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eDocument Peru - SAP Cloud Platform Integration Setup Guide (SAP ERP/S/4HANA)

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1 Introduction

You use SAP Cloud Platform Integration to establish the communication with external systems and transfer to them the electronic documents you have created using the eDocument solution. This document lists the required setup steps you perform in the SAP ERP or SAP S/4HANA system* and the SAP Cloud Platform Integration tenant so that the integration between the systems work.

The setup steps are typically done by an SAP Cloud Platform Integration consulting team, which is responsible for configuring the SAP back-end systems and the connection with SAP Cloud Platform Integration. This team may be also responsible for maintaining the integration content and certificates/credentials on the SAP Cloud Platform 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 Platform Integration tenant. It may happen, however, that in the SAP back-end systems 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 back-end systems documentation and to the relevant tax authority information, respectively.

For the sake of simplicity in this guide, we mention SAP back-end systems when something refers to both SAP ERP and SAP S/4HANA.

2 Prerequisites

2.1 Installation of eDocuments Solution for Peru

You have installed and configured the eDocument solution in your test and productive systems. If you did not install the latest support package for your system, see the SAP Note [2031941](#) for the list of SAP Notes to be installed for Peru. For generic information about the installation of the eDocument Framework, refer to the SAP Note [2134248](#) for the installation guide of SAP Notes.

Application Help for eDocument

For more information about features and country availability of each solution, see the application help in the product page for eDocuments. https://help.sap.com/viewer/p/SAP_E_DOCUMENT. To find the latest published documentation for eDocument for your country, follow the steps below:

1. Choose from *Version* the release you are interested in.
2. To get to the documentation for a given country, under *Application Help* choose *View All* and select your country.

2.2 Registration at SUNAT

You have completed registration at SUNAT and you have sent the homologation documents to SUNAT (for more information, refer to “Manual de Homologación” from SUNAT).

You must have the following data available:

- Certificate used for digital signature (private key + password)
- Certificates (for example, **GeoTrust Global CA**) for connecting to the SUNAT web service deployed on the HCI tenants' keystores.
- SOL secondary key (**SUNAT Operaciones en Línea - Clave Secundaria**) registered with profile “Envío de documentos electronicos – Grandes emisores”.
- Username and password that belong to the SOL secondary key.

i Note

In case there are any issues with SSL, you can open SUNAT's web service URL in a browser and check the certification path.

2.3 Set Up SAP Cloud Platform Integration Tenants

SAP Cloud Platform Integration test and production tenants are live and users in the tenants have the rights to copy the integration package and to configure and deploy the integration flows (iFlows).

When your tenants are provisioned, you receive an email with the Tenant Management (TMN) URL. You need this URL for the configuration of the SAP back-end systems.

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

If you are a first-time user, you must first set up your users (members) and their authorizations in the SAP Cloud Platform cockpit.



2.4 Set Up of Secure Connection

You establish a trustworthy SSL connection to set up a connection between the SAP back-end systems and the SAP Cloud Platform Integration.

Inbound HTTP connections are not required for Italy. Outbound HTTP connections are required, and are supported with specific, public certificates.

You use SAP ERP Trust Manager (transaction `STRUST`) to manage the certificates required for a trustworthy SSL connection. The certificates include public certificates to support outbound connections, as well as trusted certificate authority (CA) certificates to support iFlow authentication.

Refer to the system documentation for more information regarding the certificate deployment to SAP back-end systems. In case of issues, refer to the following SAP notes:

- [2368112](#)  Outgoing HTTPS connection does not work in AS ABAP
- [510007](#)  Setting up SSL on Application Server ABAP

For more information, refer to [Operations guide for SAP Cloud Platform Integration](#)

i Note

If you encounter any issues in the information provided in the SAP Cloud Platform Integration product page, open a customer incident against the `LOD-HCI-PI-OPS` component.

Client Certificate

If you are using a client certificate, this must be signed by one of the root certificates supported by the load balancer. A self-signed certificate is not suitable. For more information see [Load Balancer Root Certificates Supported by SAP](#).

3 General Information

3.1 iFlows for Peru Electronic Invoicing

The package eDocument: Electronic Invoicing for Peru contains the following six iFlows:

iFlow Name in WebUI	Project Names/Artifact Names
Generic Invoice	com.sap.GS.Peru.GenericInvoice
Get Status Invoice and Summary	com.sap.GS.Peru.GetStatusInvoice
Summary Documents	com.sap.GS.Peru.SummaryDocuments
Tax Certificate	com.sap.GS.Peru.TaxCertificate
Voided Documents	com.sap.GS.Peru.VoidedDocuments

3.1.1 iFlow Modes

Each iFlow in the package has four different ways of operating, the so-called modes. A mode controls the logic of the iFlow and the endpoint to which the message is sent. For each iFlow, you set up a mode in the externalized parameter called mode.

The following four modes exist:

iFlow Mode	iFlow Mode Name	Description
PROD	Production	<ul style="list-style-type: none">• Intended for use in the productive SAP Cloud Platform Integration tenant• Connects to the SUNAT web service for production• Invoice, Credit Note and Debit Note: Boletas are only signed, but not sent to SUNAT• Available for all iFlows

iFlow Mode	iFlow Mode Name	Description
HMLG	Homologation	<ul style="list-style-type: none"> • Intended for use in the SAP Cloud Platform Integration tenant that is used for the homologation process • Connects to the SUNAT web service for homologation • Available for all iFlows
TEST	Test	<ul style="list-style-type: none"> • Intended for use in the SAP Cloud Platform Integration test tenant • Connects to the SUNAT web service for testing • Invoice, Credit Note and Debit Note: Boletas are only signed, but not sent to SUNAT <p>Available for all iFlows</p>

When you import the iFlows to the SAP Cloud Platform Integration tenant the first time, the TEST mode is the standard setting. For information about how to change the mode, see [Download iFlows to Tenant Workspace and Adapt \[page 10\]](#).

4 Configuration Steps

4.1 Deploy Certificates and Credentials to Tenants

You use the same certificate for the digital signature for both the test and productive SAP Cloud Platform Integration tenants.

The credentials (username + password) for the WS UsernameToken authentication differ depending on the endpoint of the iFlow which is determined by the mode. The credentials for mode **TEST** differ from the credentials of modes **HMLG** and **PROD**. Mode **SIGN** does not require credentials.

You must make sure that the certificates (digital signature + SSL) and the credentials are available and deploy the signature certificate (as private key with an alias) in the SAP Cloud Platform Integration tenants' `JAVA_KEYSTORE`. Deploy the credentials as a **CREDENTIALS** object (with an alias).

So that the iFlows can be updated with minimal adaptation effort, the alias used for the private key and for the credential must be as follows:

- *Private Key alias:* **perusignaturekey**
- *HMLG/PROD Credentials alias:* **peruwstokencredentials**
- *TEST Credentials alias:* **peruwstokencredentials_test**

The correct format for the username in the *HMLG/PROD* credentials is **<CompanyTaxCode><SOL Secondary Key Username>**.

For example, the company has Tax Code (RUC) 21544512515; SOL secondary key username is **USER1** and SOL secondary key password is **MYPASS**. The *HMLG/PROD* credentials will be:

- Username: **21544512515USER1**
- Password: **MYPASS**

In the *TEST* environment, the credentials are independent from the SOL secondary key. The username is always **<CompanyTaxCode>MODDATOS**. The password is always **MODDATOS**.

For example, the company has Tax Code (RUC) 21544512515. The correct *TEST* credentials are:

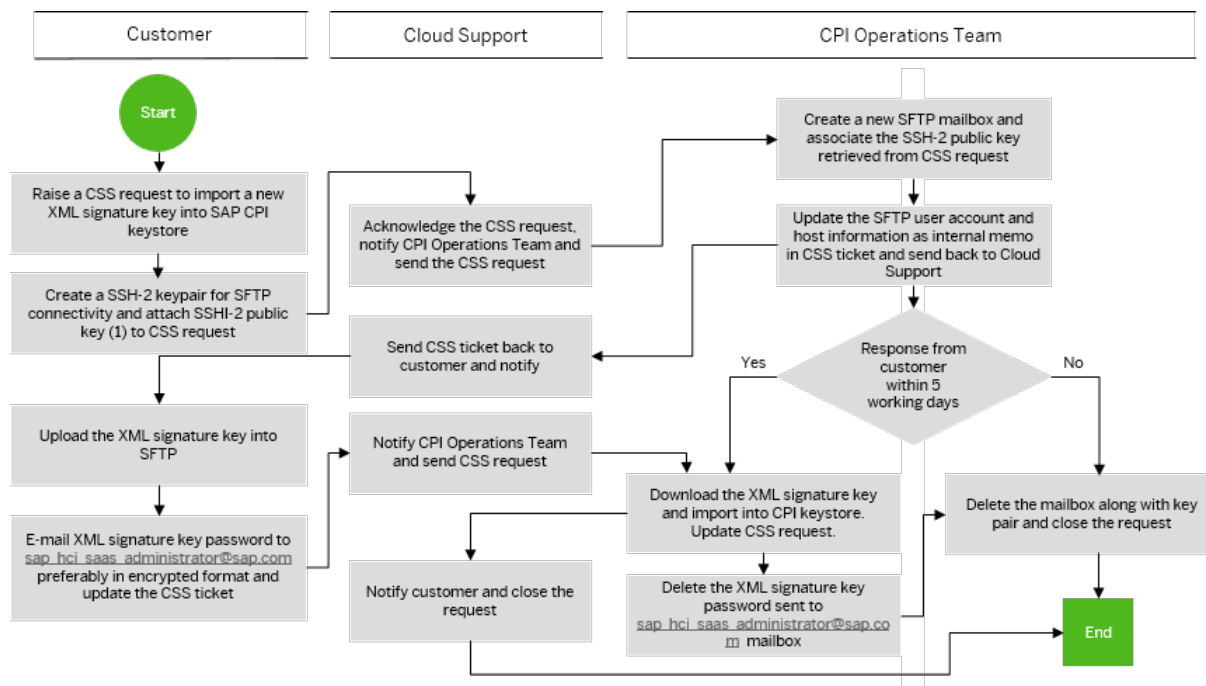
- Username: **21544512515MODDATOS**
- Password: **MODDATOS**

i Note

The credentials for both **HMLG/PROD** and **TEST** modes must be available at the same time on the SAP Cloud Platform Integration tenant, independently of the mode that you have configured for an iFlow. You have to ensure that both credentials **peruwstokencredentials** and **peruwstokencredentials_test** are available at any time. If you deploy only one of the credentials, the iFlows will not start but show an error in the *Runtime Status*.

4.1.1 Deploy Private Key in Keystore

To deploy the private key in the keystore, the customer needs to raise an incident. The process is depicted in the figure below and is followed by an explanation.



1. The customer or the implementation partner (requestor) who has to add the XML signature key to the tenant key store raises a ticket to the Cloud Operations support component. The XML signature key or the password to be used must not be added to the request.
2. The customer attaches the SSH2 public key generated from the Key Generation Procedure. This public key will be used to enable the accessibility to the SFTP user account.
3. Cloud Support acknowledges the request, notifies the Cloud Operations team and sends the request (if possible).
4. The Cloud Operations team member (processor) creates an SFTP user account in the SAP SFTP server. The public key attached in the request will be associated with this user account.
5. The Cloud Operations team member updates the SFTP user account and host name in the request and sends back the same to Cloud Support.

i Note

If the Cloud Operations team does not get any response in the request from the customer or Cloud Support within 5 working days after update from the Operations team, the mailbox will be deleted and the request will not be processed further.

6. Cloud Support sends back the ticket to the customer and notifies regarding the update in the request.
7. The customer accesses the SFTP user account and then adds the XML signature key to the 'inbox' folder.
8. The customer updates the request accordingly and sends an encrypted (preferably) e-mail to `sap_hci_saas_administrator@sap.com` with the password required to access the XML signature key.
9. Cloud Support notifies the Cloud Operations team and sends the request (if possible).

10. The Cloud Operations team member accesses the SFTP server and downloads the XML signature key from the user account and updates this in the tenant key store accordingly. The Cloud Operations team member also updates the request and sends it back to Cloud Support.
11. Cloud Support notifies the customer and closes the request.
12. The Cloud Operations team member deletes the XML signature password mail sent to `sap_hci_saas_administrator@sap.com`. The team member also deletes the SFTP user account which results in the deletion of the XML signature keys added by the customer.

4.1.2 Deploy Credentials

Follow the steps below to deploy the credentials:

1. In your browser, go to the WebUI of the tenant (URL: `<Tenant URL>/itspaces/#shell/catalog`).
2. From the menu in the upper left corner, choose *Monitor*.
3. Click on the *Security Material* tab, click *Add* and select *User Credentials*.
4. Enter the name as `peruwstokencredentials` and enter the username and password provided by SUNAT.

4.2 Download iFlows to Tenant Workspace and Adapt

Download the iFlows and maintain the parameters for each iFlow as described below.

Download iFlows

Download all iFlows in the package *eDocument: Electronic Invoicing for Peru* to the target tenant as follows:

1. In your browser, go to the WebUI of the tenant (URL: `<Tenant URL>/itspaces/#shell/catalog`).
2. From the menu in the upper left corner, choose *Discover*.
3. Click on the *eDocument: Electronic Invoicing for Peru* package.
4. In the lower right corner, choose *Copy*. If package already exist, overwrite it.

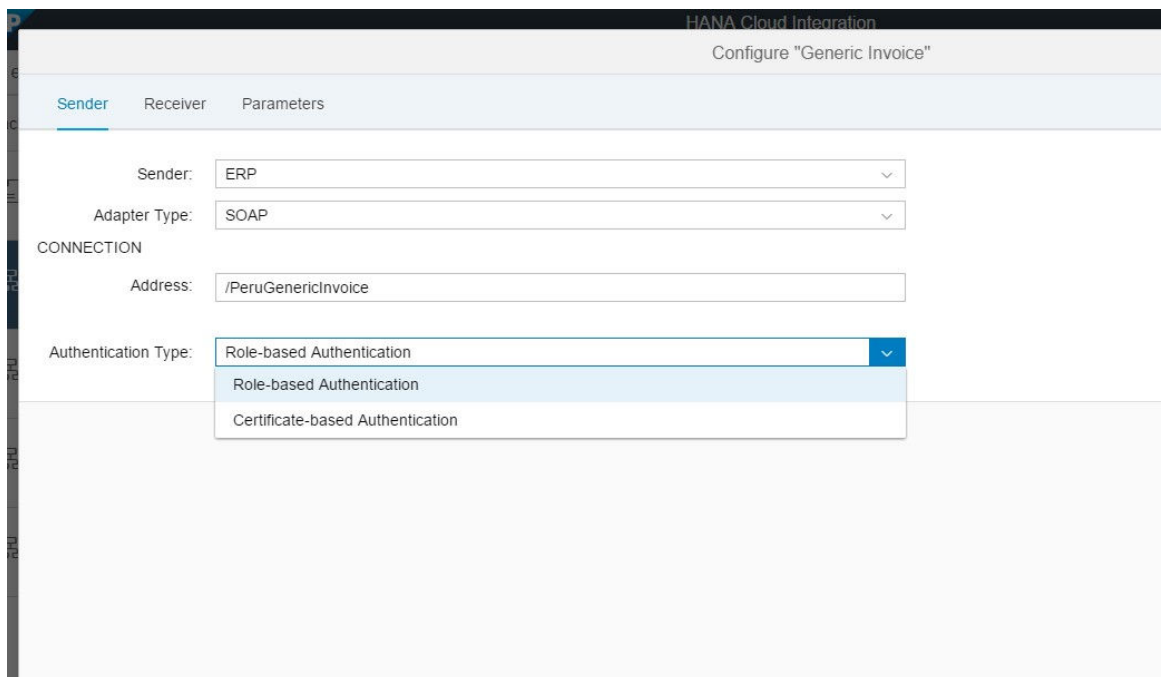
Maintain Parameters

You must maintain are several parameters for each iFlow. To change the parameters in the WebUI, do the following:

1. From the menu in the upper left corner, choose *Design*.
2. Click on the *eDocument: Electronic Invoicing for Peru* package and then on *Package Content*.
3. For the iFlow that you want to change, choose **► Actions ► Configure ◀**.
4. After changing the parameters, choose *Save*.

You must configure the following parameters:

- **Sender** tab
 - **Address:** If you are deploying the same iflow for multiple company codes, you need to change the address for the second company onwards to generate unique URL for each company code.
 - **Authentication Type:** **Role-based Authentication** or **Certificate-based Authentication**
 - For **Certificate-Based Authentication** only: **Subject DN** and **Issuer DN** of client certificates



- **Receiver** tab

Receiver	Address
SUNAT_Production	<ul style="list-style-type: none"> ○ Invoices: https://e-factura.sunat.gob.pe/ol-ti-it/pfegem/billService?wsdl ○ WTC & CTC: https://www.sunat.gob.pe/ol-ti-itemision-otroscpe-gem/billService?wsdl (Retention and Perception Service) ○ Get Status: https://www.sunat.gob.pe/ol-it-wsconscpegem/billConsultService?wsdl (Invoice, Boleta Summary & Void Get Status)
SUNAT_Homologation	https://www.sunat.gob.pe/ol-ti-itcpgem-sqa/billService
SUNAT_Test	<ul style="list-style-type: none"> ○ Invoices: https://e-beta.sunat.gob.pe/ol-ti-itcpgem-beta/billService ○ WTC & CTC: https://e-beta.sunat.gob.pe/ol-ti-itemision-otroscpe-gem-beta/billService?wsdl ○ Get Status: Only available for production

Sender	Receiver	Parameters
	Receiver: SUNAT_Production	
	Adapter Type: SOAP	
CONNECTION		
	Address: https://www.sunat.gob.pe/ol-ti-itcpegem/billService	

- Parameters tab
 - `signer_id`: <RUC (Tax Code)>
 - `signer_name`: <Name in the certificate used for the digital signature>
 - `mode`: <Mode of the iFlow: PROD | HMLG | TEST | SIGN >

Sender	Receiver	Parameters
		signer_id: [RUC]
		signer_name: [COMPANY NAME]
		mode: TEST

i Note

The iFlow for Get Status, Invoice and Summaries does not have the parameters `signer_id` and `signer_name`.

4.3 Copy and Adapt iFlows for Multiple Companies with Same Tenant

You must follow the steps below if you want to support multiple companies in the same SAP Cloud Platform Integration tenant. These settings are optional.

For supporting multiple companies in the same SAP Cloud Platform Integration tenant, you must create multiple copies of the iFlows and adapt them to each company. You do the changes in the Eclipse tool.

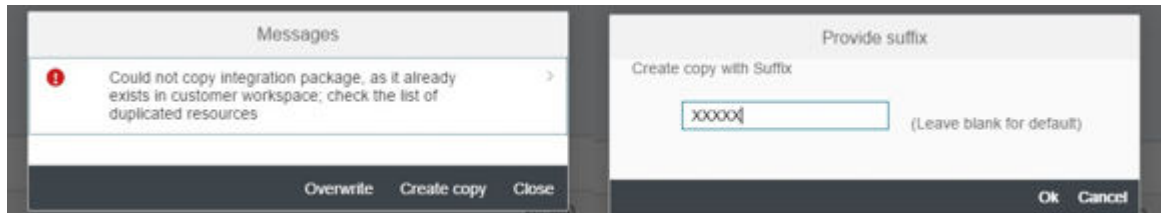
Prerequisites

You have installed the SAP Cloud Platform Integration software in the Eclipse tool. For more information, see <https://tools.hana.ondemand.com/#hci>

Copying the Integration Package with an Alias Name

1. In your browser, go to the WebUI of the tenant (URL: <Tenant URL>/itspaces/#shell/catalog).
2. From the menu in the upper left corner, choose *Discover*.
3. Click on the *eDocument: Electronic Invoicing for Peru* package.
4. When the systems asks whether to overwrite or create a copy, choose the *Create copy* option and enter the company code.

In the example below, XXXXX stands for the company code:



5. In your browser, go to the WebUI of the tenant (URL: <Tenant URL>/itspaces/#shell/catalog).
6. From the menu in the upper left corner, choose *Design*.
7. Click on the *eDocument: Electronic Invoicing for Peru XXXX (copied with alias)* package and then on *Package Content*.
8. Select all artifacts, choose **Actions** > *Download* . Specify a local folder.
9. Open Eclipse in *Integration Designer* perspective.
10. On the *Project explorer* tab, right click and choose *Import*.
11. In the dialog box, under *General*, choose *Existing Projects into Workspace*.
12. Click *Next*.
13. Choose *Select archive file*, browse and select the earlier downloaded integration archive.
14. Repeat steps 9 to 12 to import all 6 iFlows.

Maintaining Parameters

You must repeat the steps below for every integration content copied in previous steps:

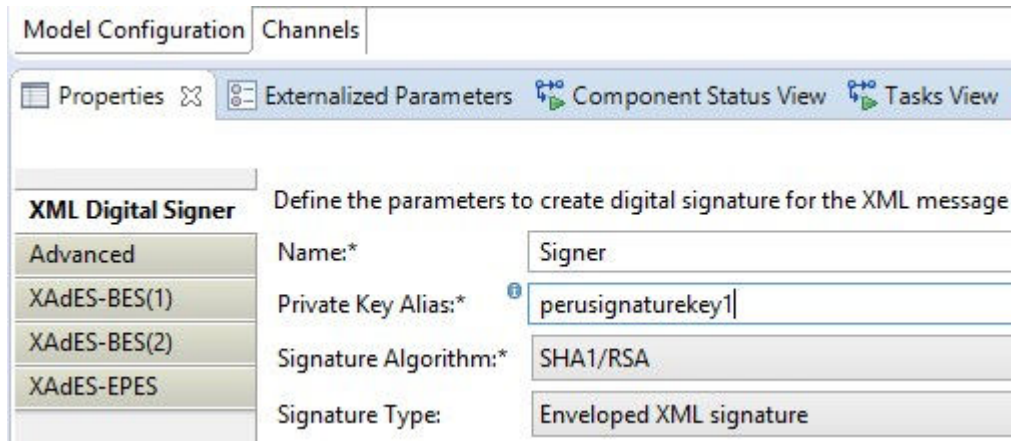
1. In Eclipse, go to the *Project Explorer* tab and expand the integration content package. Further expand package *src.main.resources.scenarioflows.integrationflow*.
2. Double click on the iFlow file with extension *.iflw*.
3. Click on the view *Externalized Parameters* and maintain the parameters.

Changing the iFlows

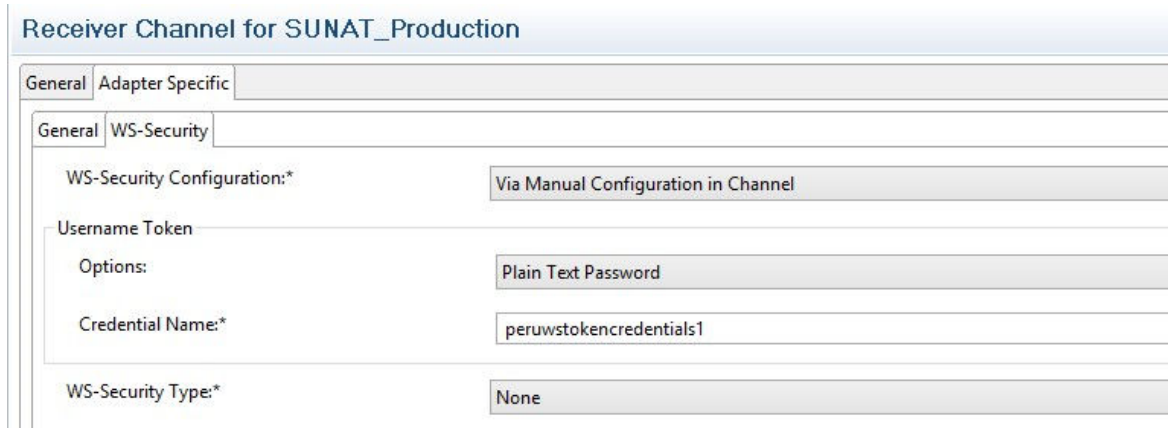
You must repeat the steps below for every integration content copied in previous steps:

1. In Eclipse, on the *Project Explorer* tab, expand the integration content package. Further expand the package *src.main.resources.scenarioflows.integrationflow*.
2. Double click on the iFlow file with extension *.iflw*.

3. Double click on the *SOAP sender channel*, and click on tab *Adapter Specific*.
4. On the *Connection Details* tab, in the *Address* field, add the company name as suffix to the existing address.
5. Click on *Model Configuration* and select the *Signer* box in the iFlow.
6. On the *Properties* tab, in the field *Private Key Alias*, add a suffix number representing the company. The private key of the company needs to be stored in the keystore with same alias. For example, `perusignaturekey1` is the alias for storing the private key of company **Company1**.



7. Click on *Model Configuration*, double click on the *SOAP Receiver Channel* and click on tab *Adapter Specific*.
8. Click on tab *WS-Security*, and in the *Credential Name* field, add a suffix number representing the company. For example:



9. Save your changes.
10. Deploy the private key `perusignaturekey<company number>` and security artifact `peruwstokencredentials<company number>` for each of the companies by repeating the steps mentioned in section [Deploy Certificates and Credentials to Tenants \[page 8\]](#).

Deploying the Copied iFlows

1. In Eclipse, on the *Node Explorer* tab, click on *Open Connection Preferences*, maintain the tenant management URL, username and password. Choose *Test Connection* and click on *OK*.
2. On the *Project Explorer* tab, right click on the integration content and choose *Deploy Integration Content*.
3. Repeat step 2 for every newly copied iFlow from the previous steps.

4.4 Set Up Connection with ERP on Test/Productive Tenants

If you are using basic authentication, the SAP Cloud Platform Integration tenant needs to have basic authorization enabled for the test user (SCN credentials). If you are using certificate-based authentication, you need to maintain the certificates properly on the SAP Cloud Platform Integration tenant keystore and on the iFlows.

To change the authentication type in the WebUI, do the following:

1. From the menu in the upper left corner, choose *Design*.
2. Click on the *eDocument: Electronic Invoicing for Peru* package and then on the iFlow that you want to change.
3. In the lower right corner, choose *Edit*.
4. On the sender side, click on *ERP*.

i Note

You must click directly on the letters or on the icon on the left.

5. In the *Authentication Type* dropdown box, select either *Basic Authentication* or *Certificate Based Authentication*.
When you select *Certificate Based Authentication*, you have to upload a certificate. Choose *Add* to assign additional certificates.

4.5 Deploy Integration Flows

Perform the steps below to deploy iFlows in the WebUI.

1. Select the iFlow in the WebUI and choose *Deploy*.
The iFlows must be deployed on the SAP Cloud Platform Integration test tenant with mode *TEST* or *HMLG*.
On the productive SAP Cloud Platform Integration tenant, the iFlows must be deployed with mode *PROD*.
2. After all the iFlows are deployed, note down the URLs of the endpoints for each service.
3. To verify in the WebUI that the deployment has been successful, choose *Run* from the menu in the upper left corner.
The iFlows must be in state *DEPLOYED*.

4.6 Create Logical Ports in SOAMANAGER

You configure proxies which are needed to connect to the SAP Cloud Platform Integration tenant via logical ports. In test SAP back-end systems, the logical ports are configured to connect to the test tenant. In productive SAP back-end systems, the logical ports are configured to connect to the productive SAP Cloud Platform Integration tenant.

For Peru, there are six different proxies that need to be connected to the SAP Cloud Platform Integration tenant via logical port.

The information in the following sections is based on the assumption that one SAP back-end client connects to one SAP Cloud Platform Integration tenant. In the first section below, the SAP back-end system sends all eDocuments to the same logical port independent of the company code.

In the second section, eDocuments are sent to different logical ports depending on the company code. This scenario is enabled with SAP Note [2170178](#). Refer to that SAP Note for further configuration of the system.

4.6.1 Logical Ports Independent of Company Code

Perform the steps below to create logical ports in case eDocuments must be sent to the same logical ports independent of the company code.

1. In your SAP back-end system, go to the `SOAMANAGER` transaction.
2. Create the logical ports for each proxy and the related endpoints (configured in the iFlows) as shown below:

Proxy Name	Logical Port Name	Endpoint URL (Customizable)
CO_EDO_PE_DOCUMENT_TRANSM_SERV	EDO_PE_DOCUMENT_TRANSM_SERV_PORT	/cxf/PeruGenericInvoice
V	ORT	
CO_EDO_PE_DLY_SUMM_TRANSM_SERV	EDO_PE_DLY_SUMM_TRANSM_SERV_PORT	/cxf/PeruSummaryDocumentsTransmission
V	ORT	
CO_EDO_PE_GET_STATUS_INV_SERV	EDO_PE_GET_STATUS_SERV_PORT	/cxf/PeruGetStatusInv
CO_EDO_PE_TAX_CERT_TRANS_SERV	EDO_PE_TAX_CERT_TRANS_SERV_PORT	/cxf//PeruTaxCertificate
	RT	
CO_EDO_PE_VOID_DOC_TRANSM_SERV	EDO_PE_VOID_DOC_TRANSM_SERV_PORT	/cxf/PeruVoidedDocumentsTransmission
V	ORT	
CO_EDO_PE_E_DOC_PERU_DOCUMENT	EDO_PE_DOCUMENT_TRANSM_SERV_PORT	/cxf/PeruGenericInvoice
	ORT	

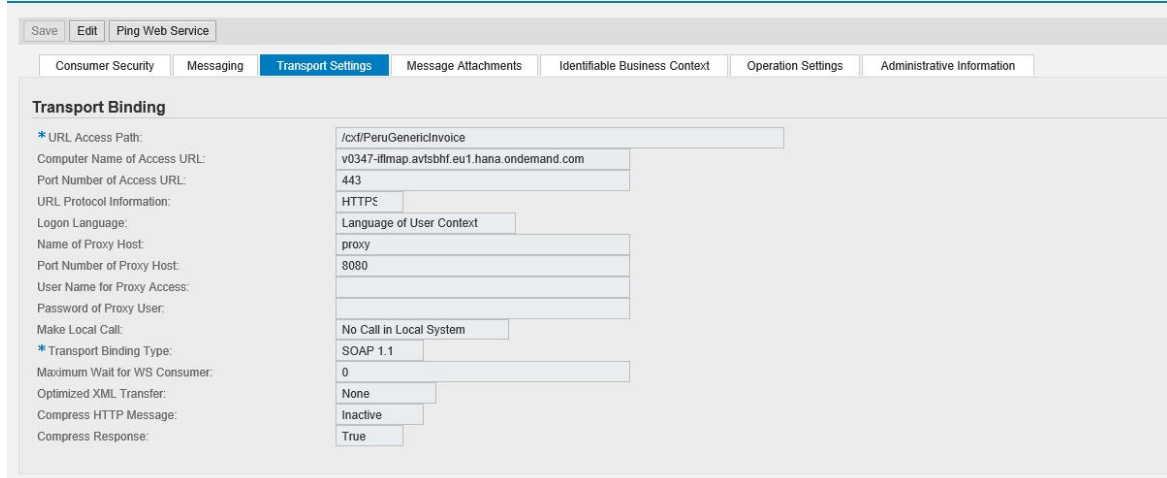
3. Add the following descriptions to the ports:

Logical Port Name	Description
EDO_PE_DOCUMENT_TRANSM_SERV_PORT	Peru eDocument – Invoice Credit and Debit Memo Transmission
EDO_PE_DLY_SUMM_TRANSM_SERV_PORT	Peru eDocument – Daily Summary Transmission Service
EDO_PE_GET_STATUS_SERV_PORT	Peru eDocument – Get Status for Invoice and Summaries Service

Logical Port Name	Description
EDO_PE_TAX_CERT_TRANS_SERV_PORT	Peru eDocument – WTC & CTC Transmission Service
EDO_PE_VOID_DOC_TRANSM_SERV_PORT	Peru eDocument – Voided Documents Transmission Service

- Ensure that the logical port is configured as indicated in the example below, replacing the access URL with the SAP Cloud Platform Integration tenant URL and the proxy settings with the ones from the network where the back-end system is located:

Configuration: Consumer Proxy 'CO_EDO_PE_DOCUMENT_TRANSM_SERV', Logical Port 'EDO_PE_DOCUMENT_TRANSM_SERV_PORT'



In the test system, you must use the access URL of the SAP Cloud Platform Integration test tenant. In the productive system, you must use the access URL of the SAP Cloud Platform Integration productive tenant. The *Consumer Security* tab page configuration depends on the security being used for the communication between the back-end system and SAP Cloud Platform Integration (basic authentication or certificate-based).

Note

- The iFlows in different modes have different logic. It is important that you maintain the URLs correctly in transaction *SOAMANAGER* in the test and the productive systems and that the modes are set correctly, as the iFlows will behave differently and contact different endpoints in the authority system (SUNAT).
- In our tests, it was necessary to go to the *Messaging* tab page in transaction *SOAMANAGER* and set *Message ID Protocol* to *Suppress ID Transfer*.

4.6.2 Logical Ports Dependent on Company Code

Perform the steps below to create logical ports in case eDocuments from different company codes must be sent to different logical ports.

This scenario can be required, for example, when eDocuments from a different company code must be signed with a different signature in SAP Cloud Platform Integration and therefore must be sent to different instances of an iFlow.

In your SAP back-end system, you must install SAP Note [2170178](#) as a prerequisite.

1. In your SAP back-end system, go to the SOAMANAGER
2. Maintain the logical ports for each set of iFlow instances as described in section [Logical Ports Independent of Company Code](#) [page 16].

You only need to change the *URL Access Path* field, the rest of the fields remain the same. For example, two company codes **CC11** and **CC22** use different signatures, which means that eDocuments belonging to these company codes must be signed by different iFlows. In SOAMANAGER, you must maintain two logical ports for each ABAP proxy, that is, one logical port per company code. One company (in this case CC11) will be the default and the other one needs to be explicitly differentiated by adding the company code to the technical names, as shown below:

Proxy Name	Logical Port Name	Endpoint URL (Customizable)
CO_EDO_PE_DOCUMENT_TRANSM_SERV	EDO_PE_DOCUMENT_TRANSM_SERV_PORT	/cxf/PeruGenericInvoice
	EDO_PE_DOCUMENT_**CC22**_TRANSM_SERV_PORT	/cxf/PeruGenericInvoice_CC22 (*)
CO_EDO_PE_DLY_SUMM_TRANSM_SERV	EDO_PE_DLY_SUMM_TRANSM_SERV_PORT	/cxf/PeruSummaryDocumentsTransmission
	EDO_PE_DLY_SUMM_**CC22**_TRANSM_SERV_PORT	/cxf/PeruSummaryDocumentsTransmission_CC22 (*)
CO_EDO_PE_GET_STATUS_INV_SERV	EDO_PE_GET_STATUS_SERV_PORT	/cxf/PeruGetStatusInv
	EDO_PE_GET_STATUS_INV_**CC22**_SERV_PORT	/cxf/PeruGetStatus_CC22 (*)
CO_EDO_PE_VOID_DOC_TRANSM_SERV	EDO_PE_VOID_DOC_TRANSM_SERV_PORT	/cxf/PeruVoidedDocumentsTransmission
	EDO_PE_VOID_DOC_**CC22**_TRANSM_SERV_PORT	/cxf/PeruVoidedDocumentsTransmission_CC22 (*)
CO_EDO_PE_E_DOC_PERU_DOCUMENT	EDO_PE_DOCUMENT_TRANSM_SERV_PORT	/cxf/PeruGenericInvoice
	EDO_PE_DOCUMENT_TRANSM_SERV_PORT	/cxf/PeruGenericInvoice_CC22 (*)

i Note

Entries marked with (*) are example URLs and do not exist. In a real scenario, the URLs are defined by copying the iFlows and adapting the URL in the copied instance.

In the SAP back-end system, the configuration in view EDOSOASERV could look as follows:

SOA Service Name	Company Code	Logical Port
PE_DOC_TRANSM	CC11	EDO_PE_DOCUMENT_TRANSM_SERV_PORT
PE_DOC_TRANSM	CC22	EDO_PE_DOCUMENT_**CC22**_TRANSM_SERV_PORT
PE_DLY_SUMM_TRANSM	CC11	EDO_PE_DLY_SUMM_TRANSM_SERV_PORT
PE_DLY_SUMM_TRANSM	CC22	EDO_PE_DLY_SUMM_**CC22**_TRANSM_SERV_PORT
PE_GET_STATUS	CC11	EDO_PE_GET_STATUS_INV_SERV_PORT
PE_GET_STATUS	CC22	EDO_PE_GET_STATUS_INV_**CC22**_SERV_PORT
PE_VOID_DOC_TRANSM	CC11	EDO_PE_VOID_DOC_TRANSM_SERV_PORT
PE_VOID_DOC_TRANSM	CC22	EDO_PE_VOID_DOC_**CC22**_TRANSM_SERV_PORT

5 Testing the Integration

Describes the steps to test the integration of eDocument with the integration scenario from SAP Cloud Platform Integration.

The best way to test if the integration works is to create and submit an eDocument from SAP backend system and see if that reaches the destination system. Follow the steps below:

1. Check that all the SAP Notes relevant to the Full Solution for Peru have been installed and all the manual configuration steps have been performed (see [Prerequisites \[page 4\]](#))
2. Create a relevant document for eDocument for Peru (for example, an invoice).

i Note

If the system is configured to generate an eDocument for the selected document type, an instance of the eDocument will be created as soon as the document is posted (for example, when you save an SD billing document).

3. Go to the *eDocument Cockpit* (EDOC_COCKPIT) transaction.
4. Enter the company code for the document that was posted. If necessary, enter additional selection parameters.
5. When the selection is complete, run the report.
You see a list of eDocuments based on your selection.
6. Find the eDocument that you just created and check the following:
 - If the *eDocument GUID* field of your entry is **yellow**, the eDocument was created but not submitted yet. In this case, select it and choose the *Submit* pushbutton to trigger the communication with SAP Cloud Platform Integration.
 - If the *eDocument GUID* field is **green**, the communication with SAP Cloud Platform Integration was triggered and was successful.
You can double-check if the message went through on the SAP Cloud Platform Integration tenant; or you can use a trace from transaction `SRT_UTIL` to look at the XMLs transmitted via web services from the backend system. Note: the trace must be activated before you start the `EDOC_COCKPIT` transaction.
 - You can double-click on the *Interface Message GUID* field to navigate to AIF and look at the log. Communication errors will be displayed there.

6 Troubleshooting

In this section, you can find useful information for solving errors that can occur during the communication with the tax authorities in Peru (SUNAT) using the web service.

6.1 Error Codes

When calling web services, there are many error codes that indicate possible issues with communication.

These codes are provided by the tax authorities in Peru (SUNAT) and can be found under the link below:

Since this is an external, country-specific document, the error list (Codigos de Error) are only described in Spanish. SAP SE or its affiliated companies are not responsible for its availability, content or accuracy.

6.2 Proxy Errors in Backend Systems

Error information is sent back by SUNAT as SOAP fault. When the ABAP Proxy in the backend systems receives the SOAP fault, the *eDocument Cockpit* shows the following error message:

```
Proxy Error GENERAL_ERROR Error during proxy processing (PART U: NKNOWN (NULL))
```

The actual error information can be seen in one of the following ways:

- In the payload trace of transaction `SRT_UTIL` in the backend system
Note: The trace must be activated before you start the `EDOC_COCKPIT` transaction.
- In the payload trace of SAP Cloud Platform Integration
- In the Message Processing Log (MPL) of SAP Cloud Platform Integration

6.3 "Get Status" Test Web Service Not Working

At the time of publishing this document, the SUNAT test web service did not implement the "Get Status" service. Calling this service always returns "ticket not found".

To properly test this service, the customer needs to be in homologation mode (the web service works properly in homologation and production).

6.4 SOAP Fault “MustUnderstand Headers”



If you get this error when communicating with SAP Cloud Platform Integration, check the configuration in SOAMANAGER. The issue is probably caused by not selecting the checkbox *Message ID Protocol Suppress ID Transfer*.

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