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# Document Compliance for Turkey eInvoice and Delivery Note – SAP Cloud Platform Integration Guide (SAP ERP/S/4HANA)

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# 1 Disclaimer

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## 2 Introduction

The communication part of the eDocument solution for eInvoice and Delivery note in Turkey is taken care by SAP Cloud Platform Integration. To get SAP Cloud Platform Integration working, there are some required steps for both the SAP S/4HANA or SAP ERP system and the SAP Cloud Platform Integration tenant.

These steps are typically done by an SAP Cloud Platform Integration consulting team, which is responsible for configuring the SAP ERP or SAP S/4HANA Cloud and the connection with SAP Cloud Platform Integration, as well as maintaining the integration content and credentials on the SAP Cloud Platform Integration tenant.

**IMPORTANT NOTE:** This document describes functionality that is provided by the Integration Package itself, that is, by the artefacts that are deployed to the SAP Cloud Platform Integration tenant. It may happen, however, that in the SAP S/4HANA Cloud the access to such functionality is only partially implemented. Additionally, it may 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

Before you start with the activities described in this document, ensure that the following prerequisites are met.

## 3.1 Installation of eDocument Full Solution

The eDocument Full solution is installed in your test and production systems.

- For the generic part, refer to Installation Guide for eDocument attached to SAP Note [2134248](#).
- For Turkey eInvoice, refer to SAP Notes under *Full Solution* section in SAP Note [2214845](#).
- For Turkey Delivery Note, refer to SAP Notes under *Full Solution* section in SAP Note [2711030](#).

## 3.2 Set Up of Secure Connection

You must configure the secure connection between the SAP ERP or SAP S/4HANA system and SAP Cloud Platform Integration. More reference information can be found at [Application Help for SAP Cloud Platform Integration](#).

### i Note

The above listed link is maintained by the SAP Cloud Platform Integration team. If you encounter any issue in the linked documentation, please open a support ticket against the component `LOD-HCI-PI-OPS`.

## 3.3 Set Up SAP Cloud Platform Integration Tenants

SAP Cloud Platform Integration test/productive tenants are live.

## 3.4 Registration at Tax Authorities

- Registration with TRA is done for both eInvoice solution and Delivery Note solution.

- User credential from FIT is available for the respective VKNs.

# 4 Configuration Steps in SAP Cloud Platform Integration

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

## 4.1 General Information

The package *eDocument: eInvoice and Delivery Note for Turkey* contains two iFlows.

iFlows for eDocument: eInvoice and Delivery Note for Turkey

iFlow Name in WebUI	Project Names/Artifact Name
eDocument Turkey Delivery Note	eDocument Turkey Delivery Note
eDocument Turkey eInvoice	eDocument Turkey eInvoice

## 4.2 Deploying Customer Credentials to SAP Cloud Platform Integration Tenants

Credentials (username and password) for the endpoint must be obtained and stored in the tenant under the name below. It is important to note that credential for Delivery note iFlow and eInvoice iFlow might vary. User credentials should be obtained from FIT for both scenarios. You must copy the package for every company code. For example, *FIT\_eDelivery\_Connection* and *FIT\_eInvoice\_Credential*:

Name	Type	Status
FIT_eDelivery_Connection	Credentials	Deployed

Name	Type	Status
FIT_eInvoice_Credential	Credentials	Deployed

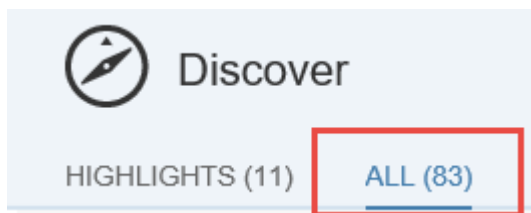
## 4.3 Copying Integration Flows

### Context

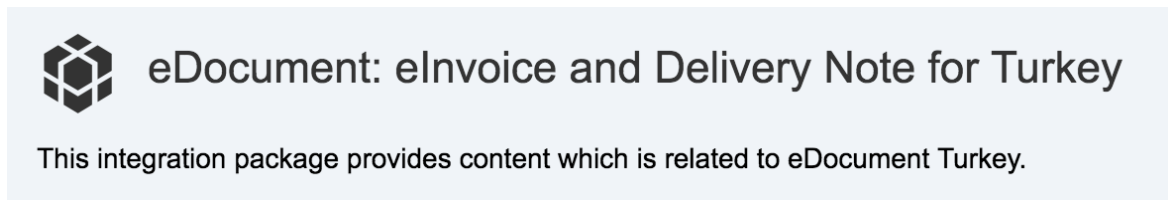
You copy the integration flows as per the implemented solution (Delivery Note or eInvoice) from the package *eDocument: eInvoice and Delivery Note for Turkey* to the target tenant as follows:

### Procedure

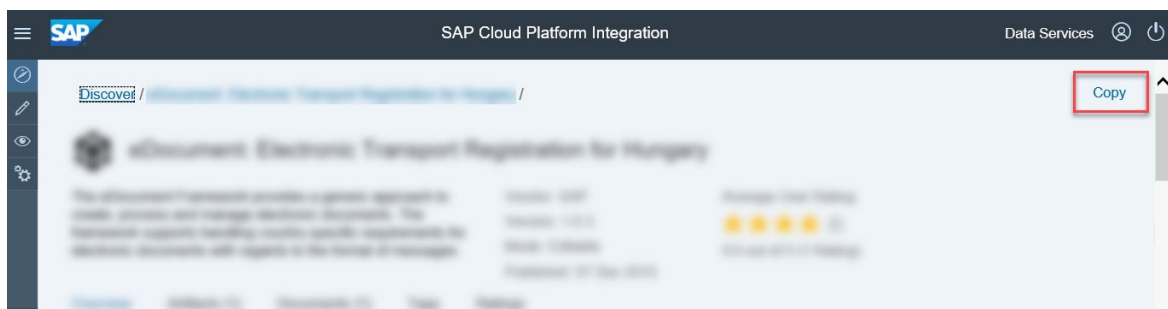
1. In your browser, go to the WebUI of the tenant (URL: <Tenant URL>/itspaces/#shell/catalog).
2. Choose **Discover** > **All**.



3. Search for eDocument: eInvoice and Delivery Note for Turkey.



4. Select the Package and choose **Copy**.





## 4.4 Configuring Integration Flows

### Context

You configure the package that you have copied as described in Copy Integration Flows.

There are 2 Artifacts in the integration package eDocument: eInvoice and Delivery Note for Turkey:

- eDocument Turkey Delivery Note
- eDocument Turkey eInvoice

### Procedure

1. Choose
  - [Actions](#) > [eDocument Turkey Delivery Note](#) to configure eDocument for Turkey Delivery Note.
  - [Actions](#) > [eDocument Turkey eInvoice](#) to configure eDocument for Turkey eInvoice.
2. Choose [Sender](#) tab. Use the [Address](#) parameter to set up the integration package address.

The screenshot shows the configuration interface for the 'Sender' tab. At the top, there are two tabs: 'Sender' (selected) and 'Receiver'. Below the tabs, the configuration is organized into sections. The 'Connection' section includes the following fields: 'Sender' (a dropdown menu with 'Sender' selected), 'Adapter Type' (a dropdown menu with 'SOAP' selected), 'Address' (a text input field containing '/Turkey/eDelivery'), and 'Authorization' (a dropdown menu with 'User Role' selected).

3. Choose [Receiver](#) tab. Configure the [Address](#) parameter and update credential name created as part of Deploy Customer Credentials to SAP Cloud Platform Integration Tenants.

The screenshot shows the configuration interface for the 'Receiver' tab. At the top, there are two tabs: 'Sender' and 'Receiver' (selected). Below the tabs, the configuration is organized into sections. The 'Connection' section includes the following fields: 'Receiver' (a dropdown menu with 'Receiver3' selected), 'Adapter Type' (a dropdown menu with 'SOAP' selected), 'Address' (a text input field containing 'https://efaturawstest.fitbulut.com:443//ClientEDespatchServicePort.svc'), and 'Credential Name' (a text input field containing 'FIT\_eDelivery\_Connection').

## Note

1. The test and production URLs for the two integration flows are:

eInvoice	Test URL for eInvoices	<a href="https://efaturawstest.fitbulut.com/ClientEInvoiceServices/ClientEInvoiceServicesPort.svc">https://efaturawstest.fitbulut.com/ClientEInvoiceServices/ClientEInvoiceServicesPort.svc</a>
	Test URL for consumer invoices (eArsiv)	<a href="https://earsivwstest.fitbulut.com/ClientEArsivServicesPort.svc">https://earsivwstest.fitbulut.com/ClientEArsivServicesPort.svc</a>
	Production URL for eInvoices	<a href="https://efaturaws.fitbulut.com/ClientEInvoiceServices/ClientEInvoiceServicesPort.svc">https://efaturaws.fitbulut.com/ClientEInvoiceServices/ClientEInvoiceServicesPort.svc</a>
	Production URL for consumer invoices (eArsiv)	<a href="https://earsivws.fitbulut.com/ClientEArsivServicesPort.svc">https://earsivws.fitbulut.com/ClientEArsivServicesPort.svc</a>
Delivery Note	Test URL	<a href="https://efaturawstest.fitbulut.com/ClientEDespatchServicePort.svc">https://efaturawstest.fitbulut.com/ClientEDespatchServicePort.svc</a>
	Production URL	<a href="https://efaturaws.fitbulut.com/ClientEDespatchServicePort.svc">https://efaturaws.fitbulut.com/ClientEDespatchServicePort.svc</a>

The URLs mentioned above are valid at the time of publishing this document. Always check the developer portal of Foriba ( <https://api.fitbulut.com/#/servis> ) to ensure that you use the correct and up-to-date endpoints.

2. Credentials may vary for same company code.

4. Choose *Save* and *Deploy* to deploy the integration flow actively to server. Note down the URLs of the endpoints for each service.

## 4.5 Creating Logical Ports in SOAMANAGER

### Context

The proxy has to be connected to the SAP Cloud Platform Integration tenant via logical port. In the test SAP ERP or SAP S/4HANA test system, the logical ports are configured to connect to the test SAP Cloud Platform Integration tenant. In the productive SAP ERP or SAP S/4HANA system, the logical ports are configured to connect to the productive SAP Cloud Platform Integration tenant.

### Procedure

1. In your SAP back-end system, go to the SOAMANAGER transaction and search for *Web Service Configuration*.

Service Administration | Technical Administration | Logs and Traces | Management Connections | Services F

**Identifiable Business Context**  
Define Identifiable Business Contexts (IBCs)

**Identifiable Business Context Reference**  
Define Identifiable Business Context references (IBC reference)

**Design Time Cache**  
Display central design time cache

**Web Service Configuration**  
Configure service definitions, consumer proxies and service groups

**Simplified Web Service Configuration**  
Configure service definitions for Web service consumers with limited capabilities

**Logon Data Management**  
Define logon data used by business scenario configuration

**Pending Tasks**  
Process pending tasks generated by business scenario configuration

**Local Integration Scenario Configuration**  
Configure multiple service definitions and service groups supporting change management

**Logical Determination of Receiver using ServiceGroups**  
Define rules for determining receiver IBC reference during service group runtime

**Logical Determination of Receiver, Sender, and Authentication using Consumer Factories**  
Define rules for determining receiver IBC, sender IBC reference and authentication method during consumer factory runtime

**Web Service Isolation**  
Tool to isolate service definitions and consumer proxies

- Find the proxies for eDocument for Turkey with search term `CO_EDO_TR*`.

Search criteria

Object Type is All

Object Name contains

Maximum Number of Results: 100

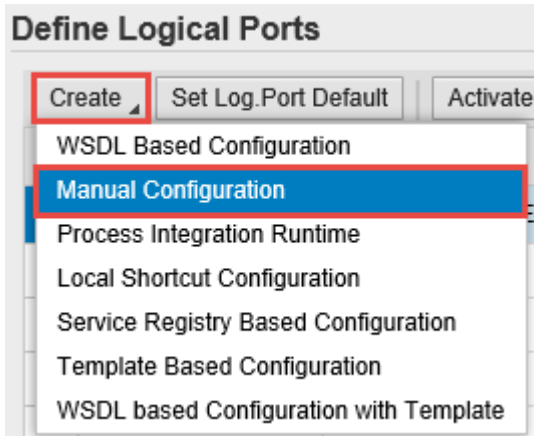
Search Clear values Reset search criteria

Enter the search term here

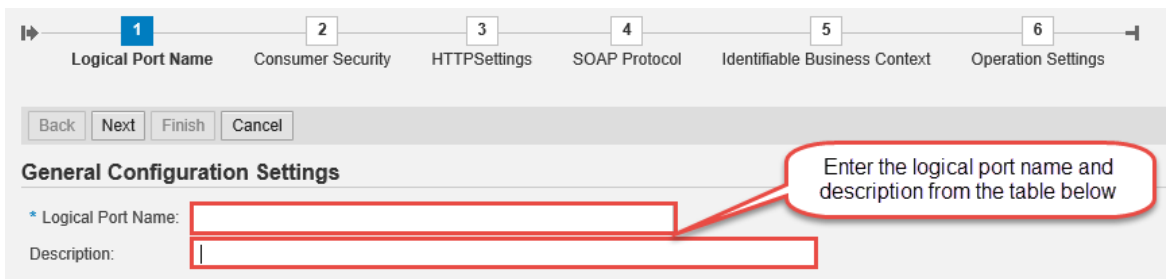
The following table lists the relevant proxies and their description:

Proxy Name	Description
CO_EDO_TR_CLIENT_EDESPATCH_SER	Turkey Delivery Note Services
CO_EDO_TR_CLIENT_EINVOICE_SERV	Turkey eInvoice: eFactura
CO_EDO_TR_CONS_INV_TRANSM_SERV	Turkey eInvoice: eArsiv

- In the *Result List*, select a proxy and create a logical port for each proxy. Choose **Create** **Manual Configuration**.



4. Enter the logical port name and description.



### Note

Ensure that the logical port configurations correspond to the settings you made during AIF setup as described in the attachments of the following SAP Notes:

- SAP Note [2214857](#) for eInvoicing
- SAP Note [2744568](#) for electronic delivery notes

5. The configuration you have made in *Consumer Security* tab on the *Configuration* screen depends on the security that is being used in the communication between the SAP back-end system and SAP Cloud Platform Integration.
  - If you use the basic authentication, select the *User ID / Password* and enter *User Name* and *Password*.

**New Manual Configuration of Logical Port for Consumer Proxy 'XXXXXXXXXX'**

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

Back   Next   Finish   Cancel

**Configuration of Consumer Settings without WSDL Document. LP=XXXXXXXXXX**

Authentication Level: Basic

**Authentication Settings**

User ID / Password  
 SAP Authentication Assertion Ticket  
 X.509 SSL Client Certificate

**User ID/Password**

User Name:   
Password:

- If you use certificate-based authentication, select *X.509 SSL Client Certification*. Ensure that the required certificates are available in the `STRUST` transaction.

**Note**

If you do not see this option or cannot select it, check SAP Note [2368112](#) and SAP Note [510007](#).

6. On the *HTTP Settings* tab, make the following entries:

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**

URL     URL components

\* Protocol:

\* Host:

Port:

\* Path:

Logon Language:

**Proxy**

Name of Proxy Host:   
Port Number of Proxy Host:   
User Name for Proxy Access:   
Password of Proxy User:

**Transport Binding**

Make Local Call:

\* Transport Binding Type:

Maximum Wait for WS Consumer:

Optimized XML Transfer:

Compress HTTP Message:

Compress Response:

Look up the host in Cloud Platform Integration Web UI

For each logical port, enter the path from the table above

Enter the proxy settings of your company's network

## i Note

The screenshots may look slightly different in your system depending on the release, but all the required fields should be available.

Port 443 is the standard port for the HTTPS protocol.

To find the Host, go to SAP Cloud Platform Integration Web UI and under *Managed Integration Content*, Choose ► *Monitor* ► *All* ► . Use search to find your integration flow as in the screenshot below:

1 Go to Operations View

2 Enter the iFlow name as search term

3 Copy the host name from here (the part between `https://` and `/cxf/`)

7. On the *SOAP Protocol* tab, set *Message ID Protocol* to Suppress ID Transfer.

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

8. No settings are required in the *Identifiable Business Context* tab, choose *Next*.
9. No settings are required in the *Operation Settings* tab, choose *Finish*.

## i Note

SAP Cloud Platform Integration does not support WebService Pin for testing your configuration.

You can set up a HTTP connection in the SM59 transaction. Maintain a host and a port of SAP Cloud Platform Integration service and execute a connection test. In case of a successful connection, you receive an error with HTTP return code 500.

# 5 Test Steps for Communication

## Context

To test the communication, the recommended practice is to create and send an eDocument from SAP ERP or SAP S/4HANA. The steps depend on how the system is configured to generate and send eDocuments.

## Procedure

1. Check if all relevant SAP Notes for the eDocument Full Solution for Turkey eInvoice and Delivery Note are installed and all the manual configuration steps have been performed.
2. Create a relevant document for eDocument for Turkey (for example, an eInvoice/Delivery Note document).

### 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 post an eInvoice/Delivery Note).

3. Go to *eDocument Cockpit*.
4. From the *Result Overview*, select the process for eDocument for Turkey.
5. Select the eDocument and choose *Submit* to trigger communication with SAP Cloud Platform Integration. On the right side of the *Cockpit* screen, the system displays the eDocuments that match the search.

### i Note

Based on your selection, a list of eDocuments is displayed. Find the one that you have just created and check the following:



- Check if the message went through on the SAP Cloud Platform Integration tenant; or you can use the trace from transaction `SRT_UTIL` to look at the XMLs transmitted via web services from SAP ERP or SAP S/4HANA.
- Double-click on the *Interface Message GUID* field to navigate to *AIF* and look at the log. Communication errors, if any, are displayed there.

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