

# Portugal Series Validation- Setting Up SAP Cloud Integration (SAP S/4HANA Cloud) Cloud Foundry Environment

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

---

# Contents

1	Introduction .....	3
2	Prerequisites .....	5
3	Configuration Steps in SAP Integration Suite .....	6
3.1	General Information .....	6
3.2	Adding User Credentials.....	6
3.3	Deploying Key Pairs.....	7
3.4	Copying Integration Flow .....	8
3.5	Configuring Integration Flow .....	9
4	Configuration Steps in SAP S/4HANA Cloud .....	10
4.1	Configure Communication System.....	10
4.2	Configure Communication Arrangement .....	12

---

## Revision History

Date	Notes/Comments/Changes
07-10-2025	Added information about the new artifact "Manage Series Validation Code for Self-Billing". Refer to the "Configuring Integration Flow" chapter for more details on installing the new artifact.
17-01-2023	Initial Publication

---

# 1 Introduction

You use SAP Cloud Integration to establish communication with external systems and perform register cancellation and finalize operations on document series. This document outlines the setup steps required for your SAP S/4HANA Cloud tenant and SAP Integration tenant to ensure seamless integration between the systems.

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 also be responsible for maintaining the integration content and certificates/credentials on the SAP Integration Suite tenant.

## Note

This document describes the functionality provided by the Integration Package itself, specifically the artifacts deployed in the SAP Integration Suite tenant. It is possible, however, that in the SAP S/4HANA Cloud tenant system, access to this functionality may be only partially implemented. Additionally, it is likely that the tax authority servers do not provide all the services described in this document. Please refer to the relevant SAP S/4HANA Cloud tenant documentation and the corresponding tax authority information. This document also describes the additional integration flow for Self-Billing.

---

## 2 Prerequisites

Before beginning the activities described in this document, ensure that the following prerequisites are met.

You have set up your tenant as follows:

- If you have subscribed to Process Integration, perform all the initial setup steps described in the [Initial Setup of SAP in Cloud Foundry Environment](#).
- If you have subscribed to Integration Suite, complete all the initial setup steps described in the Initial Setup section

## 3 Configuration Steps in SAP Integration Suite

The following sections outline the necessary configuration steps for the SAP Integration Suite.

### 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
<a href="#">Manage Series Validation Code</a>	com.sap.GS.Portugal.ManageSeriesValidation
<a href="#">Manage Series Validation Code for Self-Billing</a>	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

1. 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

#### 1 Note

- o 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 with WSE authorization. Sub-users are created in the tax authority's portal. More information can be found in the Tax Authorities documentation related to the series management.

## Related Information


- [Configuring Integration Flow \[page 7\]](#)

## 3.3 Deploying Key Pairs

### Context

You deploy the key pairs to the [SAP Integration Suite](#) tenants. You need separate 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
-------	-------------

<a href="#">portugaldocseriestestdgita.p12</a>	Test environment
<a href="#">portugaldocseriesproddgita.p12</a>	Production environment

## Related Information

- Adding User Credentials [page 5]
- Configuring Integration Flow [page 7]

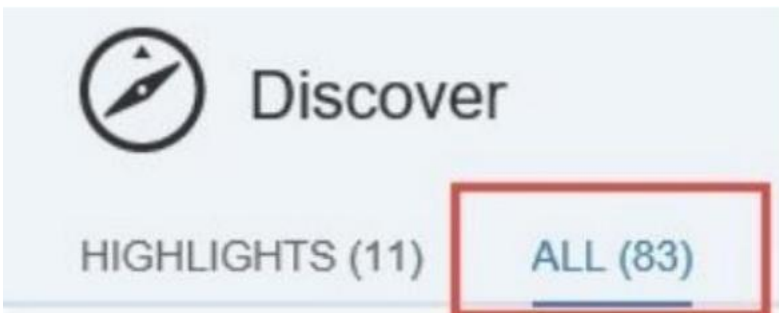
## 3.4 Copying Integration Flow

### Context

Copy the integration flow in the package [SAP S/4HANA integrating 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 integrating with Portugal Tax Authority Web Service](#). Select the Package and choose [Copy](#).



## Related Information

- [Configuring Integration Flow \[page 8\]](#)

## 3.5 Configuring Integration Flow

### Context

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

### Procedure

1. The integration package contains two artifacts. You can select the integration package that best suits your requirements.
  - [Manage Series Registration](#)
  - [Manage Series Registration for Self-Billing](#).
2. Choose [▶ Actions ▶ Configure ▶](#) for the artifact you are configuring. For configuring the normal series integration flow, you can choose the Manage Series Registration package, and for self-billing, you can choose the Manage Series Registration for Self-Billing package.
3. Choose [▶ Configure ▶ Sender ▶](#) tab.
  - Use the [Address](#) parameter to configure the address of the integration package. Usually, you don't have to change this field. If you change the field, ensure that you 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.
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 test 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.

#### 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

- A live SAP Cloud Integration test or a 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.

## 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.

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

1. From the menu on the left, choose [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 composition of an endpoint URL is `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 your SAP Cloud Integration 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

- If you select the authentication method Username 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

User Name: \*

Password: \*

Create Cancel

- If you select the authentication method SSL Client Certificate choose a [Client Certificate](#) and choose [Create](#).

New Outbound User

Authentication Method: \* SSL Client Certificate

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. Locate and launch the Communication Arrangements application.

## 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 the SAP Cloud Integration package) and an Arrangement Name. For Communication Arrangement, it is recommended to choose a name like **SAP\_COM\_0814\_<name of SAP cloud Integration Tenant>**.

New Communication Arrangement

Scenario: \*  
Enter Scenario

Arrangement Name:  
Enter Communication Arrangement ...

Create 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.
  - o If the authentication is by User ID, then select Username and Password from the Outbound Communication list.

Common Data

Arrangement Name: [redacted]

\*Communication System: [redacted] Display

Own System: OLO8BBN

Outbound Communication

\*User Name: [redacted]

Authentication Method: User ID and Password

Download Supported Authentication Methods

- o If the authentication is by Client certificate, then download this certificate by choosing **Download Authentication Certificate**.

Outbound Communication

Certificate: \* Client Default

Authentication Method: User ID and Password

Download Supported Authentication Methods

Download Authentication Certificate  
Download Encryption Certificate  
Download Signing Certificate

- o 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.

Integration Flow	Path
Portugal Series Validation Code Communication	/cxf/manage_series_validation
Portugal Self-Billing Series Validation Code Communication	/cxf/manage_self-billing_series

7. Choose [Save](#).



[www.sap.com/contactsap](http://www.sap.com/contactsap)

© 2016 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark> for additional trademark information and notices.

Material Number:

