name of SAP Integration Suite tenant>**.

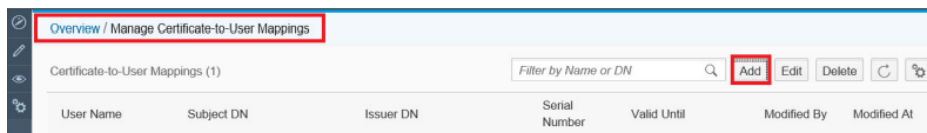
4. Choose *Create*.
5. In the new window, choose the communication system created in the previous step and the authentication method, relevant to the communication system.
 - o If the authentication is by User ID, then select Username and Password from the Outbound Communication list.

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

2. Choose [► Overview ► Add 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.

▼ Portugal Series Validation Code Communication

Service Status: Active

Port:

Path:

Use WSRM:

7. Choose *Save*.

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Material Number:

