ONESOURCE™ E-Invoicing

SAP S4/HANA Integration

CONFIGURATION AND USER GUIDE

PRODUCT VERSION 1.2.0.0
Document Version 1.0

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DOCUMENT HISTORY

VERSION NUMBER	VERSION DATE	SUMMARY
1.0.0.0	Oct 2023	First Release1.0
1.1.0.0	Dec 2023	Release 1.1 ~ Support for countries with clearance model ~ Support for Supplier e-invoices
1.2.0.0	Mar 2024	Release 1.2

Table of Contents

Integration Overview

There is a rapid growth in countries mandating e-invoicing or continuous transaction control requirements globally as governments prioritize tax reform and real-time reporting, creating challenges for businesses to comply.

To help customers achieve complete e-invoicing compliance, Thomson Reuters has integrated with Pagero, a provider of an open business network that allows businesses all over the world to send and receive e-invoices using one single connection. ONESOURCE E-Invoicing is a centralized platform designed to streamline electronic invoicing management for multinational businesses who are being mandated to comply with e-invoicing regulations around the world.

ONESOURCE E-Invoicing also gives customers a single access point to manage e-invoicing compliance. It offers pre-built integrations that connect businesses' financial systems, including SAP S/4HANA, minimizing cost and effort to comply.

ONESOURCE E-Invoicing benefits customers managing e-invoice mandates, providing:

- **Centralized control** – E-invoicing compliance supported across networks and borders, managed within a single platform.
- **Reduced cost** – Lower implementation costs, effort, and ongoing maintenance with pre-built integrations for SAP, in addition to other direct API integrations.
- **Simplified data management** – Economies of scale across countries with universal data mapping.
- **Time saved** – Maximized invoice flow supporting a faster time to payment, with automated e-invoice validation and data enrichment.

The addition of e-invoicing enhances the ONESOURCE suite, and Thomson Reuters now provides businesses with an end-to-end solution for indirect tax compliance, from tax determination and e-invoicing to compliance filing.

Architecture and Design Overview
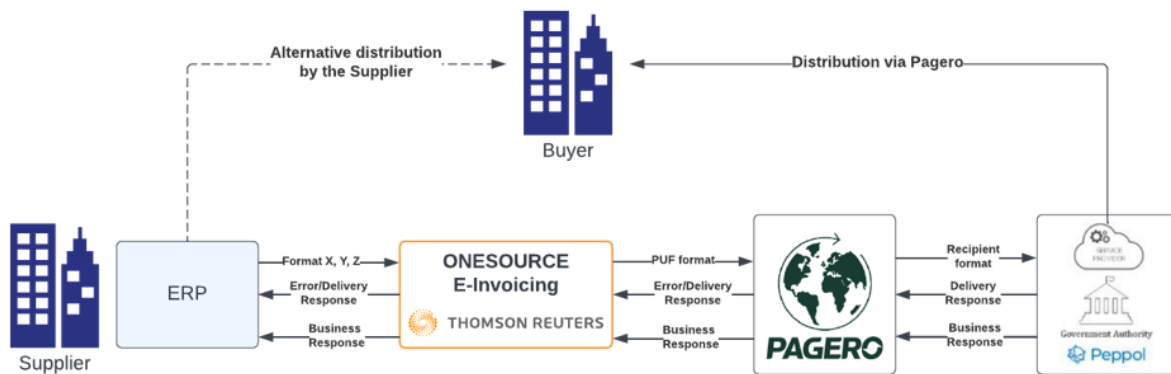
- The ONESOURCE E-Invoicing Integration for SAP S/4HANA will utilize SAP's e-document framework (Basic Solution) which allows Thomson Reuters to extract Financial Accounting (FI) or Sales and Distribution (SD) data. A corresponding e-document will be created and for processing from the e-document cockpit for further processing.

- TR's solution will perform the following functions:
    - ✓ Map the data to the required ONESOURCE E-Invoicing (OEI) JSON Structure.
    - ✓ Submit the payloads to the ONESOURCE E-Invoicing (OEI) Component.
    - ✓ Process responses & statuses

- Upon submission, the e-invoice will be sent to the Thomson Reuters ONESOURCE Electronic Invoice integration for validation and processing by Pagero and other electronic exchange authority e.g., PEPPOL.

Prerequisites

Please take the following into account before installing the ONESOURCE E-Invoicing Integration for SAP S/4HANA:
- Minimum supported SAP system version is S/4HANA 2021

- You have made the Customizing settings required in SAP S/4HANA for the country you are implementing; For more information, refer to country-specific customizing specific for each country.

Supported Business Process

Electronic Customer Invoices

This section describes the supported processes for this integration using the eDocument Cockpit (EDOC_COCKPIT) transaction.

NOTE : Access to the E-doc cockpit and related standard SAP transactions are regulated using pre-existing standard SAP authorization objects, as outlined here: https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/80a58aef89b3425f8c334dc588567789/aa4d5070431d49fa95c4801e43ef7e86.html

Processing Customer Invoices

This process supports the creation of electronic documents for invoices created in the SD or FI module and submit them electronically to the ONESOURCE E-Invoicing Integration for SAP S/4HANA

Procedure:

1. Post an invoice (SD or FI) in SAP S/4HANA
   When an invoice gets posted, the solution will automatically create a corresponding e-Document record in the eDocument Cockpit

   Example: Call Up Transaction VF01, enter delivery number and hit enter. Billing 90000952 generated.
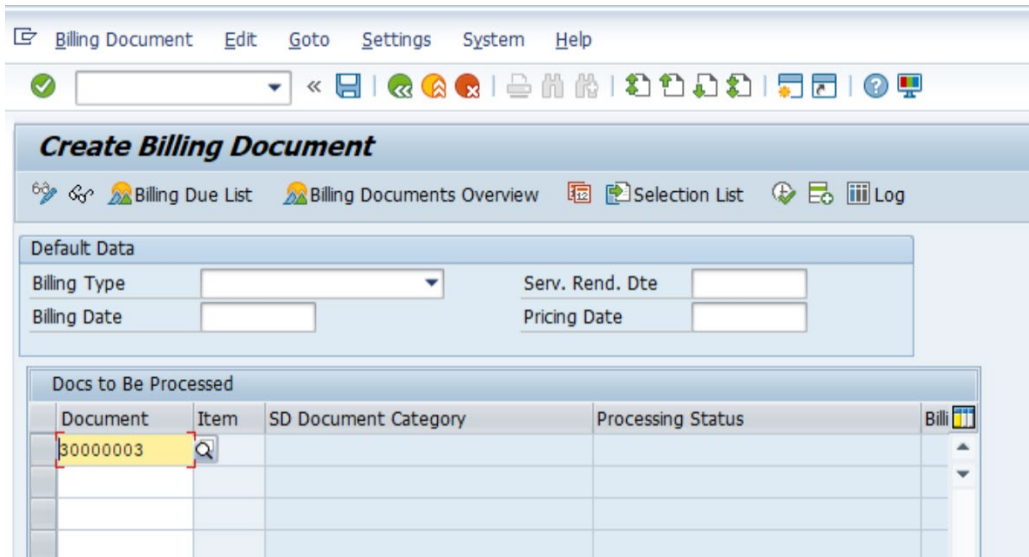
A sales document is posted.
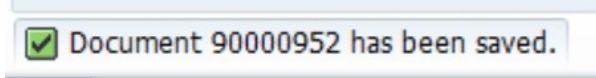
Open the transaction EDOC_COCKPIT. A corresponding e-document with the same Billing document is created and ready for processing.
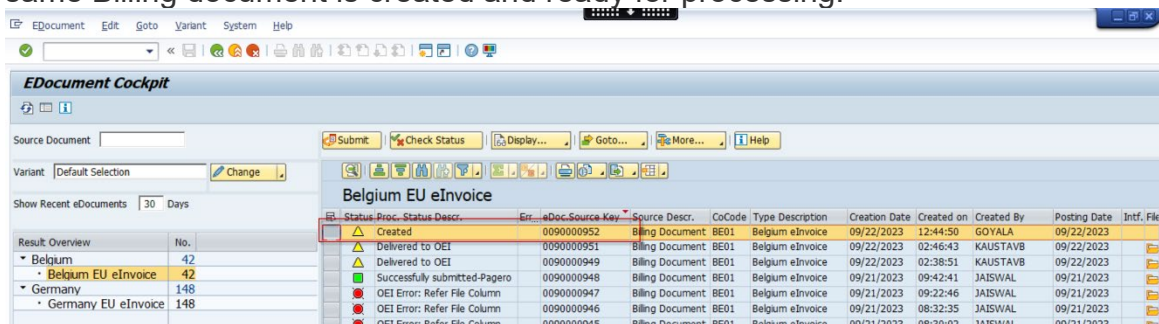
2. Select the e-Document and submit to ONESOURCE E-Invoicing (OEI) Solution for further processing by clicking "Submit"

The solution creates a JSON payload according to the ONESOURCE E-Invoicing (OEI) format and forwards it to ONESOURCE E-Invoicing (OEI)

Xml file display: Select the document line, Hit Display -> Display


```xml
<?xml version="1.0" encoding="UTF-8"?>
- <asx:abap xmlns:asx="http://www.sap.com/abapxml" version="1.0">
  - <asx:values>
    - <SOURCE>
        <ID>0E8978F1268B1EDE96A92ACBEBF88352</ID>
        <DOCUMENTNUMBER>0090000955</DOCUMENTNUMBER>
        <DUEDATE>2023-09-22</DUEDATE>
        <ISSUEDATE>2023-09-22</ISSUEDATE>
      - <EDOCUMENTTYPE>
          <NAME>INVOICE</NAME>
          <VALUE>INV</VALUE>
        </EDOCUMENTTYPE>
        <CUSTOMERTYPE>B2B</CUSTOMERTYPE>
        <TAXPOINTDATE>2023-09-22</TAXPOINTDATE>
        <EDOCUMENTCURRENCYCODE>EUR</EDOCUMENTCURRENCYCODE>
      - <ACCOUNTINGSUPPLIERPARTY>
        - <PARTY>
          - <PARTYENDPOINTID>
              <VALUE>BE0999999999</VALUE>
              <SCHEMEID>9925</SCHEMEID>
            </PARTYENDPOINTID>
          - <PARTYIDENTIFICATIONID>
              <VALUE>BE015196782</VALUE>
              <SCHEMEID>0088</SCHEMEID>
            </PARTYIDENTIFICATIONID>
            <PARTYNAME>Belgium Global Tax</PARTYNAME>
          - <POSTALADDRESS>
              <POSTBOX>143</POSTBOX>
              <STREETNAME>Route de Neufchateau</STREETNAME>
              <ADDITIONALSTREETNAME/>
              <BUILDINGNUMBER/>
              <DEPARTMENT/>
              <PLOTIDENTIFICATION/>
              <CITYSUBDIVISIONNAME/>
              <CITYNAME>Heks</CITYNAME>
```
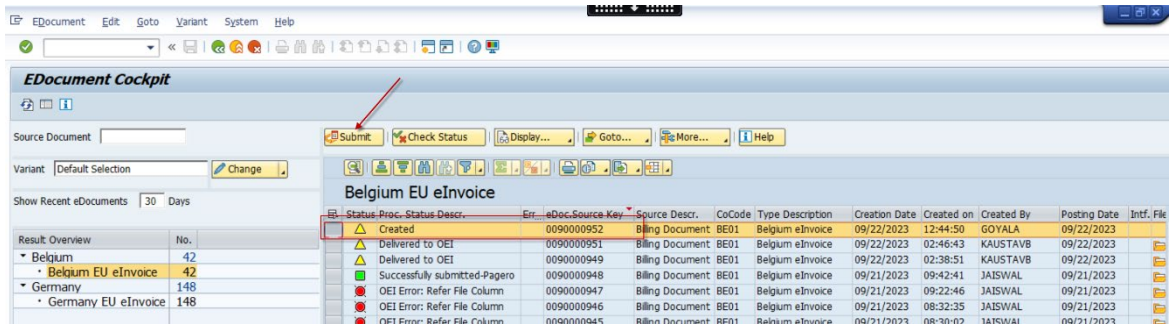
Once the e-document is submitted, the status changes to "Delivered to OEI"

1. ONESOURCE E-Invoicing (OEI) performs the required validations and if the payload fails the OEI validations, it will return an OEI Error Message. Click on the attachment under the column "File" to view and analyze the error messages.

4. SAP S/4HANA updates the process status of the eDocument.

⚠ Submission of the electronic documents to ONESOURCE E-Invoicing (OEI) can be automated using background programs and jobs.

⚠ Other supported document types for electronic documents include Credit Memos, Debit Memos and Pre-Payments.

Checking Status of Electronic Documents

Throughout the lifecycle of the electronic document from the time of invoice submission from SAP to the Thomson Reuters ONESOURCE E-invoice component, you may be able to check and receive statuses of electronic documents.

Procedure:
Select the e-Document and click on the **CHECK STATUS** button from the e-Document transaction.
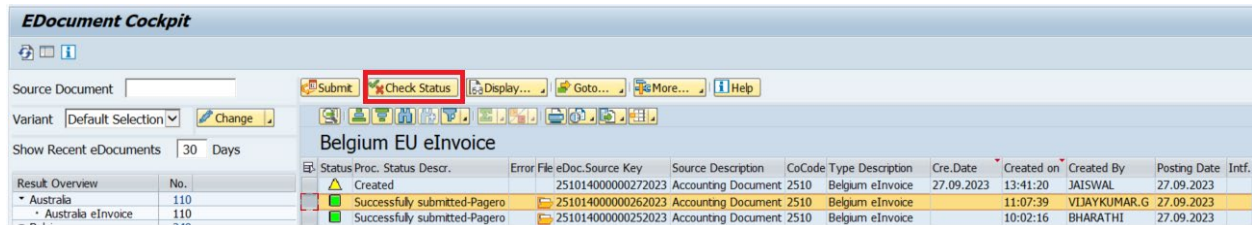
Checking statuses of the electronic documents can be automated using background programs and jobs.

The table below shows the possible statuses of electronic documents and their corresponding resulting actions.

Status	Description	Required Action
INP ⚠ In Progress - Pagero	In Progress by ONESOURCE E-Invoicing (OEI)	None
SUB 🟩 Successfully submitted-Pagero	Success. Electronic document has been received by the government or another assigned authority	None
ERR 🔴 Error - Pagero	Validation error by ONESOURCE E-Invoicing (OEI)	Refer to the error description and make the necessary corrections. Refer to the section Statuses and Error Handling.

Receiving Business Responses

In this process, you will be able to receive business responses from resulting actions of the receiver (the buyer) of the electronic document. These responses will be received as part of the CHECK STATUS process.

For example, a technically correct invoice may have been received, however, the buyer decides to reject the invoice due to a business reason e.g. incorrect reference, missing PO numbers, etc.

The table below shows the possible statuses of electronic documents and its corresponding resulting actions.

Status	Description	Required Action
BUA	Business Acceptance	None

| BUR	Business Rejection	Refer to the section Statuses and Error Handling.

Electronic Supplier Invoices

Receiving Supplier Invoices

This process supports the creation of electronic documents for invoices sent by supplier to Pagero through ONESOURCE E-Invoicing Integration for SAP S/4HANA

Procedure:

1. Receiving Supplier Invoice from ONESOURCE E-Invoicing,
   When an invoice is received, the system will automatically generate a corresponding e-Document record in the eDocument Cockpit
   Go to transaction EDOC_COCKPIT. A corresponding e-document document is created.
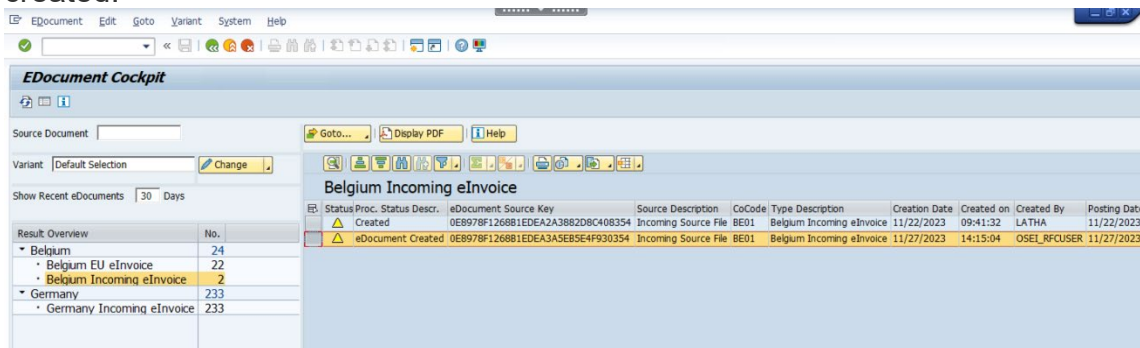
3. Select the e-Document and submit to ONESOURCE E-Invoicing (OEI) Solution for further Display"

   To display the XML file, select the document line, Click on Goto->Source Document

EDocument Cockpit

Source Document [   ]

Goto...   Display PDF   Help

Source Document
History

Belgium Incoming eInvoice

Status	Proc. Status Descr.	eDocument Source Key	Source Description	CoCode	Type Description	Creation Date	Created on	Created By	Posting Date
⚠	Created	0E8978F1268B1EDEA2A3882D8C408354	Incoming Source File	BE01	Belgium Incoming eInvoice	11/22/2023	09:41:32	LATHA	11/22/2023
⚠	eDocument Created	0E8978F1268B1EDEA3A5EB5E4F930354	Incoming Source File	BE01	Belgium Incoming eInvoice	11/27/2023	14:15:04	OSEI_RFCUSER	11/27/2023

Variant Default Selection   Change

Show Recent eDocuments 30 Days

Result Overview	No.
▼ Belgium	24
• Belgium EU eInvoice	22
• Belgium Incoming eInvoice	2
▼ Germany	233
• Germany Incoming eInvoice	233

EDocument Cockpit

```xml
<?xml version="1.0" encoding="UTF-8"?>
- <asx:abap xmlns:asx="http://www.sap.com/abapxml" version="1.0">
    - <asx:values>
        - <SOURCE>
            <ID>ac4c3f7a-e00a-4be0-a24f-6e76210d5ce1</ID>
            <DOCUMENTNUMBER>SAK_1701094209</DOCUMENTNUMBER>
            <SOURCESYSTEM/>
            <ISSUEDATE>2023-11-02</ISSUEDATE>
            <ISSUETIME/>
            <DUEDATE>2023-07-20</DUEDATE>
            - <EDOCUMENTTYPE>
                <NAME/>
                <VALUE>INV</VALUE>
            </EDOCUMENTTYPE>
            <CUSTOMERTYPE>B2B</CUSTOMERTYPE>
            <DESCRIPTIONS/>
            <TAXPOINTDATE/>
            <EDOCUMENTCURRENCYCODE>AED</EDOCUMENTCURRENCYCODE>
            <TAXCURRENCYCODE>USD</TAXCURRENCYCODE>
            <ACCOUNTINGCOST/>
            <BUYERREFERENCE/>
            <EDOCUMENTPERIODS/>
            - <ORDERREFERENCE>
                <ID/>
                <SALESORDERID/>
                <ISSUEDATE/>
            </ORDERREFERENCE>
            <BILLINGREFERENCES/>
            <DESPATCHDOCUMENTREFERENCES/>
            <RECEIPTDOCUMENTREFERENCES/>
            <ORIGINATORDOCUMENTREFERENCES/>
            <CONTRACTDOCUMENTREFERENCES/>
            <ADDITIONALDOCUMENTREFERENCES/>
            <PROJECTREFERENCES/>
            - <ACCOUNTINGSUPPLIERPARTY>
                - <PARTY>
                    - <PARTYENDPOINTID>
                        <VALUE>BE0999999991</VALUE>
                        <SCHEMEID>
```
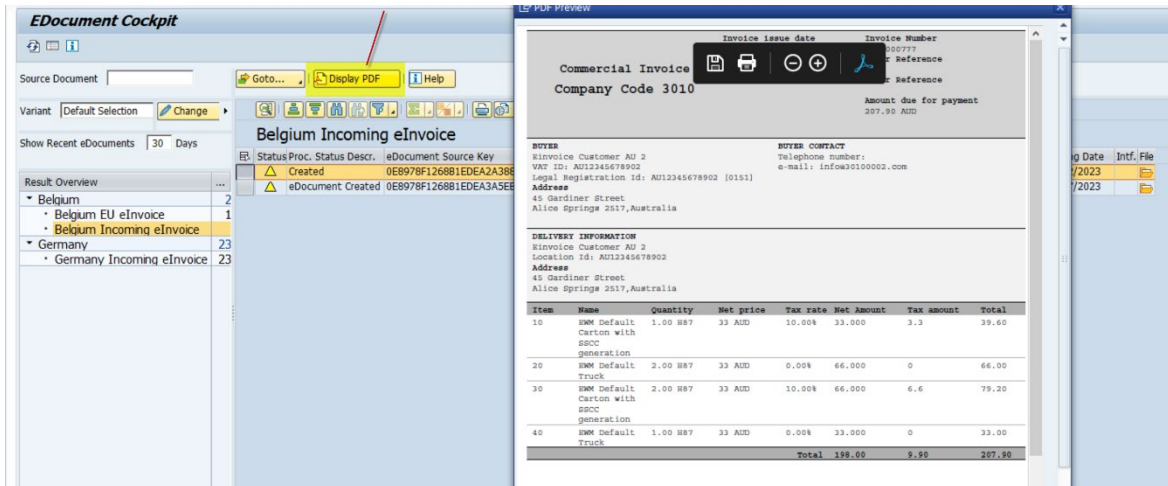
4. To display the invoice in a human readable format, select the e-Document and click Display PDF for Display.

Implementing Incoming Automatic Invoice Solution

At this point, we are not offering an incoming invoice solution to automatically post the electronic supplier invoice.

You may, however, implement your own incoming automation solution by Implementing the BAdI eDocument Incoming Automation (EDOC_INCOM_CONNECTOR).

Sending Back Business Response

In this process, you will have the capability to communicate acceptance or rejection statuses back to OEI and Pagero for subsequent processing.

To send back a business response, first select the relevant e-document item from the eDocument Cockpit. Click the button 'Send Business Response to OEI ' from which either 'Accept eDocument' or 'Reject eDocument' option needs to be selected.
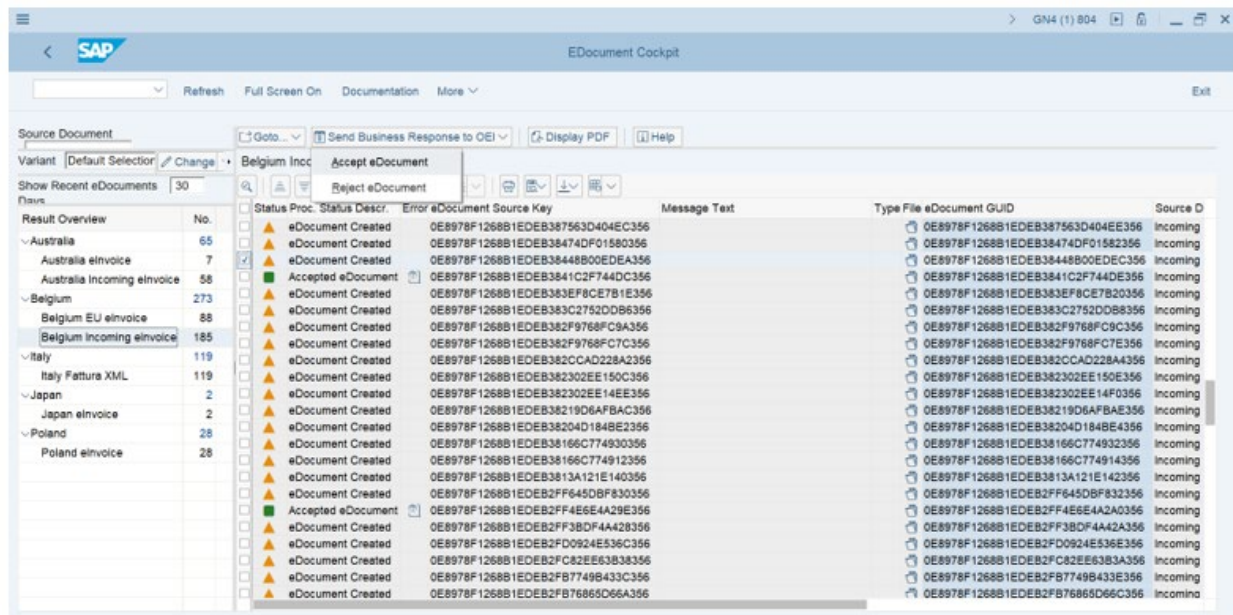
After selecting the desired option, the status of the chosen eDocument is relayed to OEI, subsequently updating SAP to reflect either 'Accept' or 'Reject'.

In the event of an error during the transmission of the status to OEI, the status of the eDocument in SAP remains unchanged. Following necessary corrections, the business response for the eDocument can be reprocessed accordingly."

# Installation and Set Up

Importing Transport Objects

As part of the setting up of this Integration, you will have to import the Thomson Reuters provided transports. Import the provided transports in the following order:

Transport	Content
GN4K901106	ONESOURCE E-Invoicing Integration SAP S/4HANA 1.2.0.0 - Code
GN4K901107	ONESOURCE E-Invoicing Integration SAP S/4HANA 1.2.0.0-Config
GN4K901105	ONESOURCE E-Invoicing Integration SAP S/4HANA 1.2.0.0 - Role

BADI Implementation

Procedure:

Create custom implementation of the BADI **EDOC_INTERFACE_CONNECTOR** in transaction **SE18**.
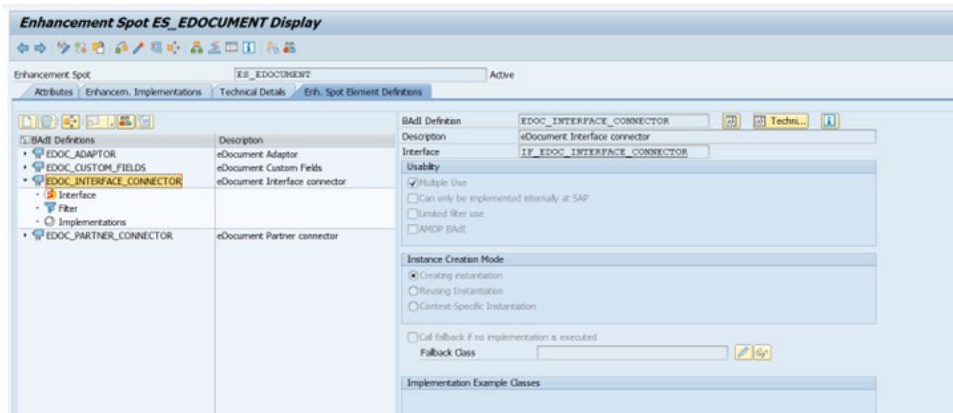
Maintain filters for the countries in scope. As an example, it would be countries Australia (AU), Belgium (BE) or Japan (JP).

Add include – **/TROSEI/DISPLAY_EDOCUMENT** in the method DISPLAY_DOCUMENT.

Add include – **/TROSEI/INTF_CONN_TRIGGER** in the method TRIGGER.

Change Field BADI

A custom BADI **/TROSEI/BADI_EDOC_COCKPIT** is provided as part of the TR standard package.

This BADI is used to adjust/modify the customer (AR or FI) e-invoice request which is sent to OEI. This BADI has a changing parameter which is in the request with the implementation class method - "add_custome_field_value".

Changes carried out in this implementation method will overwrite the values of the standard mapping of the source (SAP) to target (ONESOURC E-invoicing) fields.

⚠️ This BADI implementation is independent of any filter values and is not designed as a multi-use BADI.

The screen below shows an illustration of the BADI implementation -


Reviewing BTE Events

Business Transaction Event (BTE) is required to enable the creation of electronic documents using the **eDocument Cockpit** (EDOC_COCKPIT) transaction. You may

already have this pre-installed on your system, this step is to review the configuration for completeness.

Procedure
1. Go to transaction **FIBF.**
2. choose **More** > **Settings >Identification** > **SAP Applications**.
3. Ensure the application **EDOC** is checked.
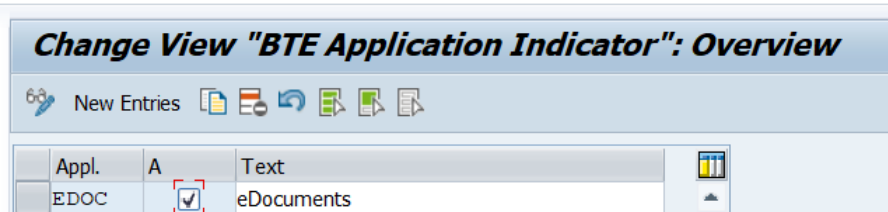
Review also the supported functions for e-documents.

Procedure
1. From transaction FIBF, go to More >Settings > P/S Modules… of an SAP Application.

2. Register the following function modules:

Adding User Menu to a Role

For users to be able to access the setup and configurations for this integration, we delivered an SAP User Menu. You would need to provide users with access to the /TROSEI/GENERAL role.

We have created a transport request containing a custom role encompassing all pertinent transaction codes for TR functionality. Your security team can assign this role to designated users who require access to these configuration items. Typically, we defer to our customers to tailor and allocate the S_TCODE authorization object within the role according to their established security protocols.

Presently, there are no additional authorization objects to differentiate between read-only (display access) and create/change/delete (edit access). The intent here is to limit edit/administrative rights to specific users solely for these transaction codes. Customers can customize their own roles based on their access controls.

S/4 HANA 2022 Compatibility

Activate Business Function

If you are on S/4HANA 2022 version and above, additionally you are required to activate the document compliance business function CA_EDOC.

Procedure
1. Go to T-code **SFW5** and expand the ENTERPRISE_BUSINESS_FUNCTIONS node and navigate to the item **CA_EDOC**.
2. Select this item, click on the Planned Status checkbox and click on Activate Changes. This will trigger a background process to activate the switch.

Italy Process Toolbar Configuration

For S/4 HANA version 2022 (Component S4CORE, release 107) and onwards, an additional enhancement should be implemented for the method **GET_PROCESS_ACTIONS** of the class **CL_EDOC_SEL_TOOLBAR_UI (CL_EDOC_SEL_TOOLBAR_UI-> GET_PROCESS_ACTIONS**).

This enhancement is required to activate the custom Thomson Reuters toolbar and its associated functionalities within the eDocument cockpit of the Thomson Reuters e-Invoicing solution, particularly for countries where SAP has populated data in the EDOPROCFUNCASG table for specific eDocument processes, such as the Italy process ITFATTURA.

A pre-exit enhancement for the method **CL_EDOC_SEL_TOOLBAR_UI-> GET_PROCESS_ACTIONS** should be implemented. Call the include program **/TROSEI/SET_REF_PROCESS** within the pre-exit method, as shown below.

NOTE: If the version of your S/4 HANA system is prior to 2022, it is NOT necessary to implement the mentioned additional enhancements.

Setting Up the Connection

To establish connectivity to ONESOURCE E-Invoicing (OEI) system, the following configuration activities need to be set in in SAP S/4HANA:

Create OAUTH Profile

⚠️ This configuration is transportable via Transport Request

Procedure

1. Go to T-code **SE80**
2. Choose the appropriate package, right-click and choose **Create > Others > OAuth 2.0 Client Profile**

3. Enter name: ZONESOURCE, Type: Default,
   Scope: Obtain the scope information for the respective TROEI environments (UAT or PRD) from your Professional Services team

Reference screen shot below

4. Save the configuration.

Create OAUTH Configuration

⚠️ This configuration needs to be done manually for every client.

Procedure

1. Open transaction code **OA2C_CONFIG**

2. Click on Create

3. You will need to input the following information:
   - ➢ Service Provider Type: DEFAULT
   - ➢ Profile: ZONESOURCE

- ➢ Configuration Name: ZOSEI
- ➢ Client ID: <Provided by TR during on-boarding>
- ➢ Client Secret: <Provided by TR during on-boarding>
- ➢ Authorization endpoint: <Provided by TR during on-boarding>
- ➢ Token endpoint: <Provided by TR during on-boarding>
- ➢ Client Authentication: Basic
- ➢ Grant Type: Client Credentials

4. Save. In the end, it should look like the following:

SAP OAuth 2.0 Clients

∨ Overview

| ✎ Edit | 🖫 Save | 🗋 Create ... | 🗑 Delete | ◆ SAML 2.0 Disabled | ✎ SAML 2.0 Settings | 🗑 SAML 2.0 Settings |

	Service Provider Type	Profile	Configuration Name	OAuth 2.0 Client ID
⦿	DEFAULT	ZONESOURCE	ZOSEI	euCuyCGcZtzjj3y3ipwQOYGOGzkaOYpN
○				
○				
○				
○				
○				
○				
○				
○				
○				

∨ Details

Administration   Scopes   Enhancement Settings

Created By FABIOB Created On 05.09.2023 Created At 12:23:21 Changed By FABIOB Changed On 05.09.2023 Changed At 12:23:21

General Settings

Service Provider Type: DEFAULT
Profile: ZONESOURCE
Configuration Name: ZOSEI
OAuth 2.0 Client ID: euCuyCGcZtzjj3y3ipwQOYGOGzkaOYpN
OAuth 2.0 Client ID (Internal): 0E8978F1268B1EDE92FCD768AC660351
Client Secret: ●●●●●●●●●●●

Authorization Server Settings

Authorization Endpoint: https:// api-cloud-dev2.onesourcetax.com/oauth2/v1/token
Token Endpoint: https:// api-cloud-dev2.onesourcetax.com/oauth2/v1/token
Revocation Endpoint: https://

Access Settings

Client Authentication: ⦿ Basic
○ Form Fields
○ Client Certificate

Resource Access Authentication: ⦿ Header Field
○ Form Field

Selected Grant Type: ○ Current user related
○ Resource Owner Password Credentials
⦿ Client Credentials

Grant Type (Current User related): ☐ Authorization Code

☐ SAML 2.0 Bearer Assertion

Redirection URI Server: https:// gn4hanaapp.int.thomsonreuters.com:8553
Redirection URI: https://gn4hanaapp.int.thomsonreuters.com:8553/sap/public/bc/sec/oauth2/client/redirect?sa...
Target Endpoint: /sap/bc/webdynpro/sap/OA2C_GRANT_APP

SAML 2.0 Audience:
SAML 2.0 Recipient: https://api-cloud-dev2.onesourcetax.com/oauth2/v1/token
User E-Mail for SAML 2.0 Name ID: 000

Resource Owner Password Credentials: ⦿ Request Tokens ...

Refresh Token Validity: -1 [in days]
Clock Skew Tolerance: 5 [in seconds]

Proxy Host:
Proxy Port:
Proxy User:
Proxy Password:

SSL Client PSE:
mTLS Token Endpoint Alias: https://
mTLS granttype = client_x509 (SAP XSUAA): ☐

Establish a HTTP connection using a destination (SM59)

Procedure

Go to transaction **SM59** and create RFC connections with type "G" (HTTP Connections to Ext Server) for each ONESOURCE E-Invoicing (OEI) endpoints as shown below:

1. **EINVOICE_OSEI_SEND**
   a. Host: Obtain the Host URL for the respective TROEI environments (UAT or PRD) from your Professional Services team
   b. Port: 443
   c. Path Prefix: Obtain the prefix for the respective TROEI environments (UAT or PRD) from your Professional Services team
   d. Oauth Settings
      i. Profiles: ZONESOURCE
      ii. Configuration: ZOSEI

Reference screen shot below:

RFC Destination	EINVOICE_OSEI_SEND			
Connection Type	G	HTTP Connection to External Server		Description

Description

Description 1	EINVOICE_OSEI_SEND
Description 2	
Description 3	

Administration ╱ Technical Settings ╱ Logon & Security ╱ Special Options

Target System Settings

Host	api-uat.onesourcetax.com	Port	443
Path Prefix	/einvoicing/documents/eap/		

HTTP Proxy Options

Global Configuration

Proxy Host	
Proxy Service	
Proxy User	
Proxy PW Status	is initial

Connection Test

RFC Destination   EINVOICE_OSEI_SEND
Connection Type   G   HTTP Connection to External Server   Description
Description
Description 1   <fill in description>
Description 2
Description 3

Administration   Technical Settings   Logon & Security   Special Options

Logon Procedure
Logon with User

OAUTH Settings   ✕

Profiles   ZONESOURCE
Configuration   ZOSEI

                    ✓ Continue   ✗ Reject Settings

● Do not use a user
○ Basic Authentication
    User
    PW Status   is initial

Logon with Ticket
● Do not send logon ticket
○ Send ticket without reference to target system
○ Send assertion ticket for dedicated target system
    System ID   Client

Logon with MQTT/AMQP
    User
    PW Status   is initial

Security Options
Status of Secure Protocol
SSL   ○ Inactive   ● Active
SSL Certificate   ANONYM SSL Client (Anonymous)   ∨   Cert. List
☐ Do not use certificate for logon

Authorization for Destination

2. EINVOICE_OSEI_CANC
   a. Host: Obtain the Host URL for the respective TROEI environments (UAT or PRD) from your Professional Services team
   b. Port: 443
   c. Path Prefix: Obtain the scope information for the respective TROEI environments (UAT or PRD) from your Professional Services team

Reference screen shot below:

RFC Destination	EINVOICE_OSEI_CANC		
Connection Type	G	HTTP Connection to External Server	Description

Description

Description 1	EINVOICE_OSEI_CANC
Description 2	
Description 3	

| Administration | Technical Settings | Logon & Security | Special Options |

Target System Settings

Host	api-uat.onesourcetax.com	Port	443
Path Prefix	/einvoicing/documents/eap/		

HTTP Proxy Options

Global Configuration

Proxy Host	
Proxy Service	
Proxy User	
Proxy PW Status	is initial

RFC Destination	EINVOICE_OSEI_CANC		
Connection Type	G	HTTP Connection to External Server	Description

Description

Description 1	EINVOICE_OSEI_CANC
Description 2	
Description 3	

Administration	Technical Settings	**Logon & Security**	Special Options

Logon Procedure

Logon with User

- ● Do not use a user   [OAuth Settings]
- ○ Basic Authentication
  - User [ ]
  - PW Status is initial

Logon with Ticket

- ● Do not send logon ticket
- ○ Send ticket without reference to target system
- ○ Send assertion ticket for dedicated target system
  - System ID [ ]   Client [ ]

Logon with MQTT/AMQP

- User [ ]
- PW Status is initial

Security Options

Status of Secure Protocol

SSL	○ Inactive ● Active
SSL Certificate	ANONYM SSL Client (Anonymous) ∨	Cert. List
☐ Do not use certificate for logon	

Authorization for Destination [ ]

3. **EINVOICE_OSEI_STATUS**
   a. Host: Obtain the Host URL for the respective TROEI environments (UAT or PRD) from your Professional Services team
   b. Port: 443
   c. Path Prefix: Obtain the scope information for the respective TROEI environments (UAT or PRD) from your Professional Services team

RFC Destination EInvoice_OSEI_STATUS_RFC

Connection Type G HTTP Connection to External Server   Description

Description

Description 1	Check Status RFC OEI
Description 2	
Description 3	

Administration | **Technical Settings** | Logon & Security | Special Options

Target System Settings

| Host | api-uat.onesourcetax.com | Port | 443 |
| Path Prefix | /einvoicing/documents/eap/ | | |

HTTP Proxy Options

Global Configuration

Proxy Host	
Proxy Service	
Proxy User	
Proxy PW Status	is initial

Logon Procedure

Logon with User

● Do not use a user   OAuth Settings
○ Basic Authentication
    User
    PW Status   is initial

Logon with Ticket

● Do not send logon ticket
○ Send ticket without reference to target system
○ Send assertion ticket for dedicated target system
    System ID   Client

Logon with MQTT/AMQP

| User | |
| PW Status | is initial |

Security Options

Status of Secure Protocol

| SSL | ○ Inactive   ● Active |
| SSL Certificate | ANONYM SSL Client (Anonymous) ⌄ Cert. List |

☐ Do not use certificate for logon

Authorization for Destination

4. EINVOICE_AP_BUSINESS_RESPONSE
a. Host: Obtain the Host URL for the respective TROEI environments (UAT or PRD) from your Professional Services team
b. Port: 443
c. Path Prefix: Obtain the prefix for the respective TROEI environments (UAT or PRD) from your Professional Services team
d. Oauth Settings
   i. Profiles: ZONESOURCE
   ii. Configuration: ZOSEI

Maintain the required entries by calling transaction **/TROSEI/RFCDTL** with the RFC destinations created above. For each API Type maintain the RFC Destinations you have created in the steps above.

Receiving Supplier electronic invoices

This section lists out the steps required to connect your SAP S/4 HANA system to ONESOURCE E-Invoice (OEI) for receiving and processing of supplier electronic invoices.

ODATA for Supplier Electronic Invoices

As part of the transport package an API(OData) will be available in the SAP S4 system. OData service name is   - **/TROSEI/EINV_PROJ_SRV.**
Supported authentication method - **Basic Authentication**.

After importing the transport objects into your SAP S/4HANA system, perform the following steps:

1) Register and activate the OData service mentioned above, using transaction **/IWFND/MAINT_SERVICE.**

2) Using the same transaction, add any missing System Alias.

3) Create SAP user credentials with all the required authorization to call the service.

4) Configure the OData service endpoint and user credentials w**ithin the ONESOURCE E-Invoice application.** Refer to section **Maintaining connectivity settings in ONESOURCE E-Invoice Application**

Example of the OData service endpoint:

```
https://gn4hanaapp.int.thomsonreuters.com:8553/sap/opu/odata/TROSEI/EINV_PROJ_SRV/eInvoiceSet?
```

On the ONESOURCE Electronic platform, navigate to **ERP and Other Integrations.** Refer to the ONESOURC E-Invoicing Configuration Guide under the section "ONESOURCE E-Invoicing ERP Integration".

Setting Up Display of PDF

The display PDF option is enabled for electronic incoming invoices via the 'eDocument Process Toolbar Function Assignment'. This configuration is enabled as part of the transport objects provided by Thomson Reuters.

You will be able to see this Display PDF option on E-document Cockpit for Incoming Invoices.
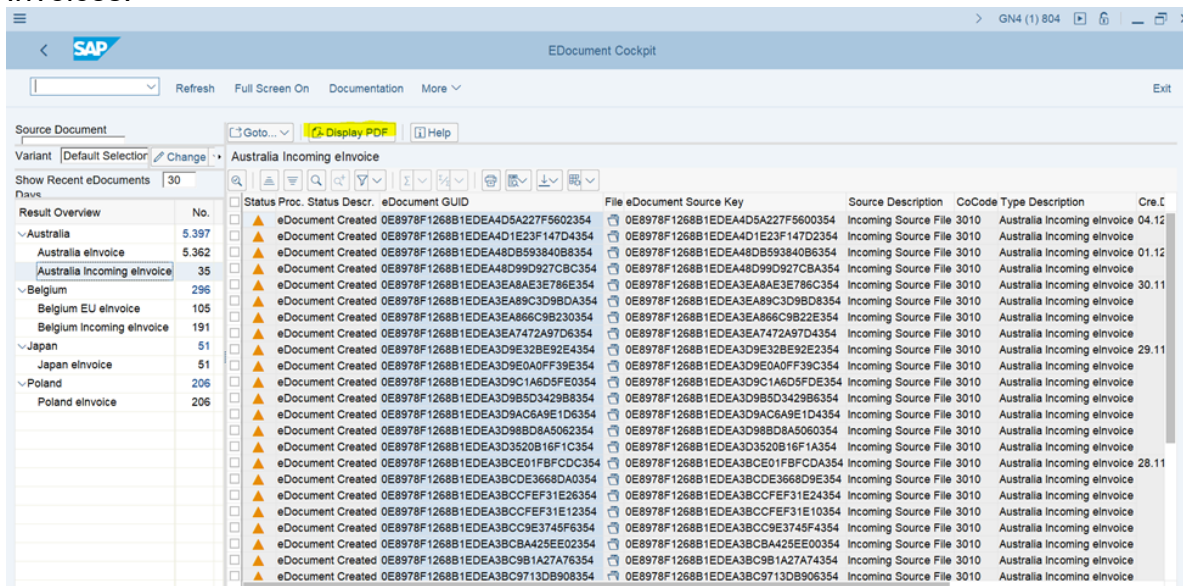
Once the 'Display PDF' button is visible in the eDocument cockpit, create an overwrite exit for the method 'DISPLAY_PDF' of the class CL_EDOC_ACTION_UI.
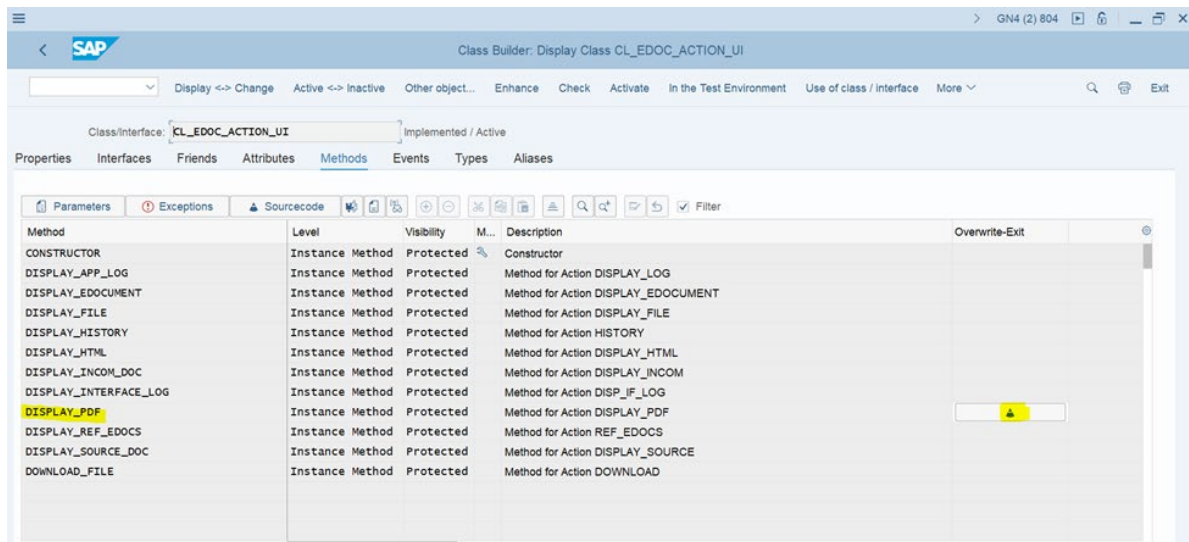
In the overwrite exit, use the include program **'/TROSEI/AP_DISPLAY_PDF'**.
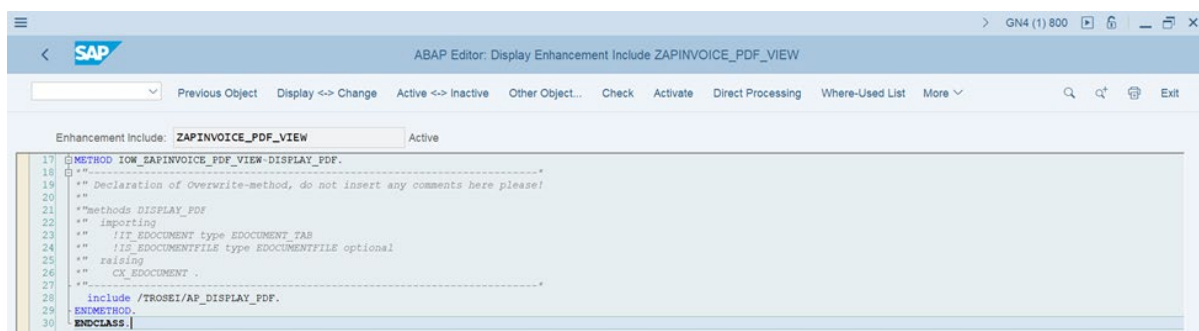
Setting Up Display of Customer's custom PDF

The default smart form provided by this solution for PDF preview is **/TROSEI/AP_INVOICE**.

However, based on your requirements, this can be customized to any other smart form by updating the parameter '/TROSEI_AP_SMARTFORM_NAME' in the /TROSEI/GENERIC table with the desired custom smart form name.

Note: The form interface import parameter of the custom smartform must match that of the default Thomson Reuters provided smartform /TROSEI/AP_INVOICE.

E-Invoice Flexible Field Mapper

With this release, we have introduced a Flexible Field Mapping that provides the ability for mapping SAP fields to the target structure of the ONESOURCE E-Invoice Outbound payload without the need to write any custom code.

The Flexible Field Mapper tool allows for standard mappings to be delivered by the Thomson Reuters E-Invoice solution to our customers while providing customers with the ability to customized or augment those mappings specific to their business or technical needs.

NOTE: As part of the implementation process, it's essential to thoroughly review and validate the payload information sent to the ONESOURCE E-Invoicing solution. While we aim to adhere to SAP best practices provided in the standard mapping, it is possible that your custom processes and data sources may necessitate customized mappings.

To access the flexible field mapper, use transaction code **/N/TROSEI/FIELDMAP.** When you first access the transaction, you will navigate to the selection screen, where you will have options to either Create/ Edit or Display the table values.

The following section lists the definitions of the columns within the Flexible Field Mapper.

Standard Check Box Column

This column is used to identify a mapping line as being from the standard mappings that are provided by Thomson Reuters as pre-delivered content. As a customer, you will not be able to check and delete this field in the configuration tables. The field can be ignored for your purpose.

Notice in the standard version of the table all the lines in this view have the box checked. This is a tool that will make it easier for debugging your system and to allow for updates in the future. Rows marked as standard will be updated with software updates. Rows that are not marked as standard will not be changed with a software update thereby leaving your custom configuration intact.

Sort order Column
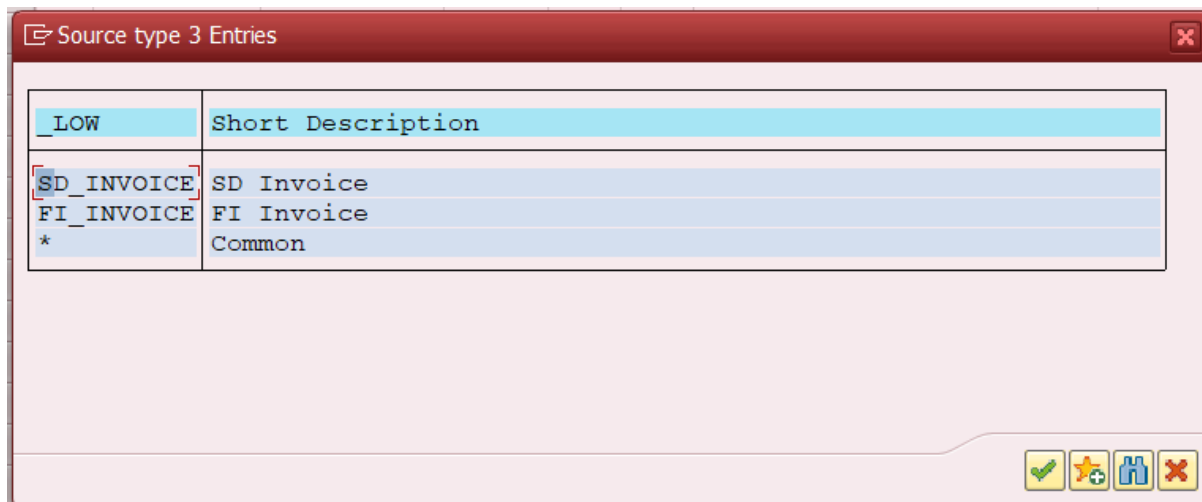
The system processes the line with the highest Sort Order first and then the line with the next highest Sort Order and so on. The Sort Order field for customer updated tables must be greater than or equal to sequence 9000 through 9999.
This way customer configuration is of a higher sort number and will be used to override or augment the standard mappings that we provide as part of the standard setup.

Source Type

This column differentiates data originating from different sources. There are 2 processes currently configured as standard package **SD and FI.** Each source type is linked to its own source table.

For example, in the SD process, line-item data is retrieved from the VBRP table, whereas in the FI process, it is obtained from the BSEG table. Additionally, ONESOURCE E-Invoice fields, such as ACCOUNTINGCUSTOMERPARTY and ACCOUNTINGSUPPLIERPARTY, share similar source tables across both processes. To streamline data representation and avoid redundancy, a wildcard (*) can be employed in these instances."

Active Flag Column
This checkbox column serves as a toggle to activate or deactivate specific lines within the configuration table. When checked, the configuration is considered active and utilized. Conversely, when unchecked, the configuration line remains in the table for future reference but is not activated. This feature proves invaluable during error debugging within the configuration or when exploring various options to address business requirements.

Country Column

In this column you have the option to specify your configuration line to further limit the mapping based on country.

For instance, in the case of Italy, certain fields may be exclusive and unnecessary for other countries. In such instances, the country code 'IT' can be assigned for the specific source and target field.

Display View "Field Mapping": Overview

Field Mapping

Std	Sort Order	Source Type	Active	Ctry	CoCd	Source Structure	Source Field	Target Structure	Target Field
✓	000167	*	✓	IT	*	DFKKBPTAXNUM_C	TAXNUM	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYENDPOINTID	VALUE
✓	000168	SD_INVOICE	✓	IT	*	DFKKBPTAXNUM_C	TAXNUM	BUYERCUSTOMERPARTY-PARTY-PARTYENDPOINTID	VALUE

Company Code

Similar to the country column, the field mapping can also be limited by company code using this column to designate the applicable company code.

Source Structure and Source Field

This column serves the purpose of referencing tables or structures within the SAP source structure, specifically denoted as /TROSEI/SAP_SOURCE.

The screen shot below illustrates the different types of source structures available for field mappings.

- Custom source structures – e.g CALC_ITEMS (highlighted in red below)
- Standard SAP table/ structure – e.g. BKPF (highlighted in blue below)
- Constant values – (highlighted in orange below)

All source structures/tables (Except "Constants") are combined in one TROSEI global structure - /TROSEI/SAP_SOURCE.

Change View "Field Mapping": Overview

New Entries

Field Mapping

Std	Sort Order	Source Type	Active	Ctry	CoCd	Source Structure	Source Field	Target Structure	Target Field
☑	000001	*	☑	*	*	EDOCUMENTNUMBER		ID	
☑	000002	FI_INVOICE	☑	*	*	BKPF	BELNR	DOCUMENTNUMBER	
☑	000003	SD_INVOICE	☑	*	*	VBRK	VBELN	DOCUMENTNUMBER	
☑	000004	FI_INVOICE	☑	*	*	CALC_ITEMS	DUEDATE	DUEDATE	
☑	000005	SD_INVOICE	☑	*	*	CALC_ITEMS	DUEDATE	DUEDATE	
☑	000006	FI_INVOICE	☑	*	*	BKPF	BLDAT	ISSUEDATE	
☑	000007	SD_INVOICE	☑	*	*	VBRK	FKDAT	ISSUEDATE	
☑	000008	SD_INVOICE	☑	*	*	/TROSEI/DOCTYPEF	COMMENTS	EDOCUMENTTYPE	NAME
☑	000009	SD_INVOICE	☑	*	*	/TROSEI/DOCTYPEF	TRANS	EDOCUMENTTYPE	VALUE
☑	000010	*	☑	*	*	/TROSEI/CUSTOMER_TYPE		CUSTOMERTYPE	
☑	000011	FI_INVOICE	☑	*	*	BKPF	WAERS	EDOCUMENTCURRENCYCODE	
☑	000012	SD_INVOICE	☑	*	*	VBRK	WAERK	EDOCUMENTCURRENCYCODE	
☑	000013	*	☑	*	*	T001_S	STCEG	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYENDPOINTID	VALUE
☑	000014	*	☑	*	*	EDOEUPARTY_B	PARTY_CODE_TYPE	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYENDPOINTID	SCHEMEID
☑	000015	*	☑	*	*	T001Z_S	PAVAL	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYIDENTIFICATION.	VALUE
☑	000016	*	☑	*	*	/TROSEI/SCHEMA_S_1	ID	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYIDENTIFICATION.	SCHEMEID
☑	000017	*	☑	*	*	T001_S	BUTXT	ACCOUNTINGSUPPLIERPARTY-PARTY	PARTYNAME
☑	000018	*	☑	*	*	ADRC_B	HOUSE_NUM1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	POSTBOX
☑	000019	*	☑	*	*	ADRC_B	STREET	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	STREETNAME
☑	000020	*	☑	*	*	ADRC_B	STR_SUPPL1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	ADDITIONALSTREETNAME
☑	000021	*	☑	*	*	ADRC_B	BUILDING	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	BUILDINGNUMBER
☑	000022	*	☑	*	*	ADRC_B	CITY1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	CITYNAME
☑	000023	*	☑	*	*	ADRC_B	POST_CODE1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	POSTALZONE
☑	000024	*	☑	*	*	CONSTANT	LINE1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS-ADDRE.	LINE
☑	000025	*	☑	*	*	ADRC_B	COUNTRY	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	COUNTRYIDENTIFICATIONCODE

Target structure

Similar to the source structure, this column is used to denote the structure or table of Targeted mapping fields.

For example, in the highlighted area of the screen shot below, the source structure ADRC_B and field CITY1 is mapped to the target structure ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS, which comprises multiple nested nodes. The entire structure is required to be mapped.

Field Mapping

Std	Sort Order	Source Type	Active	Ctry	CoCd	Source Structure	Source Field	Target Structure	Target Field
☑	000013	*	☑	*	*	T001_S	STCEG	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYENDPOINTID	VALUE
☑	000014	*	☑	*	*	EDOEUPARTY_B	PARTY_CODE_TYPE	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYENDPOINTID	SCHEMEID
☑	000015	*	☑	*	*	T001Z_S	PAVAL	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYIDENTIFICATION.	VALUE
☑	000016	*	☑	*	*	/TROSEI/SCHEMA_S_1	ID	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYIDENTIFICATION.	SCHEMEID
☑	000017	*	☑	*	*	T001_S	BUTXT	ACCOUNTINGSUPPLIERPARTY-PARTY	PARTYNAME
☑	000018	*	☑	*	*	ADRC_B	HOUSE_NUM1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	POSTBOX
☑	000019	*	☑	*	*	ADRC_B	STREET	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	STREETNAME
☑	000020	*	☑	*	*	ADRC_B	STR_SUPPL1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	ADDITIONALSTREETN.
☑	000021	*	☑	*	*	ADRC_B	BUILDING	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	BUILDINGNUMBER
☑	000022	*	☑	*	*	ADRC_B	CITY1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	CITYNAME
☑	000023	*	☑	*	*	ADRC_B	POST_CODE1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	POSTALZONE
☑	000024	*	☑	*	*	CONSTANT	LINE1	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS-ADDRE.	LINE
☑	000025	*	☑	*	*	ADRC_B	COUNTRY	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	COUNTRYIDENTIFICA.
☑	000026	*	☑	*	*	T005T_B	LANDX50	ACCOUNTINGSUPPLIERPARTY-PARTY-POSTALADDRESS	COUNTRYNAME
☑	000027	*	☑	*	*	T001_S	STCEG	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYTAXSCHEMES	COMPANYID
☑	000028	*	☑	*	*	/TROSEI/SCHEMA_S_2	ID	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYTAXSCHEMES	TAXSCHEMEID
☑	000029	*	☑	*	*	T001_S	BUTXT	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYLEGALENTITIES	REGISTRATIONNAME
☑	000030	*	☑	*	*	T001Z_S	PAVAL	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYLEGALENTITIES	COMPANYID-VALUE
☑	000031	*	☑	*	*	/TROSEI/SCHEMA_S_3	ID	ACCOUNTINGSUPPLIERPARTY-PARTY-PARTYLEGALENTITIES	COMPANYID-SCHEMEID

Target field

This column maps to the target field. E.g. COUNTRYIDENTIFICATIONCODE will be populated as part of OSEI structure /TROSEI/AR_OSEI_STRUCTURE.

Field Mapping

Std	Sort Order	Source Type	Active	Ctry	CoCd	Source Structure	Source Field	Target Structure	Target Field
☑	000034	*	☑	*	*	EDOEUPARTY_C	PARTY_CODE_TYPE	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYENDPOINTID	SCHEMEID
☑	000035	*	☑	*	*	KNB1_C	EIKTO	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYIDENTIFICATION.	VALUE
☑	000036	*	☑	*	*	/TROSEI/SCHEMA_C_1	ID	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYIDENTIFICATION.	SCHEMEID
☑	000037	*	☑	*	*	KNA1_C	NAME1	ACCOUNTINGCUSTOMERPARTY-PARTY	PARTYNAME
☑	000038	*	☑	*	*	ADRC_C	HOUSE_NUM1	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	POSTBOX
☑	000039	*	☑	*	*	ADRC_C	STREET	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	STREETNAME
☑	000040	*	☑	*	*	ADRC_C	STR_SUPPL1	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	ADDITIONALSTREETNAME
☑	000041	*	☑	*	*	ADRC_C	BUILDING	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	BUILDINGNUMBER
☑	000042	*	☑	*	*	ADRC_C	CITY1	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	CITYNAME
☑	000043	*	☑	*	*	ADRC_C	POST_CODE1	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	POSTALZONE
☑	000044	*	☑	*	*	CONSTANT	LINE1	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS-ADDRE.	LINE
☑	000045	*	☑	*	*	ADRC_C	COUNTRY	ACCOUNTINGCUSTOMERPARTY-PARTY-POSTALADDRESS	COUNTRYIDENTIFICATIONCODE
☑	000046	*	☑	*	*	KNA1_C	STCEG	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYTAXSCHEMES	COMPANYID
☑	000047	*	☑	*	*	/TROSEI/SCHEMA_C_2	ID	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYTAXSCHEMES	TAXSCHEMEID
☑	000048	*	☑	*	*	KNA1_C	NAME1	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYLEGALENTITIES	REGISTRATIONNAME
☑	000049	*	☑	*	*	T001Z_C	PAVAL	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYLEGALENTITIES	COMPANYID-VALUE
☑	000050	*	☑	*	*	/TROSEI/SCHEMA_C_3	ID	ACCOUNTINGCUSTOMERPARTY-PARTY-PARTYLEGALENTITIES	COMPANYID-SCHEMEID
☑	000051	*	☑	*	*	ADR6_C	SMTP_ADDR	ACCOUNTINGCUSTOMERPARTY-PARTY-CONTACT	ELECTRONICMAIL
☑	000052	SD_INVOICE	☑	*	*	DFKKBPTAXNUM_CS	TAXNUM	BUYERCUSTOMERPARTY-PARTY-PARTYENDPOINTID	VALUE
☑	000053	SD_INVOICE	☑	*	*	EDOEUPARTY_B	PARTY_CODE_TYPE	BUYERCUSTOMERPARTY-PARTY-PARTYENDPOINTID	SCHEMEID
☑	000054	SD_INVOICE	☑	*	*	KNB1_B	EIKTO	BUYERCUSTOMERPARTY-PARTY-PARTYIDENTIFICATIONID	VALUE
☑	000055	SD_INVOICE	☑	*	*	/TROSEI/SCHEMA_B_1	ID	BUYERCUSTOMERPARTY-PARTY-PARTYIDENTIFICATIONID	SCHEMEID
☑	000056	SD_INVOICE	☑	*	*	KNA1_B	NAME1	BUYERCUSTOMERPARTY-PARTY	PARTYNAME
☑	000057	SD_INVOICE	☑	*	*	ADRC_C	HOUSE_NUM1	BUYERCUSTOMERPARTY-PARTY-POSTALADDRESS	POSTBOX
☑	000058	SD_INVOICE	☑	*	*	ADRC_C	STREET	BUYERCUSTOMERPARTY-PARTY-POSTALADDRESS	STREETNAME

Miscellaneous points

- You are not allowed to delete standard checked columns.
- The customer field mapping begins from value 9000 and continues up to 9999 for the Sort Order field. Fields with higher sort order values take precedence during the mapping process
- The wildcard (*) denotes common usage within fields Source type, Country and Company code.
- While maintaining custom fields ensure that the mapping strictly adheres to the structures defined in both the source and target. Custom or standard tables must be present within the designated source structure /TROSEI/SAP_SOURCE or it will not be available for use.

Master Data Configuration

Maintain the following master data for your customers and company codes:

Maintain VAT Registration Number for Company Code

Your company is identified in the Peppol network using the VAT Registration Number; therefore, you must maintain this information for each company code in the company global parameters.

This configuration is also used to identify the respective company code for electronic supplier invoices.

Procedure

       a. Transaction code **OBY6.** Search for company and double click on it.
       b. Under Accounting Organization, maintain value for VAT Registration No.
       c. Save entries.

Example: Company assigned to VAT number as party ID type (For Company 2510: Belgium)

Maintain VAT Number for Customer

Your customers are identified in the Peppol network using the VAT Number; therefore, you must maintain this information in the customer master (business partner).

Procedure

a. Transaction code **BP**. Open master data for customer.
b. Under Identification tab, enter the corporate number (Category BE0: Belgium VAT Registration Number) and the Tax number.
c. Save entries.

Example: Customer assigned to VAT number as party ID type (category BE0: Belgium VAT Registration Number)

Assign Party ID Types to Business Partner

Companies exchanging electronic documents using the Peppol network must identify themselves. For each business partner, you specify by which ID type they're registered in the Peppol network. For example, some may use VAT, others, Global Number Identification, or any other identification required locally.

Procedure

a. Search **EDOEUBUPAV** view using transaction SM30. Choose new entries.
b. Create an entry for each customer and party ID type combination.
c. Save entries.

Example: Customer assigned to VAT number as party ID type (For Country BE: Belgium)

Display View "eDocument - EU Business Partner": Overview

eDocument - EU Business Partner

Partner ID	Type	Party ID Type	Description	E-Mail	
25100001	C Customer	▼ BE:VAT	Belgium VAT number	E-Mail Process Inactive	▼
25100002	C Customer	▼ BE:VAT	Belgium VAT number	E-Mail Process Inactive	▼

Assign Party ID Types to Companies

To identify your companies in the Peppol network, for each company code, you specify by which ID type they're registered. Use VAT, others, Global Number Identification, or any other identification required locally.

Procedure

a. Search **EDOEUCOMPV** view using SM30. Choose new entries.
b. Create an entry for company code and party ID type combination.
c. Save entries.

Example: Company assigned to VAT number as party ID type (For Company 2510: Belgium)

Display View "eDocument - EU Company Identification Type": Overview

eDocument - EU Company Identification Type

CoCd	Company Name	Party ID Type	Description	
2510	Company Code 2510	BE:VAT	Belgium VAT number	▲

Define Bank Accounts for Company Code

To define the bank account for your company code that is displayed in the electronic document. If you have multiple bank accounts, you can maintain the ones relevant for
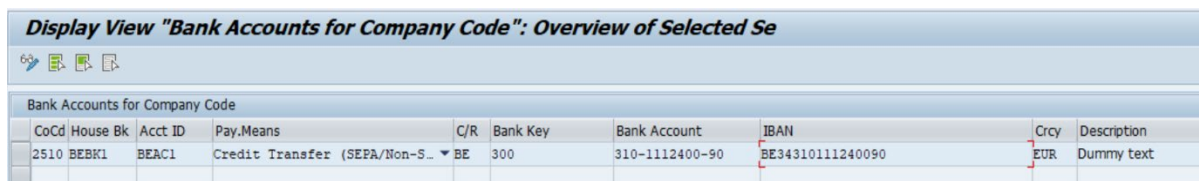
the documents that are submitted using the Peppol network. If you don't maintain any bank account, all bank accounts that exist in your company master data are displayed.

Procedure

a. Search **EDOEUBANKACCV** view using SM30. Choose new entries.
b. Create an entry for company code, house bank, account ID and payment means.
c. Save entries.

Example: Bank Account (For Company code 2510: Belgium)

CoCd	House Bk	Acct ID	Pay.Means	C/R	Bank Key	Bank Account	IBAN	Crcy	Description
2510	BEBK1	BEAC1	Credit Transfer (SEPA/Non-S… ▼	BE	300	310-1112400-90	BE34310111240090	EUR	Dummy text

Display View "Bank Accounts for Company Code": Overview of Selected Se

Bank Accounts for Company Code

Configuring SAP S/4HANA

Activate Source Document Types Per Company Code

For a company code, you can define for which type of source document you want electronic documents to be created. You can define multiple entries for one company code.

Procedure

a. Search **EDOCOMPANYACTIV** view using **SM30**. Choose new entries.
b. Create entry for a combination of company code and source document, select the Active checkbox for each combination.
c. Save entries.

Example: To activate accounting and billing document for your company code (BE01: Belgium as example), maintain below entries.

For customer electronic documents, assign source type **FI_INVOICE, INV_VERIF and SD_INVOICE**. For buyer electronic documents, assign source type **SRC_FILE.**

Define Interface Type per E-Document Type

For each company code and eDocument type combination, you define the interface type that the system uses for the generation of e-Documents as well as for sending to the ONESOURCE E-Invoice component.

Procedure
    a. Go to **EDOINTTYPEV** view using SM30. Choose new entries.
    b. Create an entry for each combination of company code and eDocument type.
    c. Save entries.

Example: For your company code (BE01: Belgium as example), maintain below entries. Assign Interface Type **Customer-specific** to all company code/ eDocument type combinations.

Assign E-Document Type to Accounting Document Type

This configuration is maintained to trigger generation of e-Documents when an accounting document is created.

Procedure

       a. Search **T003EDOCV** view using SM30. Select Country/Region, Choose new entries.
       b. Create an entry for a Source document type assign eDocument type.
       c. Save entries.

Example: For country (BE: Belgium as example), maintain below entries.

Display View "eDocument: Assign eDocument Type to Accounting Document"

Country/Region   BE

eDocument: Assign eDocument Type to Accounting Document Type

Type	Description	eDocume...	Type Description	Deviating eDoc. ...	Deviating eDoc. Type Descr.
AB	Accounting Document	BE_CRE	Belgium Credit Note		
DG	Customer Credit Memo	BE_CRE	Belgium Credit Note		
DR	Customer Invoice	BE_INV	Belgium eInvoice		
RV	Billing Doc.Transfer	BE_INV	Belgium eInvoice		

E-Document Process Setup for Country

As a prerequisite, you must assign eDocument Process to Ref process and country.

Procedure

       a. Call up transaction SM30.
       b. Enter **EDOPROCESSV** in the Table/View field. Choose Maintain.
       c. Choose New Entries.
       d. Enter eDoc process, reference Process and country.
       e. Create entries for other countries.
       f. Save your entries

Example
> For customer electronic invoices, assign Ref. Proc. **ZTROEI**
> For supplier electronic invoices, assign Ref. Proc. **ZTROEIIN**

Display View "eDocument Process": Overview

eDoc. Process	Process Description	Ref. Proc.	Service	Country/Region
BEINV	Belgium EU eInvoice	ZTROEI	✓	BE
BEINVIN	Belgium Incoming eInvoice	ZTROEIIN	✓	BE

E-Document Technical Settings per Country

As a prerequisite, you must assign the Country code to class.

Procedure

> a. Call up transaction SM30.
> b. Enter **EDOCOUNTRYTCH** in the Table/View field. Choose Maintain.
> c. Choose New Entries.
> d. For each country code, assign eDocument class name
> **/TROSEI/CL_EDOCUMENT_ALL.**
> e. Select the Proc Mgr checkbox.
> f. Save your entries

Example

eDocument: Technical Settings per Country

View: EDOCOUNTRYTCH
Datum: 16.03.2024

Ctry I...	eDocument Class Name	PMgr
AU	/TROSEI/CL_EDOCUMENT_ALL	X
BE	/TROSEI/CL_EDOCUMENT_ALL	X
IT	/TROSEI/CL_EDOCUMENT_ALL	X
JP	/TROSEI/CL_EDOCUMENT_ALL	X
PL	/TROSEI/CL_EDOCUMENT_ALL	X

Thomson Reuters E-Document Class Settings

This table is used when you assign Document class name
/TROSEI/CL_EDOCUMENT_ALL in the prior configuration.

Procedure

     a. Call up transaction SM30.
     b. Enter **/TROSEI/EDOCDTL** in the Table/View field. Choose Maintain.
     c. Choose New Entries.
     d. For each eDocument type and country code, choose Interface Type
     Customer-specific" and enter the relevant eDocument Process.
     e. Use version "**0001**"
     f. Save your entries.

Example:

Display View "Edocument details": Overview

Edocument details

eDocument ...	C/R	Interface Type	eDoc. Process	Vers
AU_CRE	AU	Customer-specific	AUINV	0001
AU_INV	AU	Customer-specific	AUINV	0001
AU_INVIN	AU	Customer-specific	AUINVIN	0001
BE_CRE	BE	Customer-specific	BEINV	0001
BE_INV	BE	Customer-specific	BEINV	0001
BE_INVIN	BE	Customer-specific	BEINVIN	0001
DE_CRE	DE	Customer-specific	DEINV	0001
DE_INV	DE	Customer-specific	DEINV	0001
DE_INVIN	DE	Customer-specific	DEINVIN	0001
IT_FATTURA	IT	Customer-specific	ITFATTURA	0001
IT_INVINC	IT	Customer-specific	ITINVIN	0001
JP_CRE	JP	Customer-specific	JPINV	0001
JP_INV	JP	Customer-specific	JPINV	0001
JP_INVIN	JP	Customer-specific	JPINVIN	0001
MY_INV	MY	Customer-specific	MYINV	0001
PL_INV	PL	Customer-specific	PLINV	0001
PL_INVIN	PL	Customer-specific	PLINVIN	0001
PL_INV_COR	PL	Customer-specific	PLINV	0001

Thomson Reuters Status Code Mapping

This table is used to configure Reason Codes, Status Codes for each country and business process. The default entries in this table comes as part of the transport package for specific countries. If the country where you are implementing the e-document solution is listed here, no additional action is necessary, else follow the procedure below.

Procedure

    a. Call up transaction SM30.

    b. Enter **/TROSEI/V_PROCES** in the Table/View field. Choose Maintain.

    c. Choose New Entries.

    d. For each country code, business process and customer type, enter the relevant Reason Code and Status Code. You may select and copy all the entries from one of the predefined countries with processes closest to the country you are implementing.

    f. Save your entries.

Display View "Process Status view": Overview

Process Status view

Vers	C/R	Business Process	Reason Cod	Status Cod	Cust Type
0001	AU	AR_INBOUND	Error: Pagero	ERR_PAGERO	Business To Business
0001	AU	AR_INBOUND	In Progress – Pagero	INP_PAGERO	Business To Business
0001	AU	AR_INBOUND	Submitted by Pagero	B2G_PAGERO	Business To Government
0001	BE	AR_INBOUND	Business Rejection	BUR_PAGERO	Business To Government
0001	BE	AR_INBOUND	Error: Pagero	ERR_PAGERO	Business To Business
0001	BE	AR_INBOUND	In Progress – Pagero	INP_PAGERO	Business To Business
0001	BE	AR_INBOUND	Submitted by Pagero	B2G_PAGERO	Business To Government
0001	IT	AR_INBOUND	Business Acceptance	BUA_PAGERO	Business To Government
0001	IT	AR_INBOUND	Business Rejection	BUR_PAGERO	Business To Government
0001	IT	AR_INBOUND	Conditionally Accepted	CCA_TXAUTH	Business To Government
0001	IT	AR_INBOUND	Clearance Accepted	CLA_TXAUTH	Business To Business
0001	IT	AR_INBOUND	Clearance Rejected	CLR_TXAUTH	Business To Business
0001	IT	AR_INBOUND	Deadline Pass	DDP_TXAUTH	Business To Government
0001	IT	AR_INBOUND	Error: Pagero	ERR_PAGERO	Business To Business
0001	IT	AR_INBOUND	In Progress – Pagero	INP_PAGERO	Business To Business
0001	IT	AR_INBOUND	Submitted by Pagero	B2G_PAGERO	Business To Government
0001	JP	AR_INBOUND	Error: Pagero	ERR_PAGERO	Business To Business
0001	JP	AR_INBOUND	In Progress – Pagero	INP_PAGERO	Business To Business
0001	JP	AR_INBOUND	Submitted by Pagero	B2G_PAGERO	Business To Government
0001	PL	AR_INBOUND	Clearance Accepted	CLA_TXAUTH	Business To Government
0001	PL	AR_INBOUND	Clearance Rejected	CLR_TXAUTH	Business To Government
0001	PL	AR_INBOUND	Error: Pagero	ERR_PAGERO	Business To Business
0001	PL	AR_INBOUND	In Progress – Pagero	INP_PAGERO	Business To Business
0001	PL	AR_INBOUND	Submitted by Pagero	B2G_PAGERO	Business To Government
0002	AU	AR_INBOUND	Error: Pagero	ERR_PAGERO	Business To Government
0002	AU	AR_INBOUND	In Progress – Pagero	INP_PAGERO	Business To Government
0002	AU	AR_INBOUND	Submitted by Pagero	B2B_PAGERO	Business To Business

Thomson Reuters Additional Parameter Mapping

This table is used to define additional parameter values to support the Thomson Reuters e-invoice solution. The default entries in this table comes as part of the transport package for specific countries. If the country where you are implementing the e-document solution is listed here and does not require modification, no additional action is necessary, else follow the procedure below.

The table below describes the usage of the different parameter(s):

Parameter ID	Description
001 – Tax Category for VAT Registration Number	Tax Category for Business Partner Tax Registration Number See Maintain VAT Number for Customer

Procedure

    a. Call up transaction SM30.
    b. Enter **/TROSEI/COUNTRY** in the Table/View field. Choose Maintain.
    c. Choose New Entries.
    d. For each country code, choose parameter the relevant parameter.
    e. Enter the parameter value against the entry.
    f. Save your entries.

Display View "Country Specific Parameters for eInvoicing": Overview

Country Specific Parameters for eInvoicing

C/R	Parameter	TROSEI Parameter Value
AE	Tax Category for VAT Registration Number	AE0
AG	Tax Category for VAT Registration Number	AG1
AL	Tax Category for VAT Registration Number	AL1
AM	Tax Category for VAT Registration Number	AM1
AT	Tax Category for VAT Registration Number	AT0
AU	Tax Category for VAT Registration Number	AU0
BA	Tax Category for VAT Registration Number	BA1
BD	Tax Category for VAT Registration Number	BD1
BE	Tax Category for VAT Registration Number	BE0
BH	Tax Category for VAT Registration Number	BH0
BS	Tax Category for VAT Registration Number	BS1
BW	Tax Category for VAT Registration Number	BW1
BY	Tax Category for VAT Registration Number	BY1
CH	Tax Category for VAT Registration Number	CH2
CY	Tax Category for VAT Registration Number	CY0
CZ	Tax Category for VAT Registration Number	CZ0
DE	Tax Category for VAT Registration Number	DE0

Custom Tables / Configuration

Define SD Document Types

As a prerequisite, you must define SD Document Types. This is required to map the invoice and credit memos type codes (as per table TVFK) defined in your system with the external values accepted by ONESOURCE E-Invoicing (OEI).

Procedure

      a. Call up transaction **/TROSEI/DOCTYP_SD**
      b. Choose New Entries.
      d. Create entries for allowed billing types.
      f. Save your entries

Example

BillT	Transform	Comments
F2	INV	INVOICE
G2	CRN	CREDIT NOTE
L2	DBN	DEBIT NOTE

Define FI Document Types

As a prerequisite, you must define FI Document Types. This is required to map the invoice and credit memos type codes (as per table T003) defined in your system with the external values accepted by ONESOURCE E-Invoicing (OEI).

Procedure

     a. Call up transaction **/TROSEI/DOCTYP_FI**

     b. Choose New Entries.

     d. Create entries for allowed document types.

     f. Save your entries

Example

Define Tax Category for ONESOURCE E-Invoicing (OEI)

As a prerequisite, you must define Tax Category for ONESOURCE E-Invoicing (OEI). This is required to map the country/region specific tax category codes in your system to the ones required by ONESOURCE E-Invoicing (OEI).

Procedure

     a. Call up transaction **/TROSEI/TAXCATEGORY**

     b. Choose New Entries.

     d. Create entries for allowed procedures.

     f. Save your entries

Example

Display View "Tax Category OEI": Overview of Selected Set

Proc.	Tx	Description	OEI Tax	OEI Description
0TXBE	00	Sale BE Exempt art. 44 BE VAT Code-0%	E	
0TXBE	11	Sale BE goods and serv.-6%	S	
0TXBE	12	Sale BE goods and serv.-12%	S	
0TXBE	13	Sale BE goods and serv.-21%	S	

Define Unit of measure mapping to ONESOURCE E-Invoicing (OEI)

As a prerequisite, you must define Unit code for ONESOURCE E-Invoicing (OEI). This mapping is used to convert internal unit of measure code to ONESOURCE E-Invoicing (OEI) network code where your system units and ONESOURCE E-Invoicing (OEI) unit are not same.

Procedure
      a. Call up transaction **/TROSEI/UNITCODE**
      b. Choose New Entries.
      d. Create entries for system units of measure (MU) mapping to ONESOURCE E-Invoicing (OEI).
      f. Save your entries

Example

Display View "Unit code maintenace view": Overview

Unit code maintenace view

MU	OEI Unit	Measurement Unit Txt
%	H93	%
DR	DR	Drum
EA	EA	each
KG	KG	kg
PC	H87	Piece

To review the list of Unit of Measure used by Pagero refer to PUF Unit of Measure

Define Customer Type

This setting is to identify your customers as either a "Business to Business" or "Business to Government" party.

Procedure

a. Call up transaction **/TROSEI/CUSTTYPE**
b. Choose New Entries.
d. Create entries for Customers for each company code. Identify your customer as either "Business to Business" or Business to Government".
f. Save your entries

Example

Display View "Customer type Business Identifier": Overview

CoCd	Customer	Cust Type
2510	25100001	B2B Business To Business
2510	25100002	B2G Business To Government

Define Payment method mapping to ONESOURCE E-Invoicing (OEI)

As a prerequisite, you must define payment methods to ONESOURCE E-Invoicing (OEI). This value mapping to map the payment means defined in your system with the external values accepted by ONESOURCE E-Invoicing (OEI) standard UNCL4461 code list subset BII2.

Procedure
      a. Call up transaction **/TROSEI/PAYMENTMEANS**
      b. Choose New Entries.
      d. Create entries for allowed payment methods.
      f. Save your entries

Example

Display View "Payment method": Overview

Payment Type	Method	OEI Value
CASH	M	10
CHEQUE	C	20
CUSTOMER COLLECTION –…	D	1
TRANSFER	T	30

To review the list of payment methods used by Pagero refer to [PUF Payment Methods](#)

Reviewing E-Document Process Manager Configuration

⚠️ The following section describes the process manager configuration that is required to be set up to work with the ONESOURCE™ E-Invoicing Integration for SAP S/4HANA. These configuration steps are covered by the transport object listed in [Importing Transport Objects](). The configuration items listed here are for your review.

⚠️ The E-document Process Manager controls the processing and status framework used by this integration. Any modifications to the ONESOURCE enabled process will affect the overall functionality of the solution. It is recommended that access to these configuration objects be restricted to resources having knowledge and expertise in this area.

EDoc. Process "ZTROEI" shown with Process Status to support the customer e-invoice processes and "ZTROEIIN" for buyer e-invoice processes.

e-Document Process Steps

As a prerequisite, you must define the process steps. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure
      a. Call up transaction SM34.
      b. Enter EDOC_PROCMGR in the View Cluster field. Choose Display.

Example : EDoc. Process "ZTROEI" shown with Process Status

Display View "Process": Overview

eDoc. Process	Process Description	Ref. Proc.	Service	Country/Region
TWDOCS	Taiwan Doc. for Cnsldtn		☐	TW
TWEXCH	Taiwan eInv. Exch. Mode		☐	TW
ZTROEI	Thomson Reuters eInvoice		☑	

Display View "Process Status Determination": Overview

Process Status Determination

eDoc. Process	Process Description	Vers	eDocument Type	Process Status	Proc. Status Descr.	SequenceNo
ZTROEI	Thomson Reuters eInvoice	1		CREATED	Created	10
ZTROEI	Thomson Reuters eInvoice	1		SEND_REQ	Sending Requested	20
ZTROEI	Thomson Reuters eInvoice	1		ACCEPTED	Delivered to OEI	31
ZTROEI	Thomson Reuters eInvoice	1		REJECTED	OEI Error: Refer File Column	32
ZTROEI	Thomson Reuters eInvoice	1		ERROR	Error at Send. Acc. Point	33
ZTROEI	Thomson Reuters eInvoice	1		DOWNLOADED	XML Downloaded	35
ZTROEI	Thomson Reuters eInvoice	1		INP_PAGERO	In Progress - Pagero	50
ZTROEI	Thomson Reuters eInvoice	1		ERR_PAGERO	Error - Pagero	51
ZTROEI	Thomson Reuters eInvoice	1		BUA_PAGERO	Business Acceptance - Pagero	52
ZTROEI	Thomson Reuters eInvoice	1		BUR_PAGERO	Business Rejection - Pagero	53
ZTROEI	Thomson Reuters eInvoice	1		CAN_PAGERO	Cancellation - Pagero	54
ZTROEI	Thomson Reuters eInvoice	1		B2B_PAGERO	Successfully submitted-Pagero	55
ZTROEI	Thomson Reuters eInvoice	1		B2G_PAGERO	Successfully submitted-Pagero	56
ZTROEI	Thomson Reuters eInvoice	1		CANCELLED	Cancelled	70
ZTROEI	Thomson Reuters eInvoice	1		REVERSED	Source Document Reversed	100

e-Document Process Toolbar Function Assignment

As a prerequisite, you must define the process Toolbar Function Assignment. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure
   a. Search **EDOPROCFUNCASGV** view using SM30.
   b. Click Display

Example: EDoc. Process "ZTROEI" for Outbound E-Invoice Processes

Display View "eDocument Process Toolbar Function Assignment":

eDocument Process Toolbar Function Assignment

eDoc. Process	Pos	Func. Type	Function	Parent Funct
ZTROEI		0 Button	SUBMIT	
ZTROEI	15	3 Separator		
ZTROEI	20	0 Button	CHECK_STATUS	
ZTROEI	23	3 Separator		
ZTROEI	25	2 Menu	MENU_DISPLAY	
ZTROEI	27	0 Button	DISPLAY_EDOC	MENU_DISPL
ZTROEI	29	3 Separator		
ZTROEI	40	2 Menu	GOTO	
ZTROEI	42	0 Button	DISPLAY_SOURCE	GOTO
ZTROEI	45	0 Button	HISTORY	GOTO
ZTROEI	46	0 Button	DISPLAY_APP_LOG	GOTO
ZTROEI	50	3 Separator		
ZTROEI	60	2 Menu	MORE	
ZTROEI	62	0 Button	CANCEL	MORE
ZTROEI	65	3 Separator		MORE
ZTROEI	67	0 Button	DELETE	MORE
ZTROEI	68	3 Separator		MORE
ZTROEI	69	0 Button	ZTROEI_CANCEL	MORE

Example: EDoc. Process "ZTROEIIN" for Inbound E-Invoice Processes

e-Document Function Codes for the Process Toolbar

As a prerequisite, you must define the function codes for the process Toolbar. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure

      a. Search **EDOFUNCTIONV** view using SM30.
      b. Click Display

Example:

eDocuments: Function Codes for the Process Toolbar

Func. Type	Function	eDoc.Action	ID	Icon name	Text	Tooltip
Button	ACCEPT	ACCEPT		ICON_ALLOW	Accept	Accept eDocument
Button	ACCPT_NFE	ACCPT_NFE		ICON_ALLOW	Accept NF-e	Accept NF-e
Button	ALLOW_CANCEL	ALLOW_CANCEL		ICON_STORNO	Allow Cancellation	Allow Cancellation
Button	CANCEL	CANCEL		ICON_STORNO	Cancel	Cancel eDocument
Button	CHANGE_STATUS	CHANGE_STATUS		ICON_CHANGE_TEXT	Change Status Manually	Change Status Manually
Button	CHECK	CHECK		ICON_CHECK	Check	Check eDocument
Button	CHECK_GR_QTY	CHECK_GR_QTY		ICON_DELIVERY	Check Quantity	Check Quantity
Button	CHECK_STATUS	CHECK_STATUS		ICON_STATUS_OVERVIEW	Check Status	Check Status
Button	COMPLETE_MANUAL	COMPLETE_MANUAL		ICON_COMPLETE	Complete Manually	Complete Manually
Button	CONFIRM_CANCEL	CONFRIM_CANCEL		ICON_SET_STATE	Confirm Source Doc. Cancelled	Confirm Source Doc. Cancelled
Button	CONFIRM_GR	CONFIRM_GR		ICON_OKAY	Goods/Service Received	Confirm Goods/Service Receipt
Button	CONF_INV	CONF_INV		ICON_SET_STATE	Confirm	Confirm
Button	CONF_SENT_CUST	CONF_SENT_CUST		ICON_SET_STATE	Confirm Sent to Customer	Confirm Sent to Customer
Button	CONTINUE	CONTINUE		ICON_SYSTEM_REDO	Continue	Continue Process
Button	CREATE	CREATE		ICON_CREATE	Create	Create eDocument
Button	DELETE	DELETE		ICON_DELETE	Delete	Delete eDocument
Button	DISPLAY_APP_LOG	DISPLAY_APP_LOG		ICON_ERROR_PROTOCOL	Application Log	Application Log
Button	DISPLAY_DACTE	DISPLAY_DACTE		ICON_PDF	Display DACTE	Display DACTE
Button	DISPLAY_DANFE	DISPLAY_DANFE		ICON_PDF	Display DANFE	Display DANFE
Button	DISPLAY_EDOC	DISPLAY_EDOC		ICON_DISPLAY_TEXT	Display	Display/Preview XML
Button	DISPLAY_HTML	DISPLAY_HTML		ICON_HTM	Display HTML	Display HTML
Button	DISPLAY_INCOM	DISPLAY_INCOM		ICON_TE_RECEIPTS	Target Document	Target Document

e-Document Action Step

As a prerequisite, you must define the Action Step. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure

    a. Search **EDOACTIONSTEPV** view using SM30.
    b. Click Display

Example: EDoc. Process "ZTROEI" shown with Action Step.

Display View "eDocument Action Step": Overview

eDocument Action Step

eDoc. Pro...	eDoc.Action	Action Variant	Pr...	SequenceNo	Process St...	Proc.Step Variant	Incl.
ZTROEI	CANCEL		1	10	CANCEL		☐
ZTROEI	CHECK_STATUS		1	10	CHECK_STAT		☐
ZTROEI	CREATE		1	10	CREATE		☐
ZTROEI	CREATE	HOOK	1	10	CREATE	HOOK	☐
ZTROEI	DELETE		1	10	DELETE		☐
ZTROEI	RESUBMIT		1	10	RESTART		☐
ZTROEI	RESUBMIT		1	20	REQ_SEND		☐
ZTROEI	RESUBMIT		1	30	TRIGG_SEND		☐
ZTROEI	SUBMIT		1	10	REQ_SEND		☐
ZTROEI	SUBMIT		1	20	TRIGG_SEND		☐
ZTROEI	ZTROEI_CANCEL			10	TROEI_CANC		☐

e-Document Process Step Determination

As a prerequisite, you must define the process step determination. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure

      a. Search **EDOPROCSTEPDETV** view using SM30.
      b. Click Display

Example: eDoc. Process "ZTROEI" shown with process Step.

Display View "Process Step determ.: interface shall execute this step"

Process Step determ.: interface shall execute this step

eDoc. Process	Vers	Interface ID	eDoc Type	Source Type	Process Step	Direction	Interface Description
ZTROEI	1	UBL_GET_RESPONSE_RE...	AU_CRE		GET_MDN_R	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	UBL_GET_RESPONSE_RE...	AU_INV		GET_MDN_R	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	UBL_GET_RESPONSE_RE...	BE_CRE		GET_MDN_R	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	UBL_GET_RESPONSE_RE...	BE_INV		GET_MDN_R	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	UBL_GET_RESPONSE_RE...	JP_CRE		GET_MDN_R	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	UBL_GET_RESPONSE_RE...	JP_INV		T_MDN_R	I Inbound	▼ UBL Credit Note Transmission

e-Document Process Step Interface Determination

As a prerequisite, you must define the process step interface determination. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure

    a. Search **EDOPROCSPINTDETV** view using SM30.
    b. Click Display

Example: EDoc. Process "ZTROEI" shown with process Step Interface.

Display View "Process Step Interface determination": Overview

Process Step Interface determination

eDoc. Process	Vers	Process Step	eDoc Type	Source Type	Proc.Step ...	Interface ID	Direction	Interface Description
ZTROEI	1	GET_MDN_R	AU_CRE			UBL_GET_RESPONSE_RESPONSE	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	GET_MDN_R	AU_INV			UBL_GET_RESPONSE_RESPONSE	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	GET_MDN_R	BE_CRE			UBL_GET_RESPONSE_RESPONSE	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	GET_MDN_R	BE_INV			UBL_GET_RESPONSE_RESPONSE	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	GET_MDN_R	JP_CRE			UBL_GET_RESPONSE_RESPONSE	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	GET_MDN_R	JP_INV			UBL_GET_RESPONSE_RESPONSE	I Inbound	▼ UBL Credit Note Transmission
ZTROEI	1	REQ_SEND	AU_CRE			UBL_CREDIT_NOTE_TRANSM	O Outbound	▼ UBL Credit Note Transmission
ZTROEI	1	REQ_SEND	AU_INV			UBL_INVOICE_TRANSM	O Outbound	▼ UBL Invoice Transmission
ZTROEI	1	REQ_SEND	BE_CRE			UBL_CREDIT_NOTE_TRANSM	O Outbound	▼ UBL Credit Note Transmission
ZTROEI	1	REQ_SEND	BE_INV			UBL_INVOICE_TRANSM	O Outbound	▼ UBL Invoice Transmission
ZTROEI	1	REQ_SEND	JP_CRE			UBL_CREDIT_NOTE_TRANSM	O Outbound	▼ UBL Credit Note Transmission
ZTROEI	1	REQ_SEND	JP_INV			UBL_INVOICE_TRANSM	O Outbound	▼ UBL Invoice Transmission

Define ONESOURCE E-Invoicing (OEI) Schema

As a prerequisite, you must define ONESOURCE E-Invoicing (OEI) Schema. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure

      a. Call up transaction **/TROSEI/SCHEMA**
      b. Display the entries

Example

Display View "OEI Schema": Overview

OEI Schema

C/R	Schema ID	OEI ID
BE	ACCOUNTINGCUSTOMERPARTY-PARTYIDENTIFICATIONID-SCHEMEID	0088
BE	ACCOUNTINGCUSTOMERPARTY-PARTYLEGALENTITIES-SCHEMEID	0088
BE	ACCOUNTINGCUSTOMERPARTY-PARTYTAXSCHEMES-TAXSCHEMEID	VAT
BE	ACCOUNTINGSUPPLIERPARTY-PARTYIDENTIFICATIONID-SCHEMEID	0088
BE	ACCOUNTINGSUPPLIERPARTY-PARTYLEGALENTITIES-SCHEMEID	0088
BE	ACCOUNTINGSUPPLIERPARTY-PARTYTAXSCHEMES-TAXSCHEMEID	VAT
BE	BUYERCUSTOMERPARTY-PARTYIDENTIFICATIONID-SCHEMEID	0088
BE	BUYERCUSTOMERPARTY-PARTYLEGALENTITIES-SCHEMEID	0088
BE	BUYERCUSTOMERPARTY-PARTYTAXSCHEMES-TAXSCHEMEID	VAT
BE	DELIVERIES-DELIVERYLOCATION-ID-SCHEMEID	0088
BE	DOCUMENTLINES-ITEM-CLASSIFIEDTAXCATEGORIES-TAXSCHEMEID	VAT
BE	DOCUMENTLINES-ITEM-STANDARDITEMIDENTIFICATION-SCHEMEID	0088
BE	DOCUMENTLINES-TAXTOTALS-TAXSUBTOTALS-TAXSCHEMEID	VAT
BE	TAXTOTALS-TAXSUBTOTALS-TAXCATEGORIES-TAXSCHEMEID	VAT

Define ONESOURCE E-Invoicing (OEI) Tax Schema

As a prerequisite, you must define ONESOURCE E-Invoicing (OEI) Tax Schema. This configuration is pre-defined and made available in your system through Transports. Do not make changes to this configuration, this is shown for reference only.

Procedure

     a. Call up transaction **/TROSEI/TAXSCHMA**
     b. Display Entries

Example

Display View "OEI Tax Schema": Overview of Selected Set

OEI Tax Schema

OEI ID	Description
0088	BELGIUM
VAT	VALUE ADDED TAX.

To review the list of Tax Schema used by Pagero refer to PUF Tax Schema

Statuses and Error Handling

This section lists all the possible statuses and required error handling steps to be taken to address the errors for Accounts Receivable e-invoice processing.

ONESOURCE E-invoicing processes and statuses

Action	Initial Status	Possible Status (any of the below)
Submit	Created	Delivered to OEI ⚠ Delivered to OEI OEI Error: Refer File Column 🔴 OEI Error: Refer File Column
Check Status	Delivered to OEI	INP – In Progress Pagero ⚠ In Progress - Pagero SUB – Successful submission by Pagero 🟩 Successfully submitted-Pagero

		• ERR
		Error - Pagero
TROEI Cancellation	ERR – Pagero	Cancellation Pagero Cancellation - Pagero
<mark>Check Status (Italy)</mark>	SUB – Successful submission by Pagero	Accepted by Tax Authority Accepted by Tax Authority Rejected by Tax Authority Rejected by Tax Authority Business Acceptance - Pagero Business Acceptance - Pagero Business Rejection - Pagero Business Rejection - Pagero <mark>Dateline Passed</mark> Deadline Passed

Error Statuses and Handling

This section lists out the Error Statuses and Handling processes for Customer electronic invoices.

Process Status	Allowed Action	Final Status	Description
Created	More -> Cancel eDocument	Cancelled	Refer to section Cancellations from SAP
"OEI Error" Refer File Column	More -> Cancel eDocument	Cancelled	Refer to section Cancellations from SAP
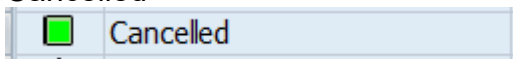
Error: Pagero	More -> TROEI Cancellation	Cancellation - Pagero	Refer to section [Cancellations from Thomson Reuters ONESOURCE E-Invoicing (OEI)](#)
Rejected by Tax Authority	More -> Cancel eDocument	Cancelled	Refer to section [Cancellation of invoices Rejected by Tax Authority](#)
Business Rejection	More -> Cancel eDocument	Cancelled	Refer to section [Cancellation of Invoices with Business Rejection](#)

Cancelling Electronic Documents (Seller)

Cancellations from SAP for invoices not yet sent to OEI

Cancellation of electronic documents, such as electronic invoices or credit memos in SAP which **were not sent to ONESOURCE E-Invoicing (OEI)** yet. You can only cancel electronic documents (eDocuments) if they are in any of the following statuses:

1. **Status: Created**

Initial Status	Action Allowed	Final Status
Created	More > Cancel eDocument	Cancelled

Do the following to Cancel:

      a. Call up transaction EDOC_COCKPIT

      b. Choose respective e invoice process on left side.

      d. Select one or more eDocuments and choose More => Cancel eDocument.

The system cancels the electronic document. To keep the data consistent in your system, ensure that you reverse or cancel the corresponding source document manually.

Before Cancellation:
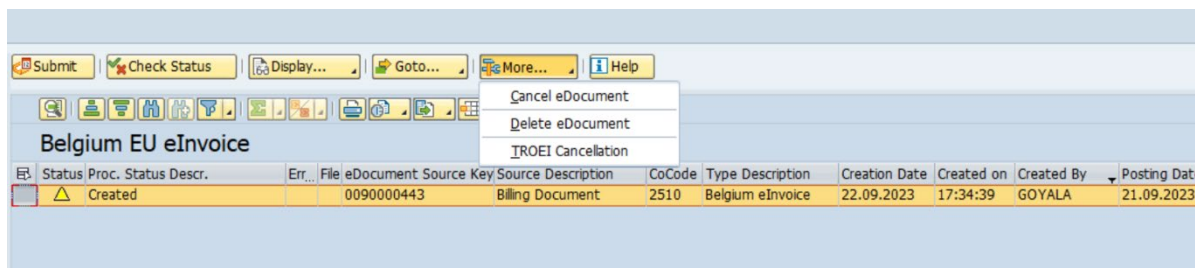
After Cancellation: Select the line, Click Goto -> History
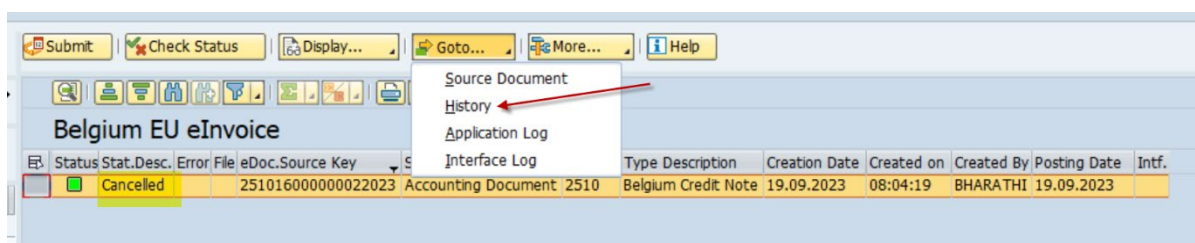
Document Log: Showing Process Status first as CREATED and then CANCELLED

2.   Status: "OEI Error" Refer File Column

Initial Status	Action Allowed	Final Status
"OEI Error" Refer File Column	More > Cancel eDocument	Cancelled 🟩 Cancelled

For this status electronic documents haven't been received by the ONESOURCE E-Invoicing (OEI) system due to error. To view the error, Select the line and double click icon in "File" Column. This will open the .xml file, scroll down to see the error.

Example: Against eDocument "0090000247" the address of customer is incomplete.

Resolution: Cancel the document by selecting the line and hit More-> Cancel eDocument. The final status would be Cancelled.

Cancelling invoices from SD/FI already sent to buyer

1.   SD Billing Documents

You want to cancel an electronic document that has already been received by the customer. You must create a SD credit memo.

2.   FI Billing Documents

You want to cancel an electronic document that has already been received by the customer. You must create a credit memo.

Cancellations from Thomson Reuters ONESOURCE E-Invoicing (OEI)

Status: "Error: Pagero" Refer File Column

This status shows the e-document has been sent to Pagero and failed its validation checks. In this instance, execute the TROEI Cancellation function which will send back a cancellation acknowledgement to Pagero.

Initial Status	Action Allowed	Final Status
Error: Pagero	More -> TROEI Cancellation	Cancellation - Pagero 🟩 Cancellation - Pagero

Do the following to Cancel:

 a. Call up transaction EDOC_COCKPIT

 b. Choose respective e invoice process on left side.

 d. Select one or more eDocuments and choose More => TROEI Cancellation.

The system cancels the electronic document. To keep the data consistent in your system, ensure that you reverse or cancel the corresponding source document manually.

Before Cancellation:
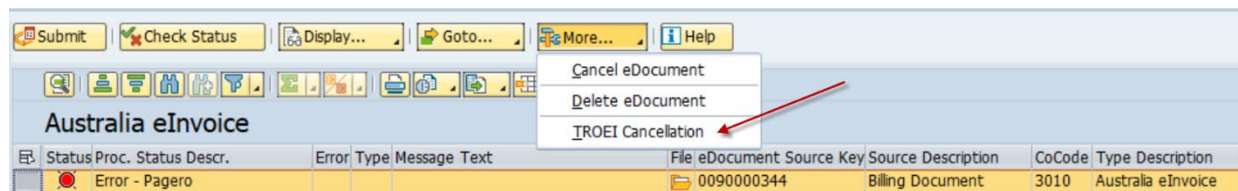
After Cancellation: Select the line, Click Goto -> History
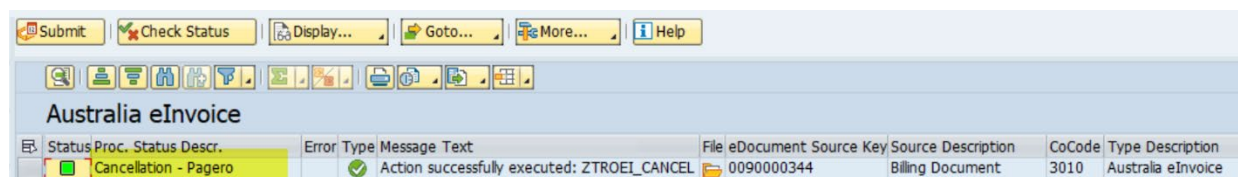
Document Log: Showing Process Status first as CREATED and then ERR_PAGERO and finally CAN_PAGERO

Cancellation of invoices Rejected By Tax Authority

Status: Rejected by Tax Authority

When an electronic document processed through ONESOURCE E-Invoicing (OEI) and Pagero fails validation by the Tax Authority, the end user is required to cancel the eDocument. To view the error, select the respective line and double-click on the icon in the 'File' column. This action will open the .xml file, allowing you to scroll down and identify the error.

Initial Status	Action Allowed	Final Status
"Rejected by Tax Authority"	More > Cancel eDocument	Cancelled

Example:

Document 0090006785 is rejected by tax authority with reason code "CLR" in the response payload.


```
- <DOCUMENTRESPONSES>
    - <item>
          <RESPONSECODE>CLR</RESPONSECODE>
       - <STATUSES>
          - <item>
                <REASONCODE>OTH</REASONCODE>
             - <REASON>
                - <item>
                      <DESCRIPTION>00404: Fattura duplicata : Fattura duplicata numero 423100453083 del 10/02/2024 ,
                      posizione nel lotto 1 Verificare che il campo Numero dei "DatiGeneraliDocumento" sia unico per
                      cedente/prestatore, tipo documento e anno</DESCRIPTION>
```

Cancel the document by selecting the line and hit More-> Cancel eDocument. The final status is now Cancelled.

Cancellation of Invoices with Business Rejection

Status: Business Rejection

When an electronic document, having undergone processing via ONESOURCE E-Invoicing (OEI), Pagero, and the Tax Authority, encounters rejection by the Buyer, the end user is tasked with cancelling the eDocument. To review the error details, simply select the corresponding line and double-click the icon in the 'File' column to open the xml file and view the error.

Initial Status	Action Allowed	Final Status
"Business Rejection"	More > Cancel eDocument	Cancelled

Example:

Document 0090006746 is rejected by the Buyer with reason code "BUR" in the response payload.


```
- <DOCUMENTRESPONSES>
  - <item>
       <RESPONSECODE>BUR</RESPONSECODE>
     - <STATUSES>
       - <item>
            <REASONCODE>OTH</REASONCODE>
          - <REASON>
            - <item>
                 <DESCRIPTION>EC02: NELLA FATTURA È STATA ERRONEAMENTE INDICATA LA NS. PARTITA IVA , VA
                 INDICATO SOLO IL CODICE FISCALE IL CIG È ERRATO QUELLO ESATTO È IL SEGUENTE:
                 Z253AE19D5</DESCRIPTION>
              </item>
```

Cancel the document by selecting the line and hit More-> Cancel eDocument. The final status is now Cancelled.

Italy Fattura XML

Status	Proc. Status Descr.	eDoc.Source Key	File	eDocument GUID	Source Description	CoCode	Type Desc.	Cre.Date	Created	Created By
🟨	Cancelled	0090006746	📁	0E8978F1268B1EDEB5DB392EA08DC357	Billing Document	2310	Italy Fattura	29.02.2024	08:09:00	BHARATHI

Appendix (Country Specific)

Japan: Implementation of OSS Notes

In your SAP S/4HANA system, you may find that implementation of the e-invoice solution requires additional OSS notes to be implemented for Japan. We have listed here the known OSS notes that are required, however there may be additional notes that are not identified.

Note Number	Short Text
3071425	eDocument EU: Corrections
3085941	eDocument EU: Corrections
3109533	eDocument EU: Corrections
3109609	eDocument EU: Interface Connector BAdI Filter
3119850	eDocument EU: Prerequisite for SAP Note 3109533
3134550	eDocument EU: Corrections
3170418	eDocument EU: Corrections
3181533	eDocument EU: Prerequisite for SAP Note 3134550
3210223	eDocument EU: Corrections
3247510	eDocument EU: Prerequisite for SAP Note 3210223
3270592	eDocument Japan - eInvoicing

Italy: Additional information

This section outlines additional configurations required when implementing the e-document solution for Italy.

Codice Destinatario (Accounting/Buyer Customer Party)

This field is designated by SDI/Tax Authority for the purpose of identifying the IPA Routing Code or Codice Destinatario for Italy's B2G and B2B transactions.

Procedure
   a. Go to transaction code **BP**
   b. Under BP Role "Customer Fin.Accounting" > go to Identification Tab to maintain the the IPA Routing Code or Codice Destinatario provided by SDI Authority under tax number category "**IT4**".
   c. Save entries.

Sample Configuration:

Stamp Duty (BOLLO)

This section relates to configuring Duty Stamp-related settings.
Italy Duty Stamp / BOLLO is applicable for both SD and FI transactions.

Procedure

a. SPRO Path: Financial Accounting Global Settings > Global Parameters for Company Code > Maintain Additional Parameters. Choose your Italy Company Code.
b. Under IBOLCU maintain the duty stamp related Condition Type from the Pricing Procedure [T.code -V/08] For Example: "BOLL" – Charged to Customer
c. Under IBOLFi Field maintain the GL Account for customer related to duty stamp. For example "0022006500"
d. Save entries.

Note: At this point this solution only supports BOLLO Charged to Customer.

Change View "Additional Data": Overview

Dialog Structure
- ▼ Company Code
  - • Additional Data

Company Code   2310

Additional Data

Par.type	Parameter type description	Parameter value
CGICD	CGI Code	
CGIID	CGI Identification	
CGIIR	CGI Issuer	
CGIPRT	CGI Party (Bank-Specific)	
DTLTAX	Detail Tax Entry with MIRO	
IBOLCU	Condition Type Bollo/Customer	BOLL
IBOLFI	G/L Account Bollo/Customer	0022006500
IBOLSD	Condition Type Bollo/Company	ZBOL
IBOLVA	Default Value for Bollo	2.00
ICASOC	Company Stock Capital	SRL
IDPCEI	G/L Account Down Payt Clearing	

Registration Data

This section lists configuration required by SDI to identify the legal entity and its status related Province of registry, Company Registration Number, Share Capital, Status of Share holder and liquidation status.

Description	Table Field	Field	Payload Syntax
Province Of Registration Office	T001Z-PAVAL	IUFFIC	IT:Ufficio
Company Registration Number	T001Z-PAVAL	INRREA	IT:NumeroREA
Share Capital	T001Z-PAVAL	ICASOC	Allowed values (SpA, SApA, SRL), the string should be ignored IT:CapitaleSociale
Status of Share Holder	T001Z-PAVAL	ISOCUN	Allowed Values "SU" or "SM" else this string should be ignored. IT:SocioUnico
Liquidation Status	T001Z-PAVAL	ISTLIQ	Allowed values: LS or LN. else this string should be ignored IT:StatoLiquidazione

Procedure

    a. SPRO Path: Financial Accounting Global Settings > Global Parameters for Company Code > Maintain Additional Parameters

    b. Based on the limitations mentioned above maintain the respective data pertaining to your company code related to Italy.

    c. Save entries.

Sample Configuration:

Tax Chargeability

This section lists configuration utilized by the SDI/Tax Authority to indicate whether the tax is for Immediate Effect, Unrealized VAT, or Splitting of Tax payments.

Procedure

      a. Enter table/ view **/TROSEI/V_TXCHRG** using transaction SM30.

      b. Under C/R field, enter the Country "IT"

      c. Under TX field, enter the SAP Tax code

      d. Under OEI Value maintain the conversion value

            a. I – VAT with immediate effect

            b. D – VAT unrealized [For Ex., Deferred Tax]

            c. S – Splitting of Tax Payments [When Buyer intends to pay the tax directly]

d. Save entries.

Taxchargeability View

View: /TROSEI/V_TXCHRG
Datum: 16.03.2024

Ctry/Reg.	Tax Code	Osei Val...
IT	S1	S
IT	S2	S
IT	S3	S
IT	SA	D
IT	V0	I
IT	V1	I
IT	V2	I

Additional country scope

While we endeavor to include configuration content for as many countries as possible within the ONESOURCE E-invoice solution, there may be countries that have not yet been covered in the content. However, by utilizing the SAP e-document framework and the Thomson Reuters E-Invoice solution for SAP S/4HANA, support for additional countries can be easily accommodated through the adaptation of the following configurations.

eDocument Type

While SAP provides standard e-document types, if they are not yet available for the specific country you intend to implement, you have the option to create a custom e-document type.

In this context, we will use the custom e-document type for Malaysia's e-document implementation as an illustrative example.

Procedure

a. Enter table/ view **EDOTYPEV** using transaction SM30.
b. Click Edit
c. Create an eDocument Type in the customer namespace and enter a description.

Display View "eDocument: Type": Over

eDocument: Type

eDocument ...	Type Description
MY_CRE	Malaysia Credit Note
MY_INV	Malaysia eInvoice

eDocument Process

Procedure

a. Enter table/ view **EDOPROCESSV** using transaction SM30.
b. Click Edit.
c. Create an eDocument in the customer namespace for Outgoing Invoice and Incoming Invoice.

For customer electronic invoices, assign Ref. Proc. **ZTROEI**
For supplier electronic invoices, assign Ref. Proc. **ZTROEIIN**

Display View "eDocument Process": Overview

eDocument Process

eDoc. Process	Process Description	Ref. Proc.	Service	Country/Region
MYINV	Malaysia eInvoice	ZTROEI	✓	MY
MYINVIN	Malaysia Incoming eInvoice	ZTROEIIN	✓	MY

eDocument-EU Party Identification Type

Procedure

a. Enter table/ view **EDOEUPARTYV** using transaction SM30.
b. Click Edit.
c. Create a party ID type previous maintained in [Assign Party ID Types to Business Partner](#) and [Assign Party ID Types to Companies](#).
 d. Maintain the Code Type by referring to the Peppol Electronic Address Schema https://docs.peppol.eu/poacc/billing/3.0/codelist/eas/

eDocument - EU Party Identification Type

View: EDOEUPARTYV
Datum: 11.03.2024

PartyIDT	Description	Mapp Class Outbound	Mapping Method Outbound	Mapp Class Inbound	Mapping Method Inbound	Ctry ISO	CodeTy	Vaild To
MY:VAT	Malaysia VAT Number	CL_EDOC_MAP_UBL	READ_VAT_NUMBER	CL_EDOC_MAP_UBL	GET_PARTY_BY_VAT_NUMBER	MY	9925	

e-Document Process Step Determination

Procedure

a. Enter table/ view **EDOPROCSTEPDETV** using transaction SM30.
b. Click Display
c. Add all the relevant eDoc Type for EDoc. Process "ZTROEI" for Process Step "**GET_MDN_R**" and "**REQ_SEND**".

Process Step determ.: interface shall execute this step

View: EDOPROCSTEPDETV
Client: 804
Datum: 11.03.2024

Process	Vers	Interface ID	eDoc Type	Source Type	Process Step	Direction	Interface Description
ZTROEI	1	UBL_GET_RESPONSE_RESPONSE	MY_CRE		GET_MDN_R	I	UBL Credit Note Transmission
ZTROEI	1	UBL_GET_RESPONSE_RESPONSE	MY_INV		GET_MDN_R	I	UBL Credit Note Transmission

e-Document Process Step Interface Determination

Procedure

a. Enter table/ view **EDOPROCSPINTDETV** view using SM30.
b. Click Edit
c. Add all the relevant eDoc Type for EDoc. Process "ZTROEI" for Process Step "**GET_MDN_R**" and "**REQ_SEND**".

Process Step Interface determination

View: EDOPROCSPINTDETV
Client: 804
Datum: 11.03.2024

Process	Vers	Process Step	eDoc Type	Source Type	Variant	Interface ID	Direction	Interface Description
ZTROEI	1	GET_MDN_R	MY_INV			UBL_GET_RESPONSE_RESPONSE	I	UBL Credit Note Transmission
ZTROEI	1	REQ_SEND	MY_INV			UBL_INVOICE_TRANSM	O	UBL Invoice Transmission