



Integration Guide | PUBLIC
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South Korea Electronic Invoicing: Setting Up SAP Integration Suite (SAP S/4HANA) - Cloud Foundry environment

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1 Disclaimer

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2 Introduction

You use SAP Integration Suite to establish the communication with your service provider and transfer to them the electronic tax invoices in XML format you have created using the SAP Document and Reporting Compliance solution. This document lists the required setup steps you must perform in your SAP S/4HANA system 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 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.

ⓘ 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 **Set Up Your Tenants** section for their respective initial setup steps.

ⓘ 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 system 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 SAP S/4HANA documentation and to the relevant tax authority information, respectively.

3 Prerequisites

3.1 Register with a Service Provider

Register with a service provider to use their APIs to communicate with the National Tax Service.


For example, if your service provider is SmartBill, register on their website at <https://www.smartbill.co.kr/> .

3.2 Configure the Creation of Electronic Tax Invoices in XML Format

Ensure that you have configured the creation of electronic tax invoices in XML format in your test and productive SAP S/4HANA systems.

Documentation

To find documentation about the required configuration steps and business processes, follow the steps below:

1. Go to SAP Help Portal at <https://help.sap.com>.
2. Search with the keyword **SAP S/4HANA**.
3. From the suggested products, select **SAP S/4HANA**.
4. At the top of the browser window, select your product version.
5. In the *Product Assistance* section, select a language.
6. From the navigation pane on the left, select **Local Versions** > *Asia-Pacific* > *South Korea* > *Cross-Application Functions* > *Document and Reporting Compliance* > *<select an electronic document type>* .

3.3 Set Up Your Tenants

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

Note

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

4 Configuration Steps in SAP Integration Suite

Required steps in SAP Integration Suite.

4.1 Deploy Security Credentials

When attempting to communicate with your service provider, you go through an authentication step in which your service provider asks for some security credentials. You must configure these security credentials in your SAP Integration Suite tenant.

Required Security Credentials

The required security credentials are as follows:

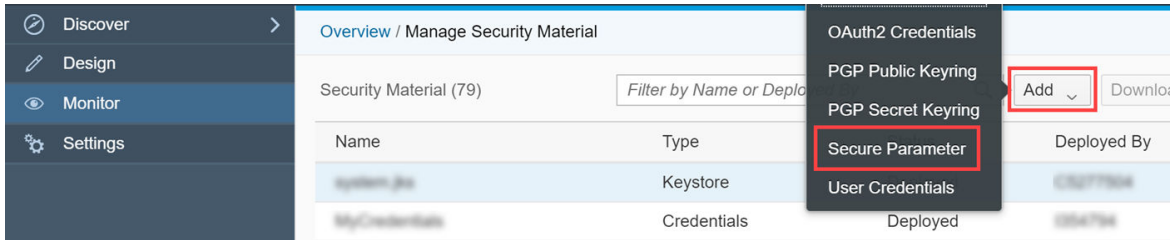
Name	Description
<code>edoc_kr_smartbill_token_<tax id></code>	This credential is an authentication token provided by your service provider. It's used in calling all service provider APIs. <tax id> is your VAT registration number issued by the National Tax Service (NTS), which consists of 10 digits.
<code>edoc_kr_smartbill_AESkey</code>	This credential is a symmetric AES key issued by your service provider.
<code>edoc_kr_smartbill_certpassword_<tax id></code>	This credential is the password of your public certificate. SAP Integration Suite encrypts the password with the symmetric AES key using AES/CBC/PKCS5Padding. The encrypted password is used in calling some service provider APIs. <tax id> is your VAT registration number issued by the National Tax Service (NTS), which consists of 10 digits.

Procedure

To configure the above credentials, follow the steps below:

1. Log into your SAP Integration Suite tenant.

2. Go to *Monitor* (Operations view) and open the *Security Material* app.
3. Click *Add* on the top right corner of the browser window. Select *Secure Parameter*.



An *Add Secure Parameter* dialog box appears.

Add Secure Parameter

***Name:**

Description:

***Secure Parameter:**

***Repeat Secure Parameter:**

Deploy
Cancel

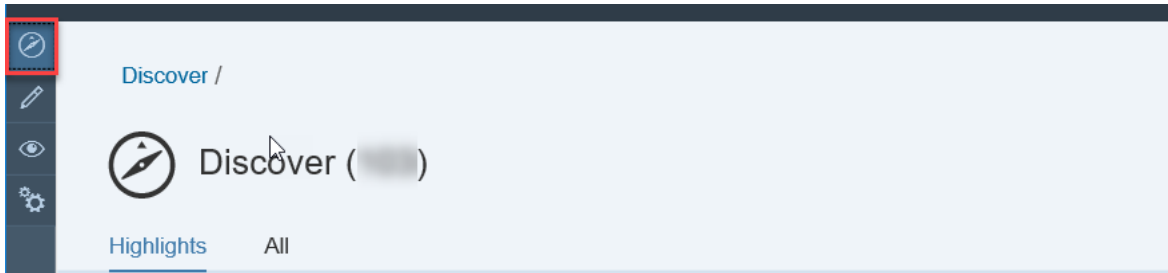
4. Enter `edoc_kr_smartbill_token_<tax id>` in the *Name* field. Remember to replace `<tax id>` with your VAT registration number.
5. Enter the value of the credential in the *Secure Parameter* field and repeat it in the *Repeat Secure Parameter* field.
6. Choose *Deploy*.
7. Configure `edoc_kr_smartbill_AESkey` and `edoc_kr_smartbill_certpassword` in the same way.

4.2 Copy Published Package

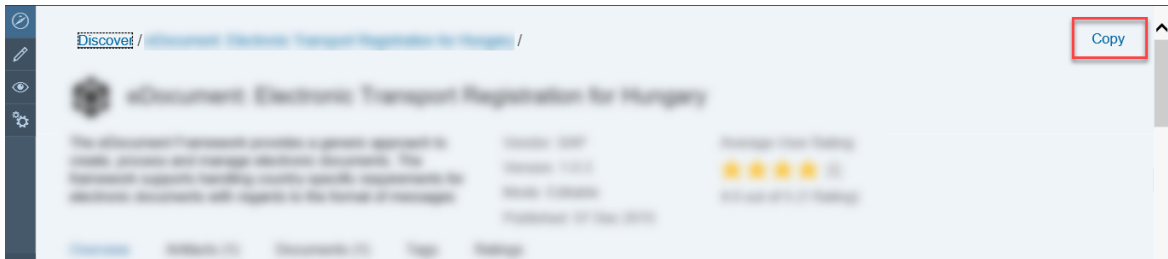
Context

Procedure

1. In the *Discover* section of your tenant, select the package *SAP Document and Reporting Compliance: Electronic Invoicing for South Korea*.



2. Select the package and choose *Copy*.



4.3 Deploy Integration Flows

Required steps for configuring the integration flows.

Context

The integration flows that you should deploy depend on your role (supplier or customer). See the following table for details:

Integration Flow	Role Using This Integration Flow	Functions
South Korea Send Tax Invoice	Supplier	<ul style="list-style-type: none"> Send tax invoices that you issue to your customers to the National Tax Service (NTS) Send self-billing tax invoices that your customers create to the NTS
South Korea Send Self-Billing Tax Invoice to Supplier	Customer	Send self-billing tax invoices that you create as a customer to your suppliers

Integration Flow	Role Using This Integration Flow	Functions
<i>South Korea Get Processing Status of Tax Invoice</i>	Supplier, Customer	<ul style="list-style-type: none"> Get processing statuses of tax invoices that you issue to your customers Get processing statuses of self-billing tax invoices that your customers create Get processing statuses of self-billing tax invoices that you create as a customer
<i>South Korea Change Status of Tax Invoice</i>	Supplier, Customer	<ul style="list-style-type: none"> Cancel tax invoices that you issue to your customers Cancel or reject self-billing tax invoices that your customers create Cancel self-billing tax invoices that you create as a customer
<i>South Korea Send Notification Emails</i>	Supplier	<ul style="list-style-type: none"> Send notification emails to customers, asking them to review tax invoices that you issue to them Send notification emails to customers, asking them to review self-billing tax invoices that you return to them, which have updated transfer dates
<i>South Korea Send Tax Invoice to National Tax Service Immediately</i>	Supplier	<ul style="list-style-type: none"> Send tax invoices that you issue to customers to the NTS immediately in emergencies For example, the deadline for tax invoice reporting is just around the corner. Send self-billing tax invoices that your customers create to the NTS immediately in emergencies
<i>South Korea Get Self-Billing Request from SmartBill</i>	Supplier	Get self-billing requests from your service provider
<i>South Korea Get and Delete Self-Billing Request from Datastore</i>	Supplier	<ul style="list-style-type: none"> Read self-billing requests from datastores on SAP Integration Suite Delete self-billing requests from datastores on SAP Integration Suite <p>For more information about the logic of this integration flow, see Logic of the "South Korea Get and Delete Self-Billing Request from Datastore" Integration Flow [page 18].</p>

Integration Flow	Role Using This Integration Flow	Functions
South Korea Get Supplier Tax Invoice from SmartBill	Customer	Get supplier tax invoices from SmartBill through the Open Scrap Service.
South Korea Get and Delete Supplier Tax Invoice from Datastore	Customer	<ul style="list-style-type: none"> Get supplier tax invoices from a datastore on SAP Integration Suite Delete supplier tax invoices from a datastore on SAP Integration Suite

Note

The logic of this integration flow is the same as that of the integration flow [South Korea Get and Delete Self-Billing Request from Datastore](#).

Procedure

1. Open the integration package that you copied.
2. Select the *Artifacts* tab.
3. Select an integration flow. Choose the *Actions* icon and then *Configure*.

<input type="checkbox"/> Name	Type	Version	Actions
<input type="checkbox"/> South Korea Change Status of Tax Invoice Cancel or reject tax invoices Unmodified	Integration Flow	1.1.1	
<input type="checkbox"/> South Korea Get and Delete Self-Billing Request from Datastore Get or delete self-billing requests that are initiated by customers from a datastore on SAP Cloud Platform Unmodified	Integration Flow	1.0.1	
<input type="checkbox"/> South Korea Get Processing Status of Tax Invoice Get processing statuses of tax invoices at SmartBill or the National Tax Service, including statuses of self-billing tax invoices Unmodified	Integration Flow	1.2.0	
<input type="checkbox"/> South Korea Get Self-Billing Request from SmartBill Get self-billing requests that are initiated by customers from SmartBill Unmodified	Integration Flow	1.0.1	<div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Copy View metadata Download Configure Deploy </div>
<input type="checkbox"/> South Korea Send Notification Emails Send notification emails to customers, asking them to review tax invoices Unmodified	Integration Flow	1.0.1	
<input type="checkbox"/> South Korea Send Self-Billing Tax Invoice to Supplier Send self-billing tax invoices to suppliers if you play the customer role Unmodified	Integration Flow	1.0.0	
<input type="checkbox"/> South Korea Send Tax Invoice Send tax invoices, including self-billing tax invoices from customers, to the National Tax Service Unmodified	Integration Flow	1.2.0	
<input type="checkbox"/> South Korea Send Tax Invoice to National Tax Service Immediately Send tax invoices, including self-billing tax invoices from customers, to the National Tax Service via SmartBill immediately Unmodified	Integration Flow	1.1.2	

4. Configure the parameters of the integration flow.
5. Choose *Deploy*.
6. Configure the other integration flows that you want to use.

For information on how to configure the parameters of each integration flow, see [Parameter Information \[page 12\]](#).

4.3.1 Parameter Information

Learn how you should configure the parameters of each integration flow.

The following table explains the parameters for each integration flow:

Integration Flow	Parameter	Explanation
<p>All integration flows except the following:</p> <ul style="list-style-type: none"> South Korea Get Self-Billing Request from SmartBill South Korea Get Supplier Tax Invoice from SmartBill 	<p>User Role (<i>Sender</i> tab)</p>	<p>This parameter specifies the user role that is used for inbound authentication.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p>Note</p> <p>Set up inbound authentication by referring to the documentation below:</p> <ul style="list-style-type: none"> For SAP Integration Suite: Managing User Roles For SAP Cloud Integration: Managing User Roles, Cloud Foundry Environment, Setting Up Inbound HTTP Connections (Integration Flow Processing), Neo Environment <p>In addition, you must configure user settings in your business system. If you use SAP S/4HANA Cloud, assign the tenant user having this user role to your communication system. If you use SAP S/4HANA, enter this tenant user on the Consumer Security page in the SOA Manager settings.</p> </div>
<p>All integration flows except the following:</p> <ul style="list-style-type: none"> South Korea Get and Delete Self-Billing Request from Datastore South Korea Get and Delete Supplier Tax Invoice from Datastore 	<p>Enable Attachments (<i>More</i> tab → <i>All Parameters</i> type)</p>	<p>This parameter enables or disables the attachments function for message processing logs. To enable it, set this parameter to x. To disable it, set this parameter to blank.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p>→ Recommendation</p> <p>Since the attachments function is very resource intensive, we suggest that you disable it if it's not very necessary.</p> </div>

Integration Flow	Parameter	Explanation
	<i>Service URL (More tab → All Parameters type)</i>	This parameter refers to the URL of a specific service from your service provider.
<i>South Korea Get and Delete Self-Billing Request from Datastore</i>	<i>Enable Attachments (Get Requests), Enable Attachments (Delete Requests) (More tab → All Parameters type)</i>	<p>The <i>Enable Attachments (Get Requests)</i> parameter enables or disables the attachments function for the message processing logs about getting requests from a datastore. To enable it, set this parameter to X. To disable it, set this parameter to blank.</p> <p>The <i>Enable Attachments (Delete Requests)</i> parameter enables or disables the attachments function for the message processing logs about deleting requests from a datastore. To enable it, set this parameter to X. To disable it, set this parameter to blank.</p>
<i>South Korea Get and Delete Supplier Tax Invoice from Datastore</i>		

Integration Flow	Parameter	Explanation
South Korea Get Self-Billing Request from SmartBill	<i>From Date</i> , <i>To Date</i> , <i>Period</i> , and <i>Registry</i> (<i>More</i> tab → <i>All Parameters</i> type)	<p>These parameters are used as criteria for selecting and getting self-billing requests from your service provider.</p> <p>The combination of the <i>From Date</i>, <i>To Date</i>, and <i>Period</i> parameters determines the final date parameter (<code>SearchFromDate</code> and <code>SearchToDate</code>) of the HTTP request that gets self-billing requests from your service provider. The <i>From Date</i>, <i>To Date</i>, and <i>Period</i> parameters all refer to document creation date.</p> <p>The <i>From Date</i> and <i>To Date</i> parameters take higher priority over the <i>Period</i> parameter. If the value of the <i>Period</i> parameter isn't equal to the total number of days indicated by <i>From Date</i> and <i>To Date</i>, the system uses the latter as the date search criterion. For more details about how the system determines the date period, see the table Determination Rules for Date Parameters below.</p> <p>In the <i>Registry</i> parameter, you enter the VAT registration numbers of the companies for which you want to pull self-billing requests. You must separate VAT registration numbers with commas (for example, 1000000000,2000000000).</p>

Integration Flow	Parameter	Explanation
South Korea Get Supplier Tax Invoice from SmartBill	<i>SearchDate</i> , <i>From Date</i> , <i>To Date</i> , <i>Period</i> , <i>SearchComRegNoSet</i> , and <i>SendComRegNo</i> (More tab → All Parameters type)	<p>These parameters are used as criteria for selecting and getting supplier tax invoices from your service provider.</p> <p>The <i>SearchDate</i> parameter defines the type of date used as the date criterion. There are three possible values, as follows:</p> <ul style="list-style-type: none"> • w: document creation date • I: document issue date, which is the date when a document is signed with an electronic certificate • s: document transfer date, which is the date when a document is sent to the NTS <p>The combination of the <i>From Date</i>, <i>To Date</i>, and <i>Period</i> parameters determines the final date parameter (<i>SearchFromDate</i> and <i>SearchToDate</i>) of the HTTP request that gets supplier tax invoices from your service provider.</p> <p>The <i>From Date</i> and <i>To Date</i> parameters take higher priority over the <i>Period</i> parameter. If the value of the <i>Period</i> parameter isn't equal to the total number of days indicated by <i>From Date</i> and <i>To Date</i>, the system uses the latter as the date search criterion. For more details about how the system determines the date period, see the table Determination Rules for Date Parameters below.</p> <p>For the <i>SendComRegNo</i> parameter, you enter the VAT registration number that you have registered with your service provider. This VAT registration number has the authorization to look up supplier tax invoices.</p> <p>For the <i>SearchComRegNoSet</i> parameter, you enter the VAT registration numbers of the companies for which you want to pull supplier tax invoices. You must separate VAT registration</p>

Integration Flow	Parameter	Explanation
		numbers with commas (for example, 1000000000,2000000000).
South Korea Get Self-Billing Request from SmartBill	Parameters on the <i>Timer</i> tab	These parameters enable you to schedule an integration flow to run regularly.
South Korea Get Supplier Tax Invoice from SmartBill		

The following table describes the rules for determining the date criterion used in selecting and getting self-billing requests and supplier tax invoice requests:

Determination Rules for Date Parameters

From Date (Parameter of Integration Flow)	To Date (Parameter of Integration Flow)	Period (Parameter of Integration Flow)	SearchFromDate (Parameter of HTTP Request)	SearchToDate (Parameter of HTTP Request)	Example
Empty	Empty	Empty	For Self-Billing Requests: Today - 6 For Supplier Tax Invoices: Today - 29	Today	For Self-Billing Requests: <ul style="list-style-type: none"> Today: 2021-09-01 Date Period Used: 2021-08-26 to 2021-09-01 For Supplier Tax Invoices: <ul style="list-style-type: none"> Today: 2021-09-01 Date Period Used: 2021-08-03 to 2021-09-01
Empty	Empty	Not Empty	Today - Period + 1	Today	Today: 2021-09-01 Period: 14 Date Period Used: 2021-08-19 to 2021-09-01

From Date (Parameter of Integration Flow)	To Date (Parameter of Integration Flow)	Period (Parameter of Integration Flow)	SearchFromDate (Parameter of HTTP Request)	SearchToDate (Parameter of HTTP Request)	Example
Not Empty	Empty	Not Empty	From Date	From Date + Period - 1	From Date: 2021-09-01 Period: 14 Date Period Used: 2021-09-01 to 2021-09-14
Not Empty	Empty	Empty	From Date	For Self-Billing Requests: From Date + 6 For Supplier Tax Invoices: From Date + 29	For Self-Billing Requests: <ul style="list-style-type: none"> From Date: 2021-09-01 Date Period Used: 2021-09-01 to 2021-09-07 For Supplier Tax Invoices: <ul style="list-style-type: none"> From Date: 2021-09-01 Date Period Used: 2021-09-01 to 2021-09-30
Empty	Not Empty	Not Empty	To Date - Period + 1	To Date	To Date: 2021-09-01 Period: 14 Date Period Used: 2021-08-19 to 2021-09-01

From Date (Parameter of Integration Flow)	To Date (Parameter of Integration Flow)	Period (Parameter of Integration Flow)	SearchFromDate (Parameter of HTTP Request)	SearchToDate (Parameter of HTTP Request)	Example
Empty	Not Empty	Empty	For Self-Billing Requests: To Date - 6 For Supplier Tax Invoices: To Date - 29	To Date	For Self-Billing Requests: <ul style="list-style-type: none"> To Date: 2021-09-01 Date Period Used: 2021-08-26 to 2021-09-01 For Supplier Tax Invoices: <ul style="list-style-type: none"> To Date: 2021-09-01 Date Period Used: 2021-08-03 to 2021-09-01
Not Empty	Not Empty	Empty or Not Empty	From Date	To Date	From Date: 2021-09-01 To Date: 2021-09-26 Period: 14 Date Period Used: 2021-09-01 to 2021-09-26

4.3.2 Logic of the "South Korea Get and Delete Self-Billing Request from Datastore" Integration Flow

Note

The integration flow *South Korea Get and Delete Supplier Tax Invoice from Datastore* also uses the logic described in this document.

The process flow of pulling and deleting self-billing requests from datastores is as follows:

1. You trigger the pulling of self-billing requests from datastores from your SAP S/4HANA Cloud tenant, using the *Process eDocument Inbound Messages* app. You specify a message type, a company code, and a maximum number of requests to pull.
2. Based on the company code, the *South Korea Get and Delete Self-Billing Request from Datastore* integration flow gets the VAT registration numbers associated with the company code.

3. Based on these VAT registration numbers, the integration flow identifies the target datastores.
4. From the identified target datastores, the integration flow pulls the self-billing requests that are sent to suppliers with these VAT registration numbers.
The number of requests pulled from each datastore doesn't exceed the maximum number that you specified in the [Process eDocument Inbound Messages](#) app. The requests in a datastore are sorted by conversion ID in an ascending order. If the number of requests in a datastore exceeds the maximum number allowed, the integration flow pulls the maximum number of requests allowed that are at the top of the list.
5. To save datastore space, once completing pulling the requests to SAP S/4HANA Cloud, the integration flow deletes the requests from the datastores.
6. When the integration flow [South Korea Get Self-Billing Request from SmartBill](#) runs, the requests deleted from the datastores in step 5 may be still pending processing. This integration flow pulls the requests that were deleted before but are still pending processing to the datastores again.
7. To save datastore space, the integration flow [South Korea Get and Delete Self-Billing Request from Datastore](#) deletes these requests from the datastores again.

❁ Example

You have the following data:

VAT Registration Number Associated with Company Code	Maximum Number of Requests to Pull	Number of Data Records in Datastore
VAT registration number 1: 1000000000	50	Datastore 1 for VAT registration number 1: 10 records
VAT registration number 2: 2000000000	50	Datastore 2 for VAT registration number 2: 80 records
VAT registration number 3: 3000000000	50	Datastore 3 for VAT registration number 3: no records

The integration flow tries pulling 50 requests from the three datastores, respectively. In the end, the integration flow pulls all the 10 records from datastore 1 and the first 50 records from datastore 2. In total, it pulls 60 records from the datastores. Once finishing the pulling task, the integration flow deletes the 60 records from the datastores.

When the integration flow [South Korea Get Self-Billing Request from SmartBill](#) runs, 10 records of the 60 are still pending processing. This integration flow pulls these 10 records to the datastores again. Later, the [South Korea Get and Delete Self-Billing Request from Datastore](#) integration flow deletes these 10 records from the datastores again.

5 Configuration Steps in SAP S/4HANA

Required steps on your SAP S/4HANA system.

5.1 Create Proxy Configurations in SOA Manager

Configure the required proxies in SOA Manager in your SAP S/4HANA system.

Context

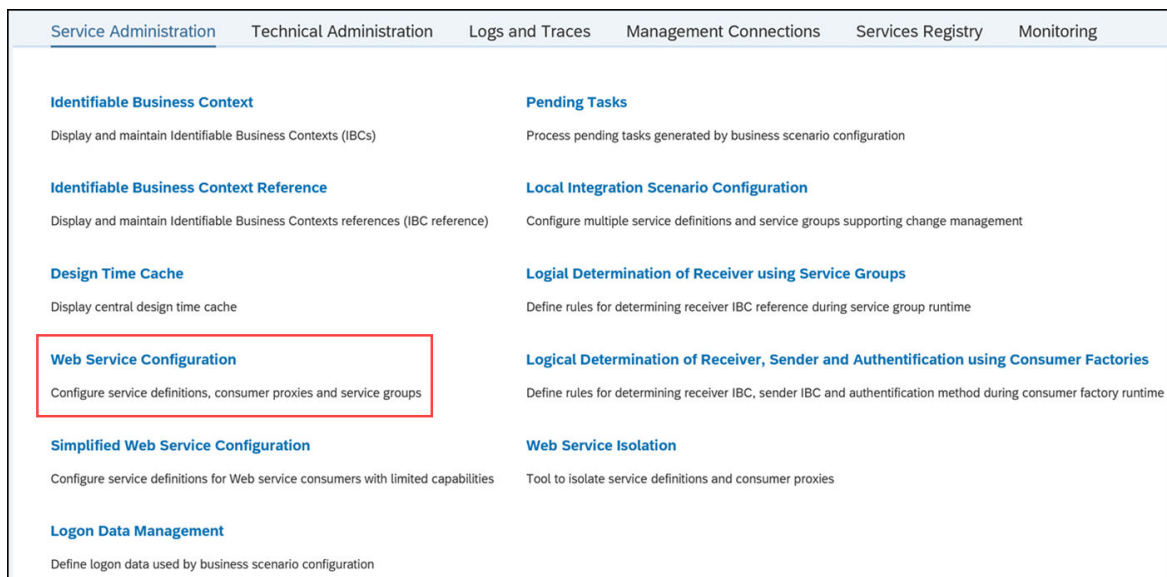
You connect the required proxies to your SAP Integration Suite tenant via logical ports. In a test SAP S/4HANA system, you configure the logical ports to connect to your test SAP Integration Suite tenant. In a productive SAP S/4HANA system, you configure the logical ports to connect to your productive SAP Integration Suite tenant.

Note

Depending on your product version, the look and feel of the screens in your system may differ from the screenshots in this document.

Procedure

1. Call up transaction SOAMANAGER. Choose *Web Service Configuration*.



- Search for the proxies for electronic tax invoices with the search criterion **object name containing EDOCSOUTHKOREA***.

Design Time Object Search
Configuration Search

▼ Search criteria

Object Type
is
All
⊕ ⊖

Object Name
contains
EDOCSOUTHKOREA*
⊕ ⊖

Maximum Number of Results:
Saved Search:
📄 🗑️

Search Result

Internal Name	Type	Name	Namespace	Description

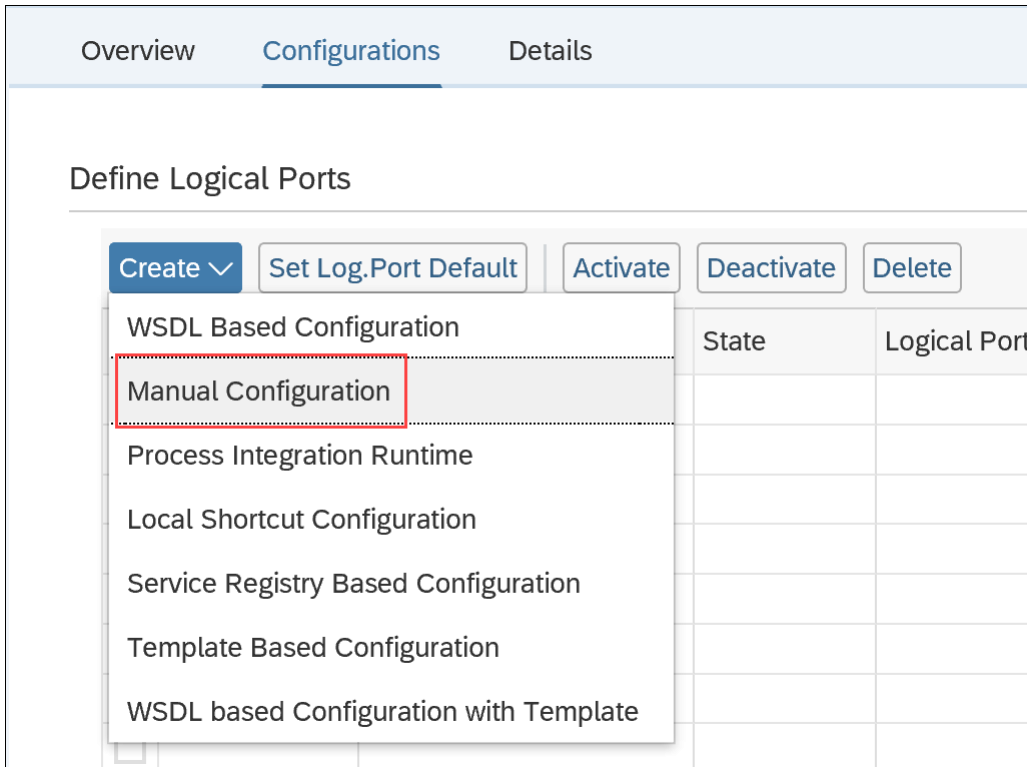
Some proxies are intended for the supplier role only, while others are intended for the customer role only. See the following table for details:

Proxy Name	Your Role	Functions	Endpoint Path
eDocSouthKoreaSendTaxInvoice	Supplier	Send tax invoices that you issue to your customers to the National Tax Service (NTS)	/cxf/kr/sendinvoice
eDocSouthKoreaSendSelfBillingTaxInvoice	Supplier	Send self-billing tax invoices that your customers create to the NTS	/cxf/kr/sb/sendinvoice
eDocSouthKoreaSendSelfBillingTaxInvoice	Customer	Send self-billing tax invoices that you create to your suppliers	/cxf/kr/sb/purchaser/sendinvoice
eDocSouthKoreaGetStatus	Supplier, Customer	<ul style="list-style-type: none"> Get processing statuses of tax invoices that you issue to your customers Get processing statuses of self-billing tax invoices that your customers create Get processing statuses of self-billing tax invoices that you create as a customer 	/cxf/kr/getstatus

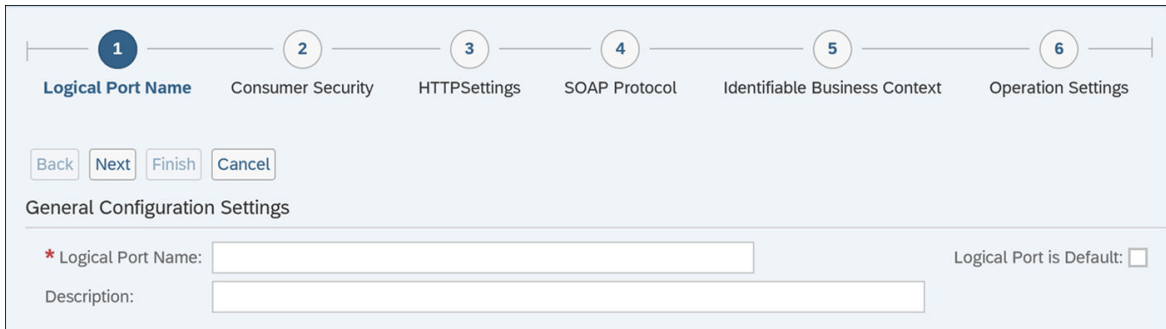
Proxy Name	Your Role	Functions	Endpoint Path
eDocSouthKoreaSendMail1	Supplier	<ul style="list-style-type: none"> Send notification emails to your customers, asking them to review tax invoices that you issue to them Send notification emails to your customers, asking them to review self-billing tax invoices that you return to them 	/cxf/kr/sendemail
eDocSouthKoreaChangeStatus	Supplier, Customer	<ul style="list-style-type: none"> Cancel tax invoices that you issue to your customers Cancel or reject self-billing tax invoices that your customers create Cancel self-billing tax invoices that you create as a customer 	/cxf/kr/changestatus
eDocSouthKoreaSendNts	Supplier	<ul style="list-style-type: none"> Send tax invoices that you issue to your customers to the NTS immediately in emergencies (for example, when the deadline for tax invoice reporting is just around the corner) Send self-billing tax invoices from customers to the NTS immediately in emergencies 	/cxf/kr/ntsrequest

Proxy Name	Your Role	Functions	Endpoint Path
eDocSouthKoreaSelfBilling	Supplier	<ul style="list-style-type: none"> Get self-billing requests from datastores on SAP Integration Suite Delete self-billing requests from datastores on SAP Integration Suite 	<ul style="list-style-type: none"> <code>/cxf/kr/sb/pullrequest</code> for getting self-billing requests from datastores on SAP Integration Suite <code>/cxf/kr/sb/deleterequest</code> for deleting self-billing requests from datastores on SAP Integration Suite
<div style="background-color: #e0e0e0; padding: 5px;"> <p>Note</p> <p>You must define two logical ports for this proxy, for getting self-billing requests and deleting self-billing requests, respectively.</p> </div>			
eDocSouthKoreaAP	Customer	<ul style="list-style-type: none"> Get supplier tax invoices from datastores on SAP Integration Suite Delete supplier tax invoices from datastores on SAP Integration Suite 	<ul style="list-style-type: none"> <code>/cxf/kr/ap/pullrequest</code> for getting supplier tax invoices from datastores on SAP Integration Suite <code>/cxf/kr/ap/deleterequest</code> for deleting supplier tax invoices from datastores on SAP Integration Suite
<div style="background-color: #e0e0e0; padding: 5px;"> <p>Note</p> <p>You must define two logical ports for this proxy, for getting supplier tax invoices and deleting supplier tax invoices, respectively.</p> </div>			

3. From the search results, select `eDocSouthKoreaSendeTaxInvoice` and choose **Create** **Manual Configuration**.



4. Enter a logical port name and description. Choose *Next*.



5. On the *Consumer Security* page, select the *User ID / Password* authentication method. Enter the value of your `clientId` in the *User Name* field, and the value of your `clientsecret` in the *Password* field. Then choose *Next*.

You create these values for your service instance in SAP Integration Suite. For more information, see [Creating Service Instances](#).

6. On the *HTTP Settings* page, select the *URL components* radio button and make the following settings:

Setting	Remark
<i>Protocol</i>	Select <i>HTTPS</i> .
<i>Host</i>	<p>Enter the host name of the integration flow that you want to communicate with. You can find the host name on your SAP Integration Suite tenant, as follows:</p> <ol style="list-style-type: none"> From the menu on the left, choose <i>Monitor</i>. Select <i>Manage Integration Content</i> (All). Search for the integration flow. Find the host name from the <i>Endpoints</i> tab. <p>The composition of an endpoint URL is https://<host name>/<path>.</p>
<i>Port</i>	Enter 443 , which is the standard port for the HTTPS protocol.
<i>Path</i>	Find the path in step 2.
<i>Proxy</i>	Enter the information about your company's network proxy.

1 Logical Port Name 2 Consumer Security **3 HTTPSettings** 4 SOAP Protocol 5 Identifiable Business Context 6 Operation Settings

Back Next Finish Cancel

URL Access Path

Complete URL URL components

* Protocol: HTTPS ▾

* Host:

Port: 443

* Path:

Logon Language: Language of User Context ▾

Proxy

Name of Proxy Host:

Port Number of Proxy Host:

User Name for Proxy Access:

Password of Proxy User:

Choose *Next*.

- On the *SOAP Protocol* page, set the message ID protocol to *Suppress ID Transfer*. As for the other settings, use the defaults. Choose *Finish*.

1 Logical Port Name 2 Consumer Security 3 HTTPSettings **4 SOAP Protocol** 5 Identifiable Business Context 6 Operation Settings

Back Next Finish Cancel

Message ID (Synchronous)

Message ID Protocol: Suppress ID Transfer ▾

Metering of Service Calls

Data transfer scope: Enhanced Data Transfer ▾

Transfer protocol: Transfer via SOAP header ▾

Message Attachment Handling

Process Attachments: No ▾

No settings are required on the *Identifiable Business Context* and *Operation Settings* pages.

- Repeat steps 3 to 7 for the other proxies.

Next Steps

To complete the communication settings, you need to carry out the following Customizing activities related to SOA services in SAP S/4HANA:

- [Define SOA Services for Communication](#) (EDOSOASERV view)
Create SOA services and assign the logical ports that you have defined to them.
- [Assign SOA Services to eDocument Interfaces](#) (EDOINTV view)

6 Test the Integration

Test the communication between your back-end SAP system, SAP Integration Suite, service provider, and the National Tax Service (NTS) using your test tenants.

The [Configure the Creation of Electronic Tax Invoices in XML Format \[page 5\]](#) topic of this guide describes how to find the documentation about the required configurations and business processes. To test the integration, perform the procedures described in the following topics in this documentation:



- [Creating and Sending a Tax Invoice in XML Format](#)
- [Canceling a Tax Invoice in XML Format](#)
- [Approving or Rejecting a Customer-Issued Tax Invoice as a Supplier](#)

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