



PUBLIC

2019-05-14

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

Content

- 1 Introduction. 3**
- 2 Prerequisites. 4**
 - 2.1 Set Up SAP Cloud Platform Integration Tenants. 4
 - 2.2 Registration at Tax Authorities. 4
- 3 Configuration Steps in SAP Cloud Platform Integration. 5**
 - 3.1 General Information. 5
 - 3.2 Deploying Customer Credentials. 5
 - 3.3 Copying Integration Flows. 6
 - 3.4 Configuring Integration Flows. 7
- 4 Configuration Steps for SAP S/4HANA Cloud. 9**
 - 4.1 Configuring Communication System. 9
 - 4.2 Configuring Communication Arrangement. 12
- 5 Testing the Communication. 14**

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 S/4HANA Cloud* 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 S/4HANA Cloud 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 S/4HANA Cloud the access to such functionality is only partially implemented. Additionally, it may also happen that the tax authority servers do not provide all services that are described in this document. Please refer to the relevant SAP S/4HANA Cloud documentation and to the relevant tax authority information, respectively.

2 Prerequisites

2.1 Set Up SAP Cloud Platform Integration Tenants

SAP Cloud Platform Integration test and productive tenants are live and users in the tenants have the rights to copy the integration package and to configure and deploy the integration flow.

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

When your tenants are provisioned, you receive the Tenant Management (TMN) URL. You need this URL for the configuration of the SAP S/4HANA Cloud.

2.2 Registration at Tax Authorities

You must ensure the following:

- You have completed registration at the tax authorities (TRA) for both the einvoice and the electronic delivery note solution.
- User credentials from the service provider (Foriba) is available for the relevant VKNs.

3 Configuration Steps in SAP Cloud Platform Integration

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

3.1 General Information

The package **eDocument: eInvoice and Delivery Note for Turkey** contains the following iFlows:

iFlows for Turkey eInvoice and Delivery Note

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

3.2 Deploying Customer Credentials

You must obtain user credentials (username and password) for the endpoint and deploy it to the SAP Cloud Platform Integration tenants.

i Note

Credentials for delivery note iFlow and eInvoice iFlow may vary.

You must obtain user credentials from the service provider (Foriba) for both scenarios. You must copy the package for each company code. For example:

Name	Type	Status
FIT_eDelivery_Connection	Credentials	Deployed

Name	Type	Status
FIT_eInvoice_Credential	Credentials	Deployed

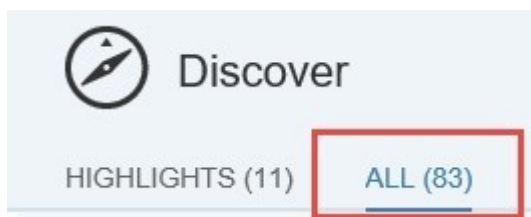
3.3 Copying Integration Flows

Context

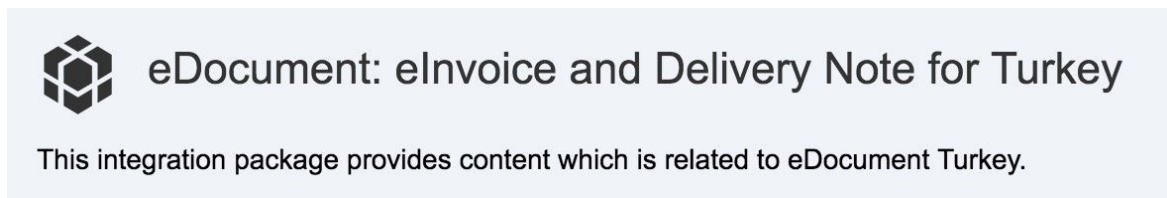
Copy all iFlows in the package *eDocument: eInvoice and Delivery Note for Turkey* to the target tenant as follows:

Procedure

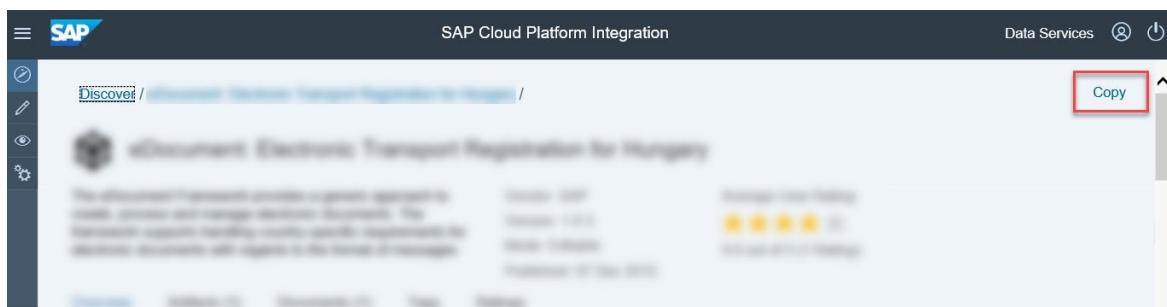
1. In your browser, go to the WebUI of the tenant (URL: <Tenant URL>/itspaces/#shell/catalog).
2. Choose **Discover** > **All** > .



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



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



3.4 Configuring Integration Flows

Context

You configure the package that you have copied as described in [Copying Integration Flows \[page 6\]](#). For Turkey, the following two artifacts are available in the integration package *eDocument: eInvoice and Delivery Note for Turkey*:

- eDocument Turkey Delivery Note
- eDocument Turkey eInvoice

For each iFlow, you must maintain several parameters as described below.

Procedure

1. Choose *Design* from the upper left corner of the page.
2. Click on the *eDocument: eInvoice and Delivery Note for Turkey* package.
3. Go to the *Artifacts* tab page.
4. Choose **► Actions ► Configure ▾** for the artifact you are configuring.
5. Choose the *Sender* tab. Use the *Address* parameter to set up the integration package address.

See the following example:

The screenshot shows the configuration interface for the 'Sender' tab. At the top, there is a header bar with a 'Sender' icon and the text 'Receiver'. Below this, the configuration is organized into sections. The 'Connection' section is highlighted. It contains four parameters: 'Sender' (set to 'Sender'), 'Adapter Type' (set to 'SOAP'), 'Address' (set to '/Turkey/eDelivery'), and 'Authorization' (set to 'User Role'). Each parameter is represented by a text input field or a dropdown menu.

Parameter	Value
Sender	Sender
Adapter Type	SOAP
Address	/Turkey/eDelivery
Authorization	User Role

6. Choose the *Receiver* tab and make settings as follows:

- Maintain the receiver URL in the *Address* field. For the service provider Foriba, you enter the test and production URLs as follows:

Receiver URLs for eInvoice

Environment	URL
TEST	https://efaturawstest.fitbulut.com/ClientEInvoiceServices/ClientEInvoiceServicesPort.svc
PRODUCTION	https://efaturaws.fitbulut.com/ClientEInvoiceServices/ClientEInvoiceServicesPort.svc

Receiver URLs for Delivery Note

Environment	URL
TEST	https://efaturawstest.fitbulut.com/ClientEDespatchServicePort.svc
PRODUCTION	https://efaturaws.fitbulut.com/ClientEDespatchServicePort.svc

- Update the name of the credential that you deployed to the SAP Cloud Platform Integration tenants (see [Deploying Customer Credentials \[page 5\]](#))

See the following example:

Sender
Receiver

Receiver:

Adapter Type:

Connection

Address:

Credential Name:

i Note

Credentials may vary for the same company code.

7. Choose *Save* and *Deploy* to deploy it actively to server. Note down the URLs of the endpoints for each service. Provide the endpoint URLs for FAcE in the externalized parameters of the iFlows for the test and productive tenants.

4 Configuration Steps for SAP S/4HANA Cloud

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

4.1 Configuring Communication System

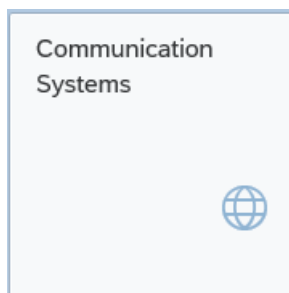
Configuration steps for SAP S/4HANA Cloud Communication System.

Prerequisites

1. Live SAP Cloud Platform Integration test or productive tenant must be available.
2. Communication management setups are not transportable and must be explicitly maintained in quality and production systems.
3. The SAP S/4HANA Cloud user, who is following this guide, must be assigned to the business catalog role SAP_BCR_CORE_COM (Communication Management) for accessing communication management application.

Procedure

1. Login to your S/4HANA Cloud tenant with the Cloud User.
2. Find and launch the application *Communication Systems*.



3. Choose *New*, and in the pop-up window, enter the *System ID* and *System Name*. Naming convention of *System ID* is EDOC_<name of SAP Cloud Platform Integration tenant>, for example, if the tenant host name is *v1234-tmn.avt.eu1.hana.ondemand.com*, then System ID is *EDOC_V1234*.

New Communication System

*System ID:

*System Name:

Create Cancel

4. Choose *Create*.
5. On the next page, enter the host name and port of your tenant. Host name can be entered by looking up in the SAP Cloud Platform Integration Web UI.

EDOC_V1234

Changed By: administrator John Editing Status: Draft
 Changed On: 08.10.2018, 12:13

General Data

*System ID: Notes:

*System Name:

Technical Data

General

*Host Name: UI Host Name:

Logical System: Business System:

HTTPS Port: Use Cloud Connector:

6. Scroll down, and choose + next to User for *Outbound Communication*.

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. In the new pop-up window, select the appropriate authentication method to connect to your SAP Cloud Platform Integration tenant, as described in the Implementation Guide.

New Outbound User

*Authentication Method: **User Name and Password**

*User Name:

*Password:

Cancel

- For authentication method User Name and Password, just add the login and password of the tenant user, which has roles, acceptable by integration flow for your implementation package.

New Outbound User

*Authentication Method: **User Name and Password**

*User Name:

*Password:

Create Cancel

- For authentication method SSL Client Certificate, certificate type Default Client Certificate is available. Select *Default Client Certificate* type and choose *Create*.

New Outbound User

*Authentication Method: **SSL Client Certificate**

Certificate Type: **Default Client Certificate**

Create Cancel

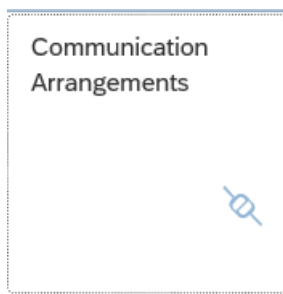
8. Choose [Save](#).

4.2 Configuring Communication Arrangement

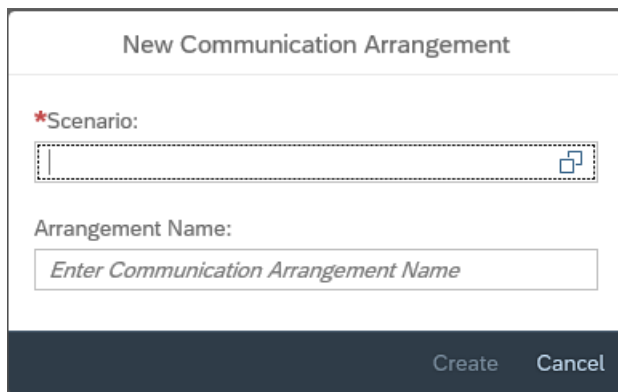
Configuration steps for SAP S/4HANA Cloud Communication Arrangement.

Procedure

1. Login to your S/4HANA Cloud tenant with the Cloud User.
2. Find and launch the application *Communication Arrangements*.



3. Choose *New*. In the new pop-up window, enter the scenario `SAP_COM_0419` (which is the one designated for communication with the tax authority via SAP Cloud Platform Integration package) and an *Arrangement Name*. For arrangement name, it is recommended to choose a name like `SAP_COM_0422_<name of SAP Cloud Platform Integration tenant>`, for example, `SAP_COM_0422_v1234` for tenant host name beginning with v1234-tmn.

A screenshot of the 'New Communication Arrangement' pop-up window. The window has a dark header with the title 'New Communication Arrangement'. Below the header, there is a field for '*Scenario:' with a search icon on the right. Below that is a field for 'Arrangement Name:' with a placeholder text 'Enter Communication Arrangement Name'. At the bottom of the window, there are two buttons: 'Create' and 'Cancel'.

4. Choose *Create*.
5. In the new window, choose the communication system created in the previous step (for example, `EDOC_v1234`) and the authentication method, relevant to the communication system.
 - If the authentication is by User ID, then select *User Name and Password* from the *Outbound Communication* list.

Common Data

Arrangement Name: Own System: 0LO8B8N

*Communication System: [Display](#)

Outbound Communication [Download](#) [Supported Authentication Methods](#)

*User Name: Authentication Method: User ID and Password

- If the authentication method is Default Client Certificate, download the certificate here and upload it to SAP Cloud Platform Integration.

Common Data

Arrangement Name: Own System: 0MB85VI

*Communication System: [Display](#)

Outbound Communication [Download](#) [Supported Authentication Methods](#)

*Certificate: [Display](#) Authentication Method:

6. Scroll down and enter the path part for your integration flow URL for all outbound services.

Outbound Services

▼ Turkey eInvoice Services [Download WSDL](#) [Check Connection](#)

Service Status: Active

Application Protocol: SOAP

Port:

Path:

Service URL:

▼ eDocument Turkey consumer invoice services [Download WSDL](#) [Check Connection](#)

Service Status: Active

Application Protocol: SOAP

Port:

Path:

Service URL:

7. Choose [Save](#).

5 Testing the Communication

Context

To test the communication, we recommend that you create and send an eDocument from SAP S/4HANA Cloud. The way you do this depends on how the system is configured to generate and send eDocuments. Follow the steps described below.

Procedure

1. Create a relevant document for eDocument for Turkey (for example, an Invoice or delivery note).

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 invoice or delivery note).



2. Go to the *eDocument Cockpit* app.
3. From the *Result Overview*, select the relevant process for Turkey.
4. Select the eDocument and choose *Submit* to trigger the communication with SAP Cloud Platform Integration. The system displays the eDocuments that match the search on the right side of the Cockpit.
5. From the list of eDocument displayed, find the one that you just created and check the following:
 - You can double-check if the message went through on the SAP Cloud Platform Integration tenant
 - 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.

Important Disclaimers and Legal Information

Hyperlinks

Some links are classified by an icon and/or a mouseover text. These links provide additional information.

About the icons:

- Links with the icon : You are entering a Web site that is not hosted by SAP. By using such links, you agree (unless expressly stated otherwise in your agreements with SAP) to this:
 - The content of the linked-to site is not SAP documentation. You may not infer any product claims against SAP based on this information.
 - SAP does not agree or disagree with the content on the linked-to site, nor does SAP warrant the availability and correctness. SAP shall not be liable for any damages caused by the use of such content unless damages have been caused by SAP's gross negligence or willful misconduct.
- Links with the icon : You are leaving the documentation for that particular SAP product or service and are entering a SAP-hosted Web site. By using such links, you agree that (unless expressly stated otherwise in your agreements with SAP) you may not infer any product claims against SAP based on this information.

Beta and Other Experimental Features

Experimental features are not part of the officially delivered scope that SAP guarantees for future releases. This means that experimental features may be changed by SAP at any time for any reason without notice. Experimental features are not for productive use. You may not demonstrate, test, examine, evaluate or otherwise use the experimental features in a live operating environment or with data that has not been sufficiently backed up.

The purpose of experimental features is to get feedback early on, allowing customers and partners to influence the future product accordingly. By providing your feedback (e.g. in the SAP Community), you accept that intellectual property rights of the contributions or derivative works shall remain the exclusive property of SAP.

Example Code

Any software coding and/or code snippets are examples. They are not for productive use. The example code is only intended to better explain and visualize the syntax and phrasing rules. SAP does not warrant the correctness and completeness of the example code. SAP shall not be liable for errors or damages caused by the use of example code unless damages have been caused by SAP's gross negligence or willful misconduct.

Gender-Related Language

We try not to use gender-specific word forms and formulations. As appropriate for context and readability, SAP may use masculine word forms to refer to all genders.

© 2019 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. The information contained herein may be changed without prior notice.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

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 <https://www.sap.com/about/legal/trademark.html> for additional trademark information and notices.