

ONESOURCE™ INDIRECT TAX INTEGRATION FOR SAP BUSINESS ONE

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	June 2023	SAP Business One Integration - Setup, Configuration and User Guide – Initial Version
1.1.0.0	February 2024	Support for HANA DB compatibility
1.2.0.0	December 2024	Tax Details Screen, Recording API Log

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Integration Overview

Thomson Reuters offers a cloud-based integration of ONESOURCE Determination with SAP Business One for countries with Value Added Tax (VAT) regime. ONESOURCE Determination integrates with SAP Business One through the SAP Business One DIAPI, an integration platform that exposes Business One data and services, maps ONESOURCE Determination fields to the SAP Business One fields and returns the Calculated Tax amounts and rates.

This integration will support the following events from SAP Business One.

- Estimate Tax Calculation Calls for Sales Quotations, Sales Orders, Purchase Quotations and Purchase Orders
- Audited Tax Calculation Calls for Accounts Receivable Invoices and Cancellation of A/R Invoices, A/P Invoices and Cancellation of A/P Invoices
- Estimate and Audited Tax Calls for Sales Returns or A/R Credit Memos, Purchase Returns or A/P Credit Memos

ONESOURCE Indirect Tax Determination using the REST API for SAP Business One is supported for the SAP SQL Version. These extensions would work for both the on-premises environment and cloud cluster. In addition, with this release, HANA DB compatibility is now supported.

Prerequisites

This integration is supported for SAP Business One (SQL) version 10.0 or higher for both On Cloud and On-Premises deployments. In addition, HANA DB compatibility is now supported.

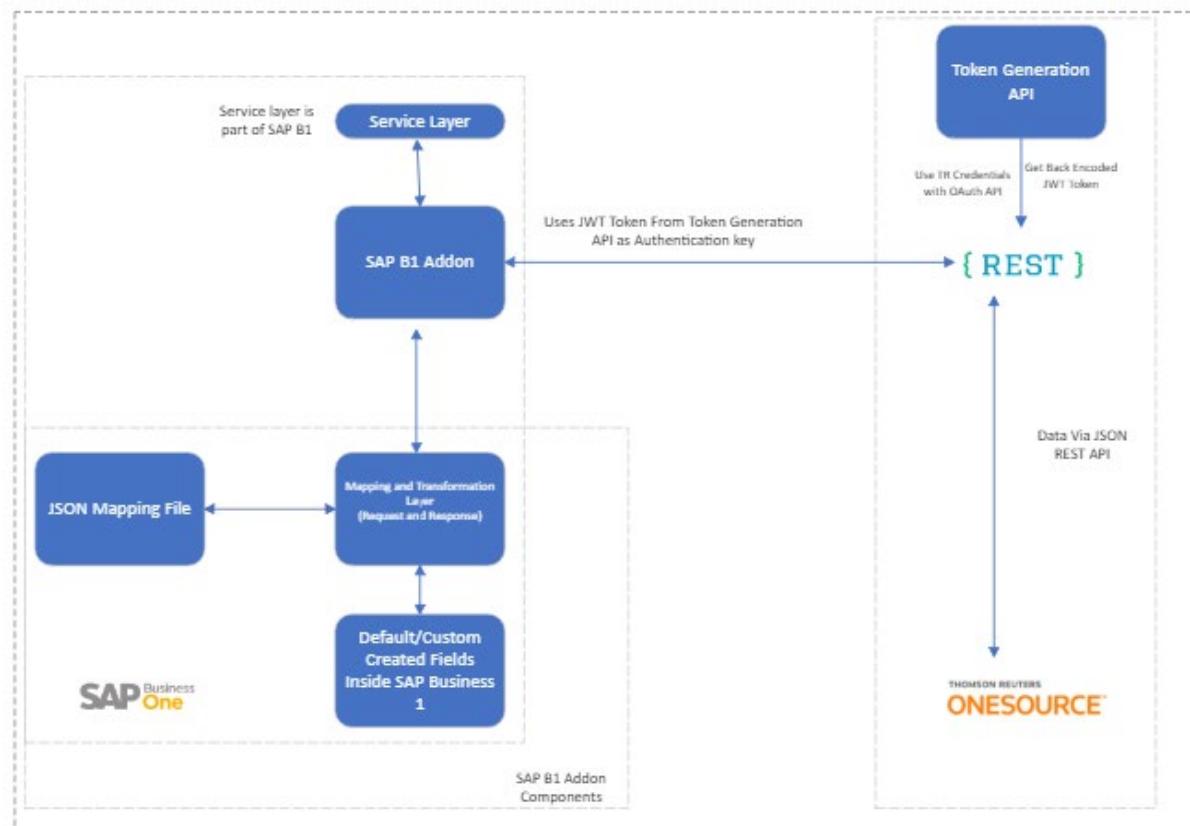
For a successful implementation of the integration with SAP Business One, please ensure you have procured the necessary packages and followed the implementation steps outlined below:

Platform	Component	Description
SAP Business One	Local and Cloud environment	<ul style="list-style-type: none">• Add and activate the Thomson Reuters SAP Business One extensions to the system setup.• Build and update the system with VAT localization settings to activate the extensions.• Maintain relevant system configuration for various integration options including connection details and authentication options.
ONESOURCE Determination	Cloud Environment	<ul style="list-style-type: none">• Set up of the External Company ID that uniquely identifies the tax request within the ONESOURCE

Determination solution for audit, reporting, and returns purposes.

- OAuth2 authentication details are required to set up the integration.

Architecture and Design Overview



The Thomson Reuters ONESOURCE Determination Integration with SAP Business One uses the Service Layer to seamlessly connect to the Indirect Tax Calculation REST API.

This extension or add-on needs to be added to your setup to trigger and manage the tax calculation calls.

To support this integration, you will need to have some additional fields on your marketing documents in SAP B1. These fields provide extra information needed for the tax breakdown.

To display the calculated taxes from ONESOURCE Determination, this integration utilizes the Freight Setup functionality within SAP Business One to define the various levels of authorities.

For security purposes, authentication and client credentials will be verified with every tax call. Your credentials are securely stored under the company setup.

Known Limitations

- The tax integration supports only one delivery addresses per document. Taxes will be determined based on this address.
- The Summarization feature is not yet available for this release.
- Batch processing of invoices for both sales and purchase processes are not supported.

Business Process Description

Order to Cash Process

Here the tax determination within SAP Business ONE is supported right from the quotation transaction. The quote will call ONESOURCE Indirect Tax Determination for tax calculation but will not record the tax liability (commit the transaction). After the quote is converted into an order, ONESOURCE Indirect Tax Determination will again be called to update the tax amount as it could change due to factors such as dates, pricing, quantities etc.

Depending on the tax jurisdiction, shipping costs that are added in the sales order could be a taxable or non-taxable event. After the shipping process, an invoice is generated and ONESOURCE Indirect Tax is called again for a final update of the taxes. Once the final invoice is created, ONESOURCE Indirect Tax Determination is updated by a final commit tax call with the tax liability stored for future reporting and returns processing.

A Correlation ID is generated for each document, which can be used for audit, tracking and reconciliation purposes.

The business processes covered by this integration are:

- Sales Quotes
- Sales Orders
- Sales Invoices
- Credit Memos
- Invoice Void/Cancellations

Procure to Pay Process

Similar to the Order to Cash process, tax determination within SAP Business ONE is supported right from the purchase quotation to AP invoice transaction. The quote will call ONESOURCE Indirect Tax

Determination for tax calculation but will not record the tax liability (commit the transaction). After the quote is converted into a purchase order, ONESOURCE Indirect Tax Determination will again be called to update the tax amount as it could change due to differences in dates, pricing, quantities etc.

As well, depending on the tax jurisdiction, shipping costs that are added in the purchase order could be a taxable or non-taxable item. After the shipping process, a purchase invoice is generated and ONESOURCE Indirect Tax is called again for a final update of the taxes. Once the final invoice is created, ONESOURCE Indirect Tax Determination is updated by a final commit tax call with the tax liability stored for future reporting and returns processing.

A Correlation ID is generated for each document, which can be used for audit, tracking and reconciliation purposes.

Within the purchase invoice, this solution also integrates with the ONESOURCE Determination Vendor Charge Tax Verification (VCT-V) functionality. This feature automates the decision-making process to support and handle differences between ONESOURCE Determination calculated tax and the vendor charged tax by using the ONESOURCE Determination VCT-V functionality for vendor invoices.

In this solution, we are not using the default SAP Tax engine to calculate taxes. Instead, post-installation, it is necessary to create an "INA" tax code for purchases and an "ONA" tax code for sales, both set at a 0% rate. These codes will be utilized by the tax determination process.

By using this approach, we ensure that the correct tax amount is accounted for while meeting the necessary legal regulations.

The business processes covered by this integration are:

- Purchase Quotes
- Purchase Orders
- Purchase Invoicing
- Purchase Credit Memos
- Invoice Void/Cancellations

How does integration work?

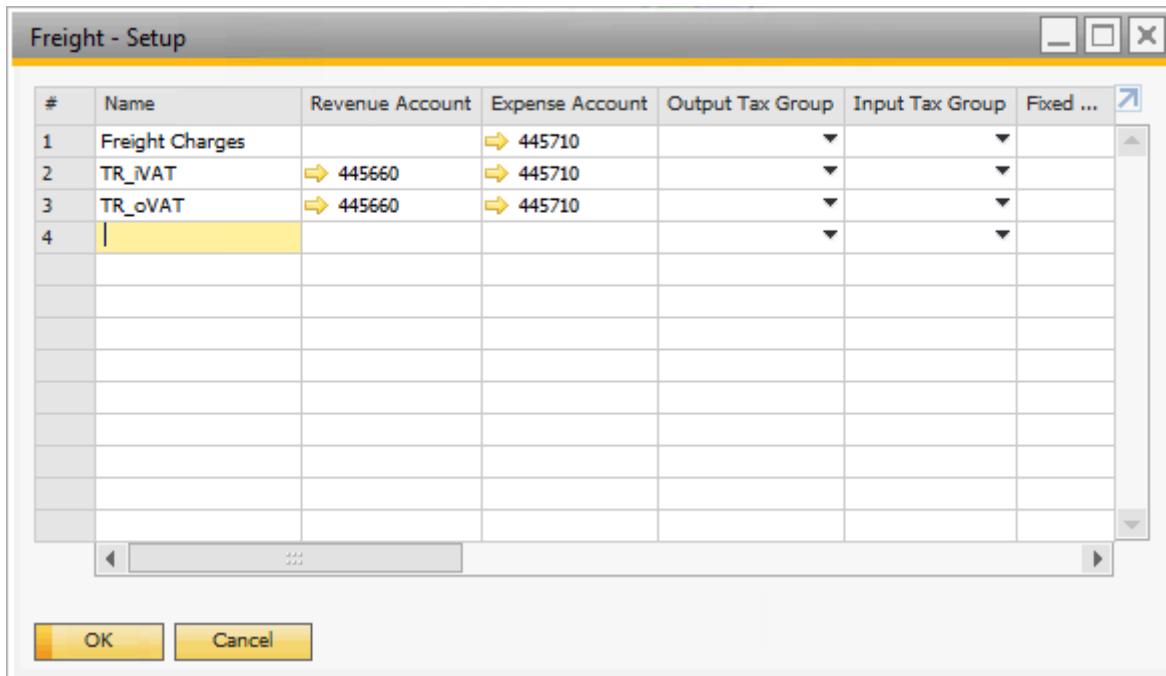
Display of Tax Authority Levels

In VAT countries, each taxation authority imposes the tax based on jurisdictions. After taxes are determined for each authority from ONESOURCE Indirect Tax, it gets assigned to relevant tax authority levels in Business One. In this integration we have mapped the following tax authority levels based on the effective zone levels as follows:

Business One Tax Authority Level	Effective Zone
TR_iVAT (for Purchase Transaction)	Country
TR_oVAT (for Sales Transaction)	Country

This integration utilizes the Freight Setup functionality within SAP Business One to define the various levels of tax authorities determined from ONESOURCE Determination.

To access Freight Setup: In SAP Business One, navigate to **Administration > Setup > Financials > Freight Setup**. The various breakdown of the taxes will be set up automatically when you import the extension.



Tax Code Usage

- With this solution, you are no longer required to set up tax codes as the SAP default Tax engine is not used. A default tax code of "INA" (for purchase) and "ONA" (for Sales) will be created automatically during the installation process.

Form Settings - A/R Invoice

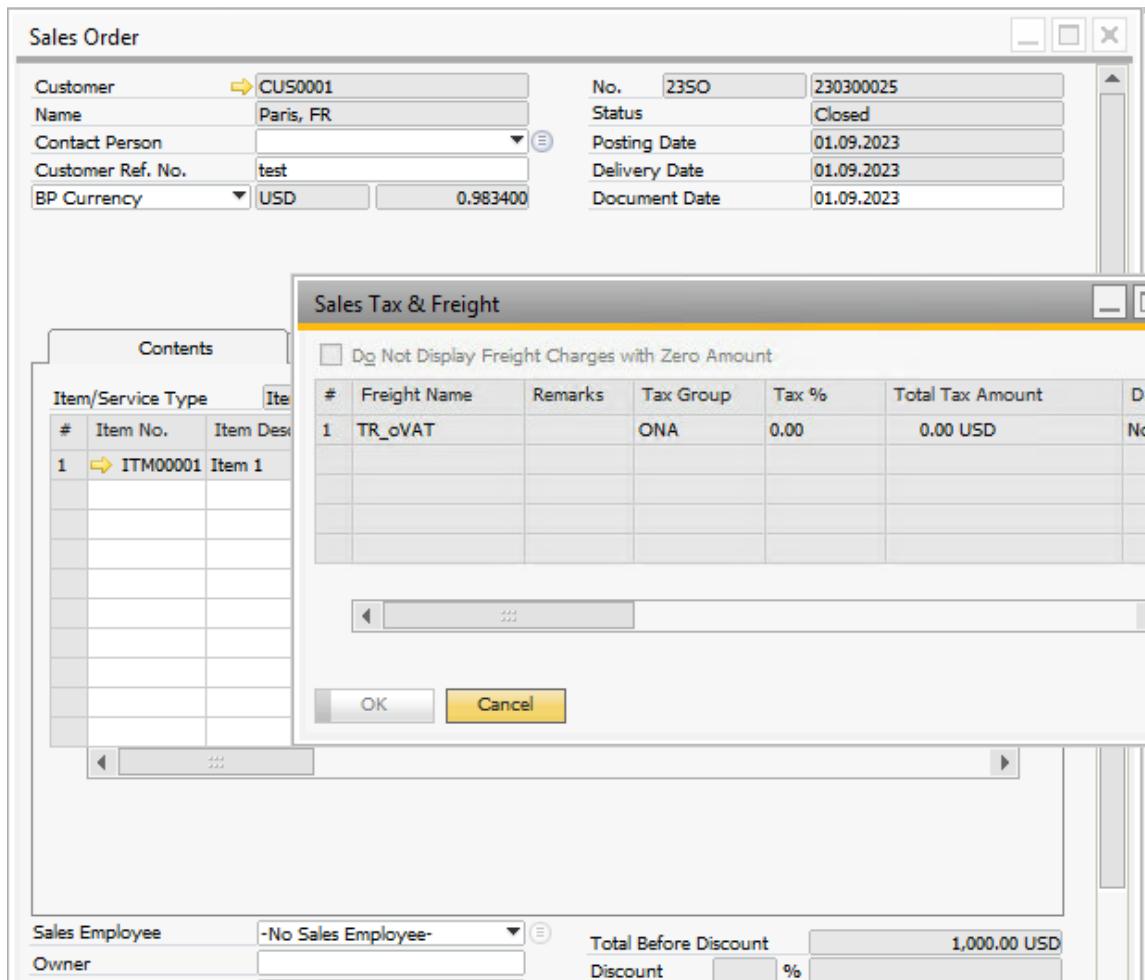
Select UI Template

Table Format

Find Next

Column	Visible	Active	<input type="button" value=""/>
Standard Item Identification	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Commodity Classification	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Reverse Charge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value=""/>
oVAT Rate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
oVAT Amount	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
IVAT Rate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
IVAT Amount	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Freight oVAT Rate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Freight oVAT Amount	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Freight IVAT Rate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Freight IVAT Amount	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Product Code	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>
Commodity Code	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value=""/>

- After entering all the details of the document, such as customer, date, reference, items details, unit price, quantity, discount (line and document level), warehouse (ship from location), and the ship to location, the user is required to click on the “Calculate” button to check and see the tax amount for the transaction.
- If any changes occur after calculating the tax and you attempt to save the transaction without recalculating, the system will automatically trigger the recalculation and apply the correct tax amount.
- Once all necessary information is entered and the system calculates the tax based on the address and jurisdiction, the tax amount will be displayed in the freight table, as shown in the image below. This window provides an overview of freight charges, other fees, and jurisdiction-specific tax details for final posting.



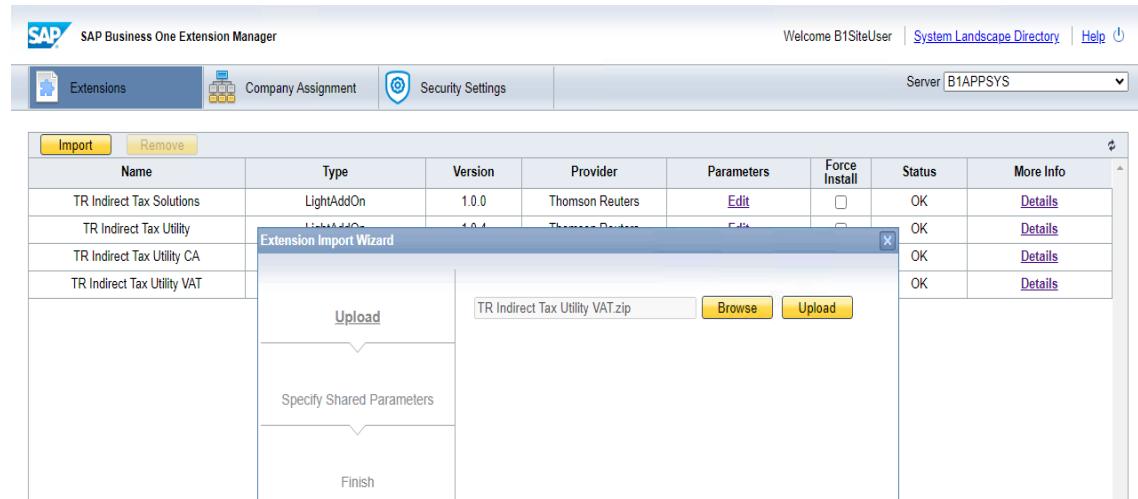
- If charges have no distribution method, the total tax amount and consolidated tax rate will be displayed in the Tax Rate and Tax Amount fields, while the Net Amount field will show the overall total.
- This solution supports Vendor Charged Tax (VCT) functionality during the purchase process, with different accrual methods. One exception to this rule: If the VCT amount is beyond the tolerance limit then system will show "HOLD PAYMENT" accrual method.
- If the accrual method is HOLD PAYMENT, the system will prevent posting the transaction until the user modifies the details or the system receives another accrual method. In such cases, users can save the document as a draft and later finalize it.

Installation and Set Up

Importing an Extension

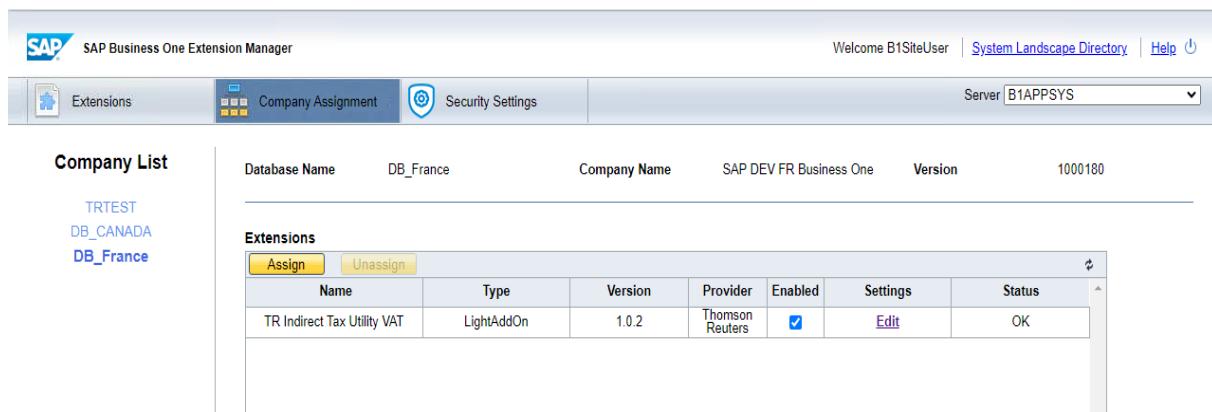
- Download the SAP Business One TR Indirect Tax Extension (Add-on) from Thomson Reuters Customer Centre. You need to have a valid subscription of the solution.

- Log in to SAP Business One Extension Manager, go to **Administration > Add-ons > Add-on Administration** and then click on **Extensions > Import**.
- The Extension Import Wizard window appears. Choose the **Browse** button to locate the zip file of your extension and choose **Upload**. Follow the prompts to complete the setup.



Assigning an Extension to a Company

- After performing the import, go to the **Company Assignment** tab. From the company list, select the company to which you want to assign the extension. Choose **Assign** to complete the setup.

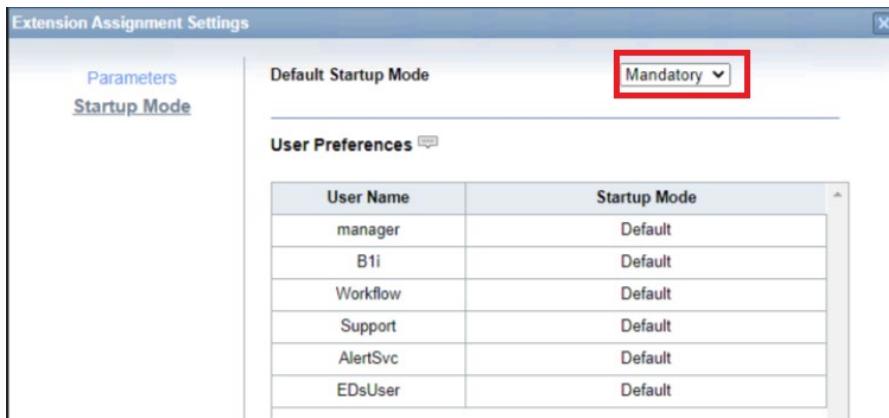


Specify Startup Mode

This is an on-time activity to default the Extension Startup Mode or to change a startup mode for a specific user.

To automatically run the extension for all transactions, from the **Specify Setup Mode** tab, select the default startup mode of this extension and specify the user preferences, and choose **Next**.

We recommend that you set the default startup mode to **Mandatory**, so that the extension starts automatically to enable all transactions created within SAP Business One to apply the ONESOURCE Indirect Tax Determination application.

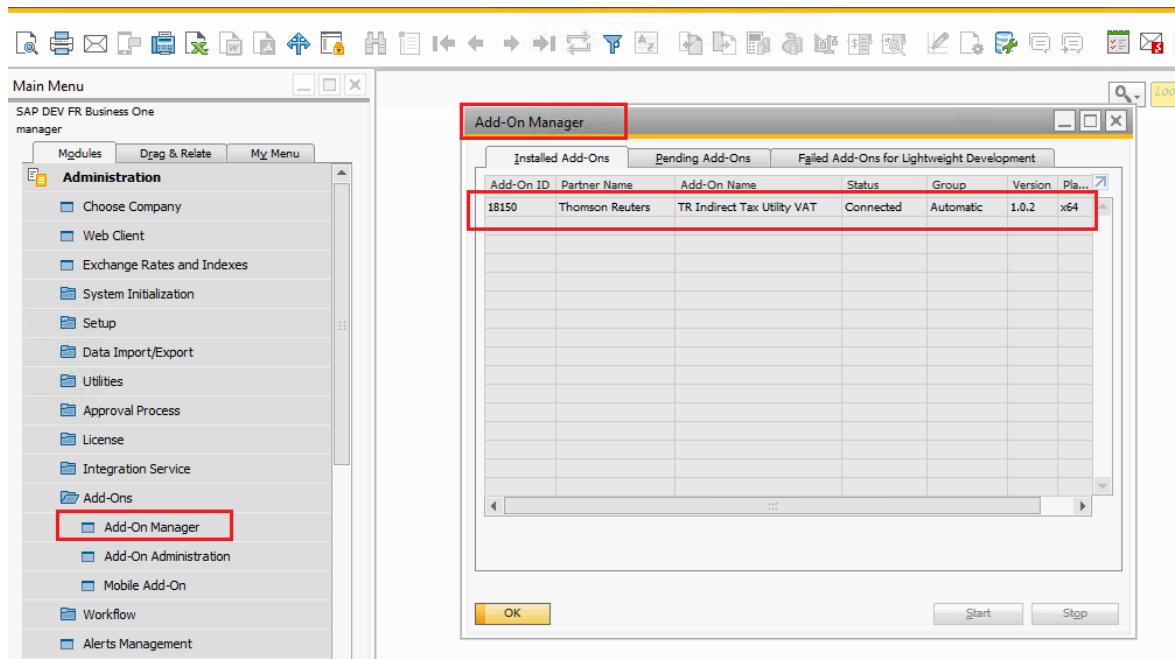


Running the Extension in SAP Business One

After you assign the extension to a company, the SAP Business One client will automatically load the extension the next time you log on to the company. If you have set the startup mode to **Automatic**, you now need to manually start the extension each time you log in.

From the SAP Business One Main Menu, choose **Administration> Add-Ons> Add-On Manager**. Select the extension and click on **Start**.

The SAP Business One client will start the system configuration and create the required fields and tables.

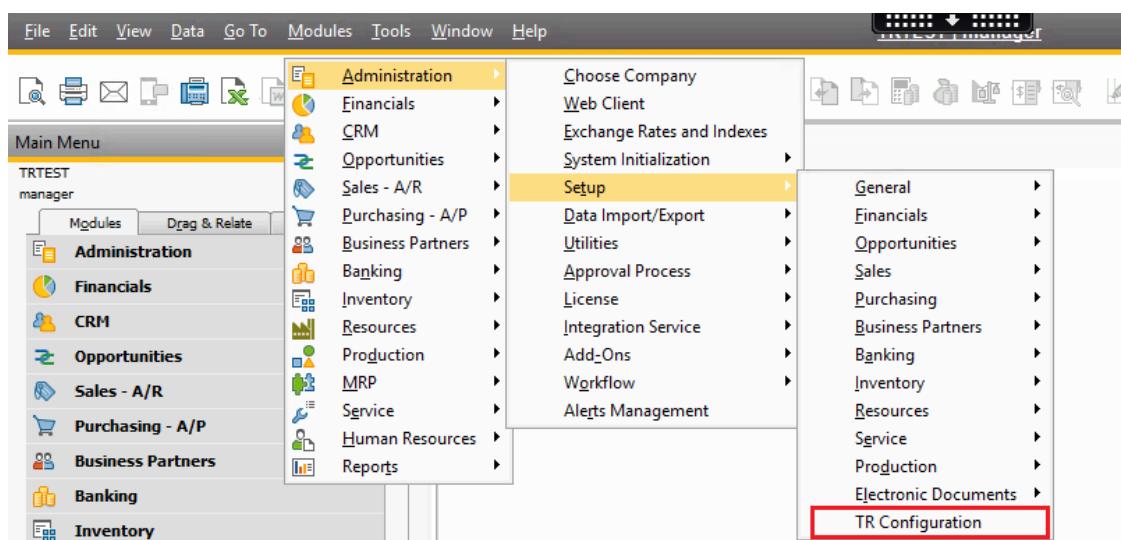


Connecting SAP Business One to ONESOURCE Determination

This section outlines the configuration steps required as an initial set up to connect your SAP Business One client to ONESOURCE Determination.

Company Setup

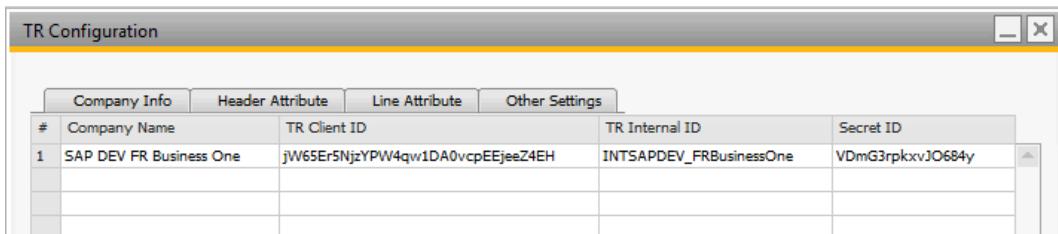
A custom TR menu is now available to carry out the relevant configurations for this integration. From the Main Menu, go to **Administration> Setup> TR Configuration**.



Fill in the required information as follows:

Field	Description
Company Name	The company name and corresponding branches will be automatically loaded.
TR Internal ID	This is the External Company ID within ONESOURCE Determination that uniquely identifies your company for its rules, rates, and other processing logic to be applied.
TR Client ID	This is the client id required for OAuth2 authentication of the tax

	calls. Obtain this information from your Professional Services team.
Secret ID	This is the client secret Id required for OAuth2 authentication of the tax calls. Obtain this information from your Professional Services team.

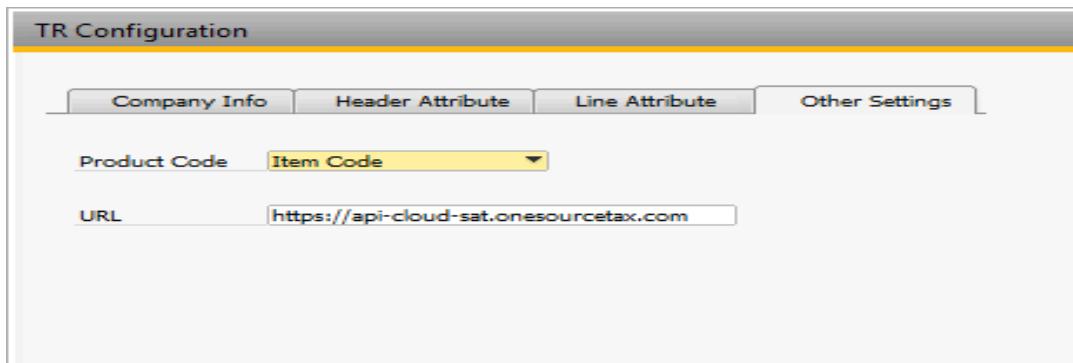


The screenshot shows the 'TR Configuration' window with the 'Company Info' tab selected. The table contains one row of data:

#	Company Name	TR Client ID	TR Internal ID	Secret ID
1	SAP DEV FR Business One	jW65Er5NjzYPW4qw1DA0vcpEEjeeZ4EH	INTSAPDEV_FRBusinessOne	VDmG3rpkxvJO684y

Maintaining ONESOURCE Determination URL

Go to the **Other Settings** tab and enter the Determination URL as provided by Thomson Reuters. This is a one-time set up.



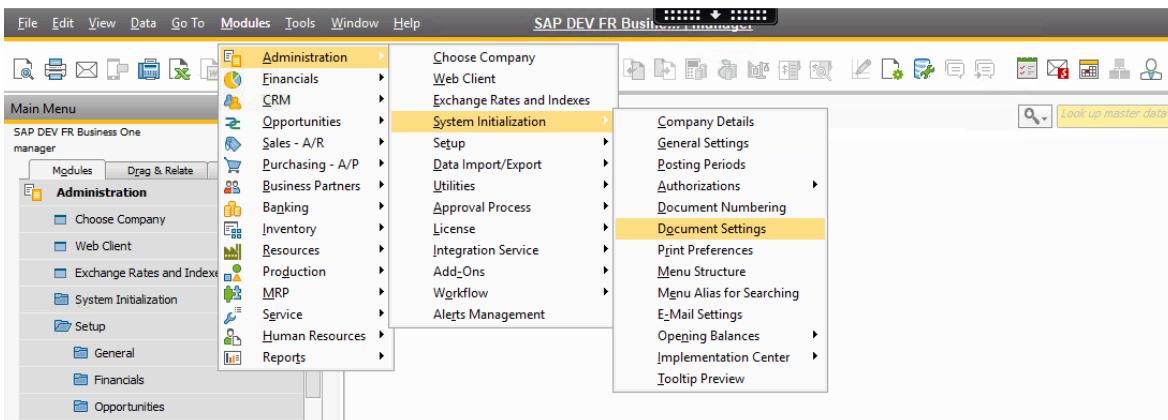
The screenshot shows the 'TR Configuration' window with the 'Other Settings' tab selected. The 'Product Code' dropdown is set to 'Item Code'. The 'URL' field contains the value: <https://api-cloud-sat.onesourcetax.com>.

Functional Configuration

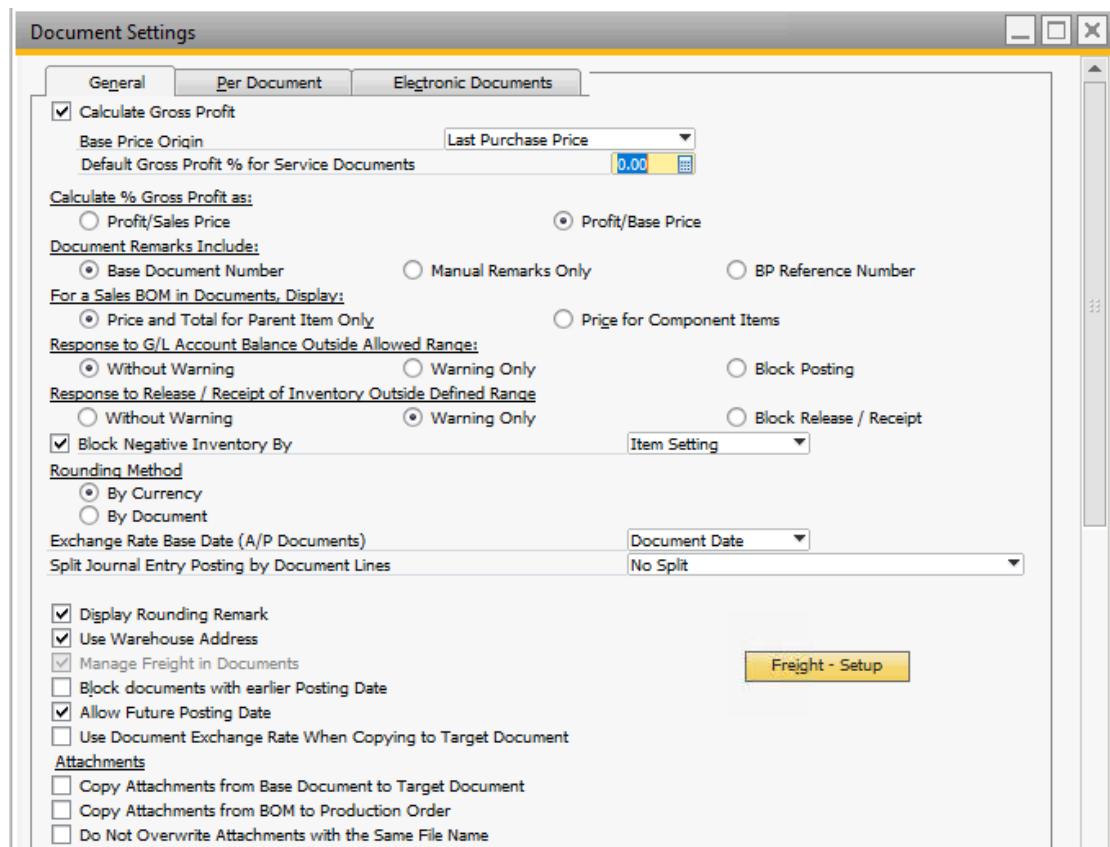
General Ledger Set Up

To define the General Ledger (G/L) accounts for the various tax levels in the integration. By defining the G/L accounts for each tax level in the Document Settings, you ensure that the integration correctly handles the posting of taxes to the respective G/L accounts based on the determined tax jurisdictions.

From the SAP Business One Main Menu, navigate to **Administration > System Initializations > Document Settings**.



Scroll down and locate the "Freight Setup" section. Click on **Freight – Setup** button.



Within the Freight Setup section, you will find options to define the G/L accounts for different tax levels or jurisdictions.

This section provides guidance to assign the appropriate G/L for the following processes. These are only recommended G/L account set up, please work with your G/L accountant to define the correct accounts for your company.

G/L setup for Sales Process

Maintain the appropriate G/L account under the **Revenue Account** setup at authority level.

For VAT Countries, the following authority level is defined.

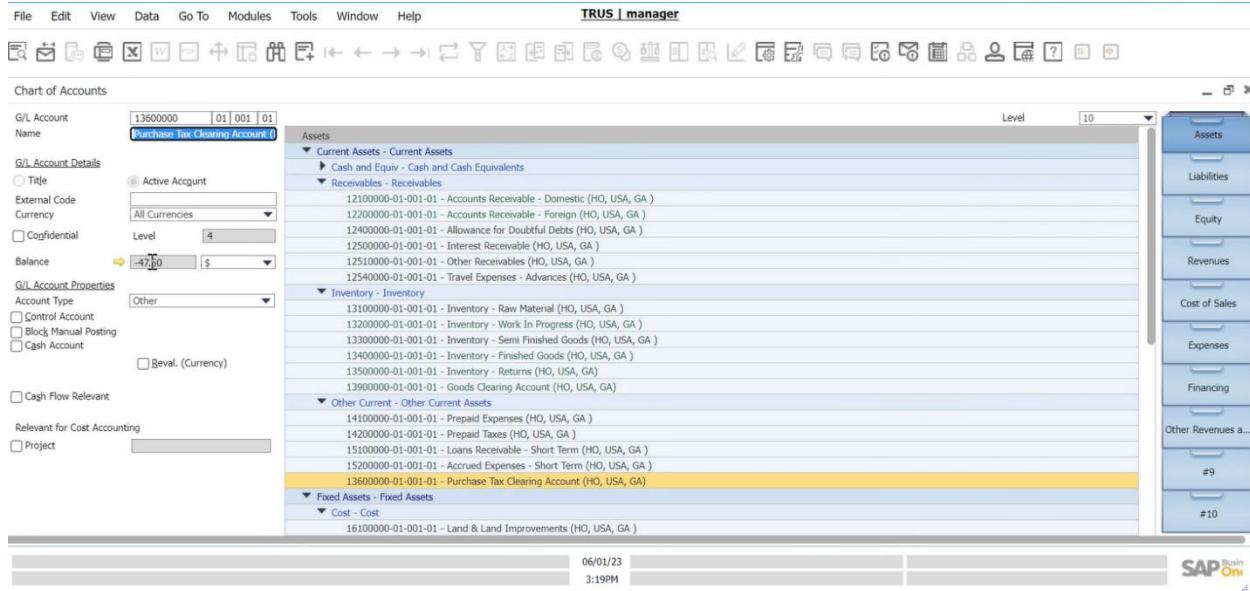
Tax Account	Description
TR_oVAT	G/L account where the country authority tax amount will be posted to under the Revenue Account setup.

G/L setup for General Purchase Process

Maintain the appropriate G/L account under the **Expense Account** setup at authority level. This would be the required setup to support the Purchase processes.

Create a G/L account in the Asset category called "Purchase Tax Clearing account." This account will be used for expense purposes related to the integration.

The screenshot below shows the setup of the Purchase Tax Clearing account.



For VAT countries, the following authority levels are defined.

Tax Account	Description
TR_iVAT	G/L account where the city authority tax amount will be posted to under the Expense Account setup.

By setting up the G/L accounts as described above, you can ensure that the tax amounts collected for each authority in the processes are accurately recorded as revenue. Expenses related to these tax amounts will be recorded in the "Purchase Tax Clearing Account."

Additional G/L setup for Vendor Charged Tax Process

The configuration of general ledger settings is not required for the Vendor VCT process. By enabling this process in Determination, your integration will seamlessly support the Hold-Payment method for Vendor VCT.

Master Data Maintenance

This section lists the required master data that needs to be configured in your SAP Business One client.

Customer Addresses (Ship-To) for Sales

Addresses are important elements to determine the tax for shipping goods from one location to another location. In this solution, ship-to addresses are defined in the customer master.

To define the ship-to addresses, go to **Business Partner Master Data > Addresses** tab. Select address type Ship-To, and click on **Define New**.

Business Partner Master Data

Code	Customer	CUS0001	Customer	Local Currency	5,455.00
Name	Paris, FR			Account Balance	0.00
Foreign Name				Deliveries	10,400.00
Group	Customers			Orders	
Currency	All Currencies			Opportunities	
Federal Tax ID	FR09417760156			Checks	

Checks

General Contact Persons Addresses Payment Terms Payment Run Accounting Properties Remarks Attachments

Bill To
Define New

Ship To
Paris
Define New

Ship To [Show Location in Web Browser](#)

Address ID	Paris
Address Name 2	
Address Name 3	
Street / PO Box	
Block	
City	Paris
Zip Code	
County	
State	
Country/Region	France
Federal Tax ID	FR09417760156
Street No.	

Set as Default

Enter the Address ID. Under the Country/ Region field, by default, this information will be populated per the country localization settings. You may change this information if required.

Enter the address details like state, county, city, Zip code/Postal Code, Geo Code etc.
Save the address.

Customer Registration Number

Please include your Customer VAT registration number, as it is a mandatory requirement for VAT.
Input the VAT registration number in the designated field **Federal Tax ID** on the screen below.

Business Partner Master Data

Code	Customer	CUS0001	Customer	Local Currency	19,669.02
Name	Paris, FR			Account Balance	0.00
Foreign Name				Deliveries	9,400.00
Group	Customers			Orders	
Currency	All Currencies			Opportunities	
Federal Tax ID	FR09417760156			Checks	

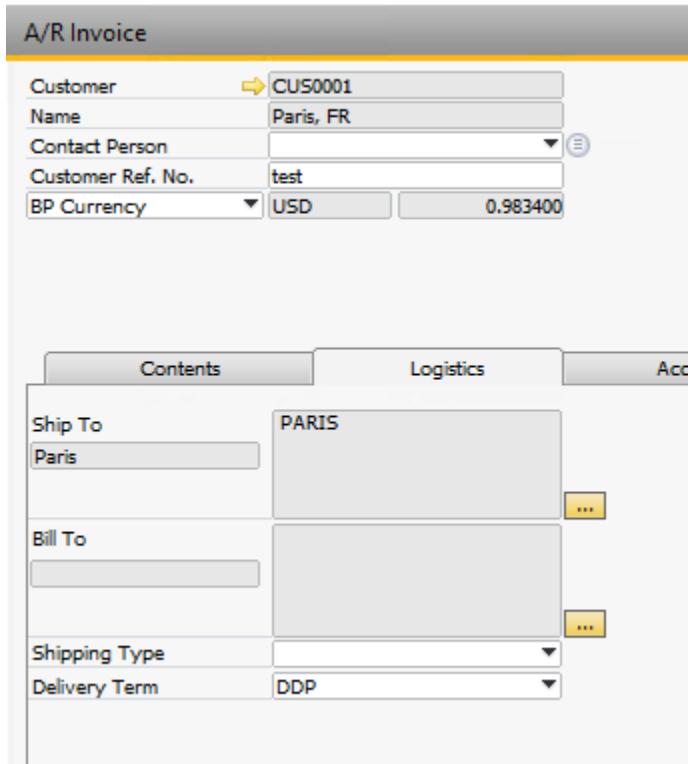
Checks

General Contact Persons Addresses Payment Terms Payment Run Accounting Properties Remarks Attachments

Tel 1		Contact Person	
Tel 2		ID No. 2	
Mobile Phone		Unified Federal Tax ID	FR09417760155
Fax			

Delivery Terms (Incoterms)

Enter the incoterms (delivery terms) in the logistic Tab under sales documents. Standard delivery terms are automatically predefined on the sales documents.



The screenshot shows the SAP A/R Invoice screen. At the top, there is a header bar with the text 'A/R Invoice'. Below this, there is a table with customer information: Customer (CUS0001), Name (Paris, FR), Contact Person (dropdown), Customer Ref. No. (test), and BP Currency (USD, 0.983400). Below this table, there is a navigation bar with tabs: 'Contents', 'Logistics' (which is selected and highlighted in blue), and 'Accounts'. Under the 'Logistics' tab, there are four fields: 'Ship To' (Paris, PARIS), 'Bill To' (dropdown), 'Shipping Type' (dropdown), and 'Delivery Term' (DDP). Each field has a small yellow '...' button to its right.

Vendor/Supplier Addresses (Ship-From) for Purchase

Addresses are important elements to determine the tax for shipping goods from one location to another location. In this solution, ship-from addresses are defined in the supplier/vendor master.

To define the ship-from addresses, go to **Business Partner Master Data > Addresses** tab. Select address type **Ship-To**, and click on **Define New** and enter the **Ship From** address name and other details like State, city, Zip code, GLN (geo location no/County no) etc. Multiple ship-from addresses can be entered.

Business Partner Master Data

Code	Supplier	SUP00001	Vendor	Local Currency	-1,000.00
Name	Supplier 1		Account Balance	-1,000.00	
Foreign Name			Goods Receipt POs	0.00	
Group	Vendors		Purchase Orders	-8,655.00	
Currency	All Currencies				
Federal Tax ID	FR09417760155				

General Contact Persons Addresses Payment Terms Payment Run Accounting Properties Remarks Attachments

Ship To [Show Location in Web Browser](#)

Address ID	Ship From - Paris
Address Name 2	
Address Name 3	
Street / PO Box	
Block	
City	Paris
Zip Code	
County	
State	
Country/Region	France
Federal Tax ID	FR09417760155
Street No.	

[Set as Default](#)

During the order creation process, the Ship-From field on the logistics tab will be available for selection. This customized field will come automatically when you install the Thomson Reuters integration package.

Purchase Order

Name	Supplier 1
Contact Person	
Vendor Ref. No.	
BP Currency	EUR

Contents Logistics Accounting

Ship To	BRITTANY
Pay To	
Shipping Type	
Ship From	Ship From - Paris
Delivery Term	
One Time Address	

Warehouse Addresses (Ship-From/Ship to) and Registration Numbers

The Ship-From and Ship-To address is an important element for tax determination to indicate shipping of goods from the seller's warehouse to the Buyer's ship-to location. Warehouse address can play both role as ship from (in case of Sale) as well as ship to (in case of Purchase).

In SAP Business One, the company address is managed in the company master as the registered address. However, warehouse locations may differ from this based on the warehouse used during the sales and purchase transaction.

To ascertain the correct tax, both the buyer and seller must have a registration number. In the warehouse master, users are required to input the tax registration number in the Federal Tax ID field. During sales transactions, this registration number serves as the seller's role, while in purchases, it functions as the buyer's role. Additionally, the supplier's registration number is utilized as the seller's role in the context of a purchase transaction.

To maintain the warehouse address and tax registration numbers, go to **Administration > Setup > Inventory > Warehouses**.

Enter the required address fields e.g., Country, State, County, City, Zip Code, Geo Code etc. and VAT Registration number in the Federal Tax Id field.

The screenshot shows the 'Warehouses-(Default) - Setup' dialog box. At the top, the 'Warehouse Code' is set to '01' and the 'Warehouse Name' is 'Paris'. The 'General' tab is selected. In the 'General' tab, there are checkboxes for 'Inactive' and 'Drop-Ship', and a checked checkbox for 'Nettable'. There are dropdown menus for 'Location' and 'Consignment Business Partner'. Below these are address fields: 'Street/PO Box', 'Street No.', 'Block', 'Building/Floor/Room', 'Zip Code', 'City' (set to 'Paris'), 'County', 'Country/Region' (set to 'France'), 'State', and 'Federal Tax ID' (set to 'FR801161988B01'). A link 'Show Location in Web Browser' is located next to the 'State' field. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Additional Supported Functionality

User Element Attributes

For this integration we have provided the ability to send an additional 40 User Defined Fields (UDFs) to ONESOURCE Determination for complex tax determination cases. These additional fields are mapped to ONESOURCE Determination as Custom Attributes at both the Invoice and Line Level. This configuration is optional.

Depending on your tax requirements, you have the ability to map and send up to 50 additional field. Here, you will be able to utilize any fields available within the SAP Marketing Document fields or set default values.

In this example below, a new custom Marketing Document field is created to represent the “Distribution Channel.”

Note: You may create new custom field via the Menu Tools> Customization Tools> User Defined Fields – Management under the category Marketing Documents.

To map the fields or default values to the Header or Line Level attributes, navigate to the TR Configuration Screens (Modules > Administration> Setup> TR Configuration> Header attribute or Line Attribute tab)

In the example below, a new custom field has been created to capture the distribution channel for the sales transaction. This is map to Header level User Attribute 1 under the column SAP UDFs. Alternatively, if you may send fixed or default values to ONESOURCE Determination in the attributes by defining the mapping under the column Static/Default Value

TR Configuration				
Company Info		Header Attribute	Line Attribute	Other Settings
#	TR Attributes	SAP UDFs	Static/Default Value	
1	Attribute01	U_DChannel		
2	Attribute02		CIF	
3	Attribute03			
4	Attribute04			
5	Attribute05			
6	Attribute06			
7	Attribute07			
8	Attribute08			
9	Attribute09			
10	Attribute10			
11	Attribute11			
12	Attribute12			
13	Attribute13			
14	Attribute14			
15	Attribute15			
16	Attribute16			
17	Attribute17			

OK | **Cancel**

Product Tax Category

Product Tax Category is an important element for tax determination as it categorizes a group of items or products having different taxability treatment. This Integration supports either categorization by Commodity Codes or Product Codes.

Commodity Codes

Maintain Commodity Codes under the field **Commodity Classification** within the Item Master Data

Item Master Data

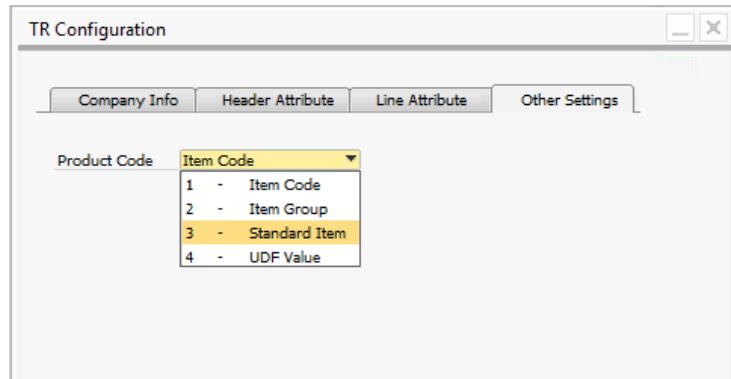
Item No.	Manual	00110	<input checked="" type="checkbox"/> Inventory Item
Description	Item No1 With Product Code and commodity		
Foreign Name			
Item Type	Items	<input checked="" type="checkbox"/> Sales Item	
Item Group	Items	<input checked="" type="checkbox"/> Purchasing Item	
UoM Group	Manual	Bar Code	
Price List	Price List 01	Unit Price	Primary Curre...
<input type="button" value="General"/> <input type="button" value="Purchasing Data"/> <input type="button" value="Sales Data"/> <input type="button" value="Inventory Data"/> <input type="button" value="Planning Data"/> <input type="button" value="Production Data"/> <input type="button" value="Properties"/> <input type="button" value="Remarks"/> <input type="button" value="Attachments"/>			
<input checked="" type="checkbox"/> Tax Liable <input type="checkbox"/> Do Not Apply Discount Groups Manufacturer: - No Manufacturer - Additional Identifier: Shipping Type: <u>Serial and Batch Numbers</u> Manage Item by: None			
<input checked="" type="radio"/> Active From: _____ To: _____ Remarks: _____ <input type="radio"/> Inactive <input type="radio"/> Advanced			
Country/Region of Origin: USA Standard Item Identification: 0471-70 Commodity Classification: 02			
<input type="button" value="OK"/> <input type="button" value="Cancel"/>			

Product Code Mapping

Various options are provided within this integration for Product Code Mapping.

Navigate to the TR Configuration menu. From the Main Menu, go to **Administration> Setup> TR Configuration > Other Settings> Product Code**.

Here you will select which field on the Item Master Data should be mapped to the Product Code field for tax determination.



There are four options to map the product code as follows:

Field	Description
Item Code	This is the item code of the material.
Item group	An item group also can be mapped as product code
Standard Item Identification	Items standard identification also can be set as product code.
Item User Defined field	User can also use UDF to determine the product code.

Item Master Data

General

Product Code: L00024

1

2

3

4

Freight and Delivery Costs

Within the integration with ONESOURCE Determination, tax determination is supported for freight lines entered within sales or purchase documents in SAP Business One. Freight charges can be added at either the document level or the line level, providing flexibility in capturing freight-related expenses.

To add freight charges at the document level:

1. Open the sales or purchase document (e.g., sales order, sales invoice, purchase order, etc.) in SAP Business One.
2. Locate the freight-related field or section within the document header, which allows you to enter the freight charges.
3. Enter the appropriate freight amount or percentage in the designated field.
4. Save the document. The integration will consider the freight charges entered at the document level for tax determination.
5. To add freight charges at the line level:
6. Open the sales or purchase document (e.g., sales order, sales invoice, purchase order, etc.) in SAP Business One.
7. Navigate to the line-item section of the document.
8. Select the desired line item where you want to add freight charges.
9. Within the line item details, locate the field or column dedicated to capturing freight charges.
10. Enter the applicable freight amount or percentage for the specific line item.
11. Save the document. The integration will consider the freight charges entered at the line-item level for tax determination.

By supporting tax determination on freight lines, the integration enables accurate calculation and application of taxes on freight-related expenses within sales or purchase transactions. This ensures compliance with tax regulations and provides visibility into the tax implications of freight charges.

A/R Invoice

Customer	CUS0001
Name	Paris, FR
Contact Person	
Customer Ref. No.	
BP Currency	EUR

Contents Logistics Accounting Attachments

#	Item/Service Type	Item No.	Item Description	Quantity	Unit Price	Discount %	Tax Code	Total (LC)	Freight 1	Freight 1 (LC)	Freight 1 Tax ...	UoM Code	COGS Distr. Rule
1	ITM00001	ITM00001	Item 1	1	1,000.00000 EUR	0.00	ONA	1,000.00 EUR	Freight Charg.	100.00 EUR	ONA	EACH	
2						0.00	ONA						
									Freight Charges				
									TR_IVAT				
									TR_oVAT				
									Define New				

The following freight scenarios are explained below:

Freight at line level

When freight is entered at the line level, it is assessed based on the product code or commodity code sent with the line item.

If freight charges are applied to line items, the system will examine the product code or commodity code associated with the charges and calculate the applicable taxes based on predefined rules. Users will be able to view the tax details corresponding to each line item, providing clear visibility into how taxes are calculated.

Freight at header level

Freight charges or any other charges can be applied at document level, and be distributed based on distribution methods such as:

- Quantity
- Volume
- Weight
- Equally
- Row Total

In this solution, we also handle scenarios where taxes need to be calculated based on distributed values. If a distribution rule is selected, the respective tax will be calculated accordingly. However, if no distribution rule is chosen, the charges line items will be treated as separate line items for tax calculation purposes. The details of the tax calculation will be displayed in the Freight table.

To set up the product code mapping for freight, go to **Modules**> **Administration**> **Setup**> **General**> **Freight**.

Vendor Charged Tax and Postings

This integration now supports partial the Vendor Charged Tax Verification functionalities of ONE SOURCE Determination. This section explains the solution and related configuration to support VCT-V and related postings.

Vendor Charged Tax Processes

Refer to the Vendor Charged Tax documentation on the Thomson Reuters Help Centre for more information on the Vendor Charged Tax Verification functionalities of ONE SOURCE Determination.

1. Ship-From Address Selection for Purchase Process:

- In this solution, the ship-from address for the purchase process is determined using a User Defined Field (UDF) in the logistics tab of the Purchase order by selecting the address id from the Supplier master. If there are multiple addresses maintained for the Supplier Master, user will be able to select the appropriate address.

The screenshot shows the 'Business Partner Master Data' window. At the top, vendor details are listed: Code (SUP0001), Supplier (Supplier 1), Local Currency (-1,000.00), Name (Supplier 1), Group (Vendors), Account Balance (0.00), and Currency (All Currencies). Below this, a table shows Purchase Orders (-8,655.00). The window has tabs for General, Contact Persons, Addresses, Payment Terms, Payment Run, Accounting, Properties, Remarks, and Attachments. The Addresses tab is selected, showing a 'Pay To' section with 'Define New' and a 'Ship To' section with 'Ship From - Paris' selected. The 'Ship To' section contains fields for Address ID, Address Name 2, Address Name 3, Street / PO Box, Block, City (Paris), Zip Code, County, State, Country/Region (France), Federal Tax ID (FR09417760155), and Street No. A 'Set as Default' button is at the bottom. A 'Show Location in Web Browser' link is also present.

- By default, the system will automatically select the first ship-from address available for the vendor.
- If there are multiple ship-from addresses defined for a vendor, the user will need to manually select the appropriate address during the purchase process.

2. Vendor's Charge Tax (VCT) in A/P Invoice:

- Vendor's Charge Tax (VCT) is applicable only in A/P (Accounts Payable) invoices and the "Hold the Payment" accrual method is the only applicable option in VAT countries.
- If VCT is configured in the tax determination process, the system will validate the VCT amount and the calculated tax amount.
- If there is a difference between the VCT amount charged by the vendor and the calculated tax amount determined by ONESOURCE, the system will not allow the user to post the transaction.
- This ensures that the tax amounts are accurately calculated and aligned with the tax determination results.

ERP Tax Code Line-Item Wise Break up

There is an additional TAB is introduced in marketing documents (Quotation, order, invoice, and Return) called Tax Details. In this Tab system will show all the ERP tax code along with some more information against each line items. It will help user to easily identify the tax break up if there is multiple tax code is applied against a single line item.

Tax Details Info.

In the tax details tab the below mentioned details will be maintained. Once the tax call will be completed then system will automatically fill the tax details along with be below mentioned details.

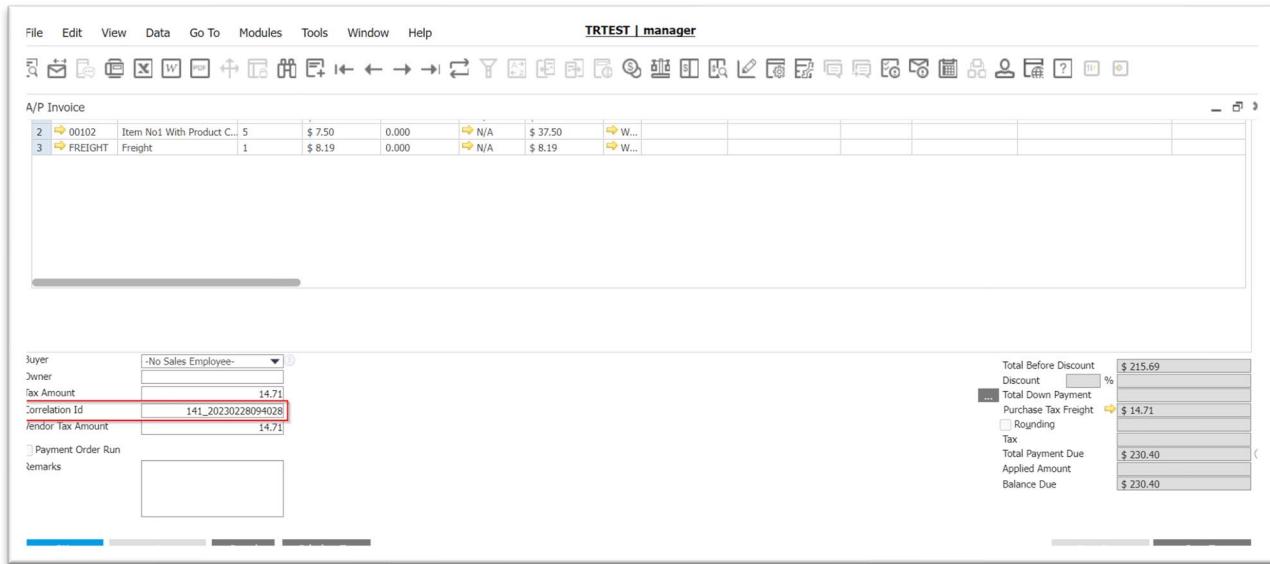
Field	Description
Line ID	This is the line items line id, which will represent the line items details
Item Code	Item code will help to identify the applicable tax against each item, there might be same item applied in multiple rows that's why the line id and item code will be applied
IDT Tax Code	IDT tax code is ERP tax code, which will be automatically get from the tax engine after each tax call
Base Amount	User can also use UDF to determine the product code.
Tax Rate	Tax rate will be fetched from tax rule engine
Tax Amount	As per the predefined tax rule system will give the tax amount.
Direction	There will be two types of direction as O and I.
Authority	There might be different type of tax authority in a transaction.

Invoicing and Commit Calls

The tax calculation process remains the same for all the documents, including sales quotation, sales order, A/R invoice, A/R credit note, purchase quotation, purchase order, A/P invoice, and A/P credit memo. However, during the financial posting of invoices or credit documents, a commit call is triggered to save the tax information to the TR Audit or report database.

The commit call ensures that the tax information is securely and accurately stored in the reporting database for further analysis and reporting purposes. Without the commit call, the tax information will not be saved in the reporting database, and it may not be available for generating reports or conducting analysis on tax-related data.

By triggering the commit call, the system ensures that the tax information is properly recorded and can be accessed when needed for auditing, compliance, or analysis purposes. This allows users to



have a comprehensive view of the tax-related transactions and enables them to generate reports or perform analysis based on the saved tax information in the reporting database.

Logging and Monitoring

Using the Unified Logging Feature

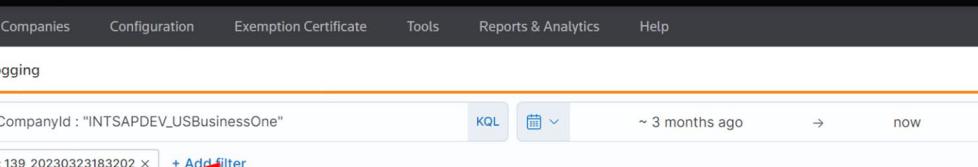
To access the logging feature in ONESOURCE Determination, follow these steps:

1. Login to ONESOURCE Determination.
2. Click on "Tools" in the menu.
3. Select "Tax Tools" from the dropdown menu.
4. Choose "Unified Logging" from the options.

To find the relevant logs, use the Correlation Id displayed on the SAP Business One screen. The Correlation Id is a unique identifier that helps you locate specific logs.

On the Unified Logging page in ONESOURCE Determination, you can find logs related to the SAP Business One Integration for Tax API. These logs contain information about the input and output data exchanged between ONESOURCE Determination and SAP Business One. Additionally, you can also access logs related to the Determination process itself. These logs provide details about the input data sent to ONESOURCE Determination for tax calculation and the corresponding output results.

By reviewing these logs, you can gain insights into the data flowing between ONESOURCE Determination and SAP Business One, as well as the tax determination results. This information can be valuable for troubleshooting, analysis, and auditing purposes.



The screenshot shows the 'Unified Logging' page. At the top, there is a navigation bar with links for 'Dashboard', 'Companies', 'Configuration', 'Exemption Certificate', 'Tools', 'Reports & Analytics', and 'Help'. Below the navigation bar, the page title is 'Unified Logging'. The main area contains a search bar with the query 'externalCompanyId : "INTSAPDEV_USBusinessOne"'. To the right of the search bar are buttons for 'KQL', 'Calendar', and time range selection ('~ 3 months ago' to 'now'). A 'Refresh' button is also present. Below the search bar, a filter section shows 'correlationId: 139_20230323183202' with an 'Add filter' button. A red arrow points to this 'Add filter' button. The main table displays log entries with columns: 'Time', 'content', 'loggingSystem', 'contentType', 'externalCompanyId', 'contentId', 'correlationId', and 'traceId'. The table shows two entries for March 24, 2023, at 00:02:03.000, and a third entry for March 24, 2023, at 00:02:03.000. The 'correlationId' and 'traceId' columns for these entries are highlighted with a red box, and the values '139_20230323183202' are visible.

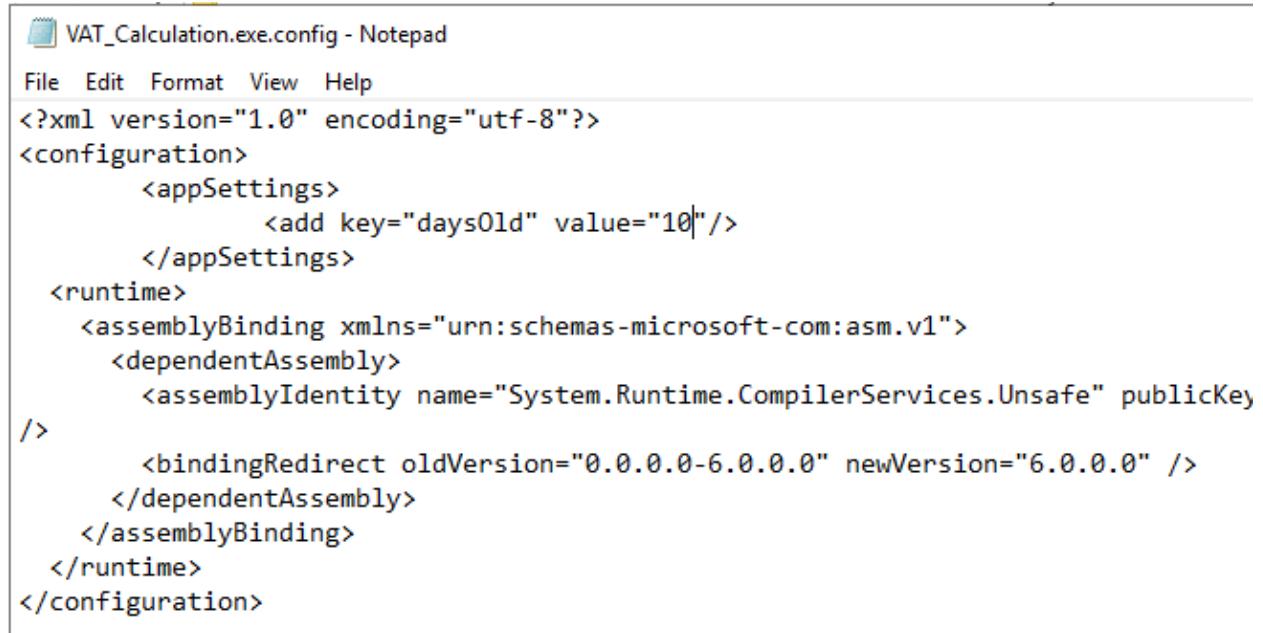
API Request Log file

In this integration whenever a tax call will happen, system will generate a tax call request log in the add-on folder with the respective information which will be consumed by the tax engine and based on the details system will calculate the tax and return the result. But if there is any information is missing in the document then system may show an error like "API error," it means there is no specific error was found by the tax engine but there is something wrong. So, user can check the request log and easily find out the missing information. User can find the log folder in below path

“C:\Program Files\SAP\SAP Business One>AddOns\Thomson Retures\TRC indirect Tax Utility – 1.2.0.0\X64Client\LogFiles”

This log file can be auto deleted as per user needs. By default there will be no delete applied, but if user wants system should keep log files for certain period say last 10 days, then user needs to apply the days in the application config files using the below path

“C:\Program Files\SAP\SAP Business One>AddOns\Thomson Retures\TRC indirect Tax Utility – 1.2.0.0\X64Client” and select the config file “VAT_Calculation.exe.config” and right click on the file and select “open with note pad” and change the “daysOld” value 0 to 10 (0 will be default).



```
VAT_Calculation.exe.config - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <appSettings>
        <add key="daysOld" value="10"/>
    </appSettings>
    <runtime>
        <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
            <dependentAssembly>
                <assemblyIdentity name="System.Runtime.CompilerServices.Unsafe" publicKey
/>
                <bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="6.0.0.0" />
            </dependentAssembly>
        </assemblyBinding>
    </runtime>
</configuration>
```

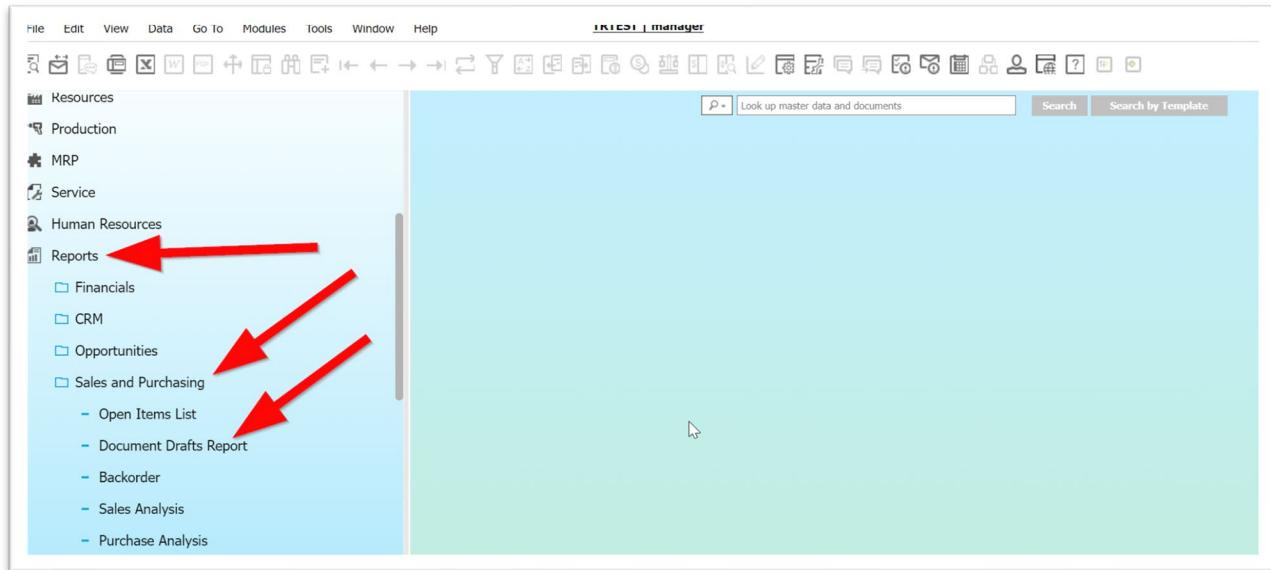
Please note that the specific steps and user interface may vary depending on the version and configuration of your SAP Business One system. It is always recommended to consult the official documentation or reach out to your system administrator for detailed guidance on performing these actions within your specific setup.

Monitoring Reports

To monitor invoices processed with tax calculated from ONESOURCE Determination, users can access the Document Draft Reports in the SAP Business One Reports module. Here is how:

1. Click on the "Reports" menu in SAP Business One.
2. Navigate to the "Sales and Purchasing" section.
3. Select the "Document Drafts Report" option.

By running this report, users will be able to view a list of document drafts, including invoices, which have been generated with tax calculations performed by ONESOURCE Determination. This report provides valuable information for tracking and reviewing invoices before they are finalized and posted.



To review the drafted reports with tax amounts in the SAP Business One Document Drafts Report, follow these steps:

1. Click on the "Document Drafts Report" option in the SAP Business One Reports menu.
2. In the report parameters or selection screen, select the functional area for which you want to review the draft reports. This could be either sales or purchasing, depending on your requirements.

By selecting the functional area, the Document Drafts Report will filter and display the relevant draft reports for the chosen area, including the tax amounts calculated by ONESOURCE Determination. This allows users to review the draft documents, verify the tax calculations, and make any necessary adjustments before finalizing the invoices or purchase orders.

Document Drafts Report - Selection Criteria

User: manager Open Only

Date

Sales - A/R

<input checked="" type="checkbox"/> Sales Quotations
<input checked="" type="checkbox"/> Sales Orders
<input checked="" type="checkbox"/> Deliveries
<input checked="" type="checkbox"/> Return Request
<input checked="" type="checkbox"/> Returns
<input checked="" type="checkbox"/> A/R Down Payment
<input checked="" type="checkbox"/> A/R Invoices
<input checked="" type="checkbox"/> A/R Credit Memos

Purchasing - A/P

<input checked="" type="checkbox"/> Purchase Request
<input checked="" type="checkbox"/> Purchase Quotation
<input checked="" type="checkbox"/> Purchase Orders
<input checked="" type="checkbox"/> Goods Receipt PO
<input checked="" type="checkbox"/> Goods Return Request
<input checked="" type="checkbox"/> Goods Return
<input checked="" type="checkbox"/> A/P Down Payment
<input checked="" type="checkbox"/> A/P Invoices
<input checked="" type="checkbox"/> A/P Credit Memos

Inventory

<input checked="" type="checkbox"/> Goods Receipt
<input checked="" type="checkbox"/> Goods Issue
<input checked="" type="checkbox"/> Inventory Transfer Request
<input checked="" type="checkbox"/> Inventory Transfers

Inventory Counting Transactions

<input checked="" type="checkbox"/> Inventory Counting
<input checked="" type="checkbox"/> Inventory Opening Balances
<input checked="" type="checkbox"/> Inventory Posting

Click on OK button to see all drafts report with tax amount.

Document Draft

Draft No	Document	Document No.	Posting Date	Total	Total Tax	Vendor Tax Amo
3	A/P Invoices	➡ 32	01/16/23	\$ 12,990.00	990.00	800.00
5	A/P Invoices	➡ 52	01/25/23	\$ 12,500.00	866.25	700.00
7	A/P Invoices	➡ 70	02/13/23	\$ 14,072.50	1,072.50	500.00
8	A/P Invoices	➡ 72	02/15/23	\$ 12,990.00	990.00	600.00
9	A/P Invoices	➡ 73	02/21/23	\$ 114.10	9.10	0.00

Data Mapping

Sales Process

Request Payload Mapping Fields

ONESOURCE REST API Fields	Business ONE Fields	Transformation/ Description
Header.externalCompanyId	U_INTID	When the user clicks on the 'Calculate Tax' button in the SAP document, the system retrieves the external company ID from the TR config file. Subsequently, it sends this ID, along with the secret key, to the REST API for validation. Upon successful validation, a token is generated and verified, enabling further processing.
Header.companyRole		if the transaction type is Sales (Objtype in (13,14,17,19)) then CompanyRole="S" and when transaction type is Purchase (ObjType in (22,23,18,19)) then CompanyRole='B'
Documents.Address.type	OINV.ShiToCode	Where Header.adderssType='ST' set Type= 'shipTo'
Documents.Address.country	OINV.CountryS	Where Header.adderssType='ST'
Documents.Address.region	OINV.StateS	Where Header.adderssType='ST'
Documents.Address.City	OINV.CityS	Where Header.adderssType='ST'
Documents.Address.county	OINV.CountyS	Where Header.adderssType='ST'
Documents.Address.postcode	OINV.ZipCodeS	Where Header.adderssType='ST'
Documents.Address.geocode	OINV.GlbLocNumS	Where Header.adderssType='ST'
Documents.Address.Type	OWHS.ShiToCode	Where Line.adderssType='SF' set Type= 'shipFrom'
Documents.Address.country	OWHS.CountryS	Where Line.addressType='SF'
Documents.Address.region	OWHS.StateS	Where Line.addressType='SF'
Documents.Address.City	OWHS.CityS	Where Line.addressType='SF'
Documents.Address.county	OWHS.CountyS	Where Line.addressType='SF'
Documents.Address.postcode	OWHS.ZipCodeS	Where Line.addressType='SF'
Documents.Address.geocode	OWHS.GlbLocNumS	Where Line.addressType='SF'
Documents.Currency	OINV.DocCur	
Documents.documentDate	OINV.DocDate	
Documents.Line.lineNumber	INV1.LineNum	
Documents.Line.productCode	INV1.StdItemId	

Documents.Line.commodityCode	INV1.CommClass	
Documents.Line.quantities	INV1.Quantity	
Documents.Line.taxableBasis	INV1.LineTotal	
Document.registrations.type		sellerRoll
Document.registrations.registrationNumber	OWHS.FedTaxId OADM.TaxIdNum, OADM.TaxIdNum2, OADM.TaxIdNum3,	sellerRegistration No
Document.registrations.type		buyerRoll
Document.registrations.registrationNumber	OCRD.VatIdUnCmp, OCRD.LicTradNum	buyerRegistration No
Document.deliveryTerm.type		incoterms
Document.deliveryTerms.term	OINV_TERM	As per standard

Response Payload Mapping Fields

ONESOURCE REST API Fields	Business ONE Fields	Transformation/ Description
Header.externalCompanyId	TR_CONF1.U_INTI D	External company id is obtained from TR configuration screens and sent to REST API along with secret id/ key, which will be validated for further processing
Header.companyRole		if the transaction type is Sales (Objtype in (13,14,17,19)) then CompanyRole="S" and when transaction type is Purchase (ObjType in (22,23,18,19)) then CompanyRole='B'
documents.companyName	TR_CONF1.CMNA ME	
documents.companyRole		if the transaction type is Sales (Objtype in (13,14,17,19)) then CompanyRole="S" and when transaction type is Purchase (ObjType in (22,23,18,19)) then CompanyRole='B'
Documents.currencyCode	OINV.DocCur	
Documents.externalCompanyId	TR_CONF1.CMNA ME	
Documents.transactionDate	OINV.DocDate	
Documents.totalTaxAmount	OINV.U_TAXAMT	
documents.callingSystemNumber	TR_CONF1.U_INTI D	
documents.hostName	OADM.HostName	
documents.fiscalDate	OPCH.DocDate	
documents.documentNumber	OINV.DocNumber	

documents.uniqueDocumentNumber	TR_CONF1.U_INTD + OINV.DocNumber + companyRole + YEAR	
Documents.Line.lineNumber	INV1.LineNum	
Documents.Line.grossAmount	INV1.LineTotal	
Documents.Line.taxsummary.taxableBasis	INV1.LineTotal	
Documents.Line.taxsummary.nonTaxableBasis		As per commoditycode or product code
Documents.Line.taxsummary.exemptAmount		As per commoditycode or product code
Documents.Line.taxsummary.taxRate	INV1.U_R	As per effectiveZone
Documents.Line.taxsummary.effectiveTaxRate	INV1.U_R	As per effectiveZone
Documents.Line.transactionType	OINV.DocType	GS Default
Documents.Line.totalTaxAmount	OINV.U_TAXAMT	
Documents.Line.taxes.responseSummary		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.adminZoneLevel		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityType		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityCurrencyCode	OINV.DocCur	
Documents.Line.taxes.effectiveZoneLevel		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.erpTaxCode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.exemptAmount.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.exemptAmount.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.grossAmountauthorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.documentDescription		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.jurisdictionText		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.nonTaxableBasis.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.nonTaxableBasis.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxAmount.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxAmount.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxRate		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxRateCode		As per ship to and ship from Address and rule defined in TR Tax Engine

Documents.Line.taxes.taxableBasis.autho rityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableBasis.docu mentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableCountry		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.addressType		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityName		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityUuid		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.euTransaction		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.natureOfTax		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.ruleOrder		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxDeterminationD ate	OINV.DocDate	As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxPointDate	OINV.DocDate	As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxType		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableRegion		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableCounty		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableCity		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableGeocode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxablePostcode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.zoneName		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.zoneLevel		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.ZoneFipsCode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.quantities.amount	INV1.Quantity	
Documents.Line.quantities.uom	INV1.unitMsr	
Document.registrations.type		sellerRoll
Document.registrations.registrationNumbe r	OWHS.FedTaxId OADM.TaxIdNum, OADM.TaxIdNum2, OADM.TaxIdNum3,	sellerRegistration No
Document.registrations.type		buyerRoll
Document.registrations.registrationNumbe r	OCRD.VatIdUnCm p, OCRD.LicTradNum	buyerRegistration No
Document.deliveryTerm.type		incoterms
Document.deliveryTerms.term	OINV_TERM	As per standard

Purchasing Process

Request Payload Mapping Fields

ONESOURCE REST API Fields	Business ONE Fields	Transformation/ Description
Header.externalCompanyId	U_INTID	External company id is obtained from TR configuration screens and sent to REST API along with secret id/ key, which will be validated for further processing
Header.companyRole		if the transaction type is Purchase (ObjType in (20,22,540000006,18,19)) then CompanyRole='B'
Documents.Address.type	OPCH.ShiToCode	Where Header.adderssType='SF' set Type=shipTo
Documents.Address.country	OPCH.CountryS	Where Header.adderssType='SF'
Documents.Address.region	OPCH.StateS	Where Header.adderssType='SF'
Documents.Address.City	OPCH.CityS	Where Header.adderssType='SF'
Documents.Address.county	OPCH.CountyS	Where Header.adderssType='SF'
Documents.Address.postcode	OPCH.ZipCodeS	Where Header.adderssType='SF'
Documents.Address.geocode	OPCH.GlbLocNumS	Where Header.adderssType='SF'
Documents.Address.Type	OWHS.ShiToCode	Where Line.adderssType='ST' set Type=shipFrom
Documents.Address.country	OWHS.CountryS	Where Line.addressType='ST'
Documents.Address.region	OWHS.StateS	Where Line.addressType='ST'
Documents.Address.City	OWHS.CityS	Where Line.addressType='ST'
Documents.Address.county	OWHS.CountyS	Where Line.addressType='ST'
Documents.Address.postcode	OWHS.ZipCodeS	Where Line.addressType='ST'
Documents.Address.geocode	OWHS.GlbLocNumS	Where Line.addressType='ST'
Documents.Currency	OPCH.DocCur	
Documents.documentDate	OPCH.DocDate	
Documents.Line.lineNumber	PCH1.LineNum	
Documents.Line.productCode	PCH1.StdItemld	
Documents.Line.commodityCode	PCH1.CommClass	
Documents.Line.quantities	PCH1.Quantity	
Documents.Line.taxableBasis	PCH1.LineTotal	
Document.registrations.type		buyerRoll
Document.registrations.registrationNumber	OWHS.FedTaxId OADM.TaxIdNum, OADM.TaxIdNum2, OADM.TaxIdNum3,	BuyerRegistration No

Document.registrations.type		sellRoll
Document.registrations.registrationNumber	OCRD.VatIdUnCmp, OCRD.LicTradNum	sellRegistration No
Document.deliveryTerm.type		incoterms
Document.deliveryTerms.term	OPCH_TERM	As per standard

Response Payload Mapping Fields

ONESOURCE REST API Fields	Business ONE Fields	Transformation/ Description
Header.externalCompanyId	TR_CONF1.U_INTID	External company id is obtained from TR configuration screens and sent to REST API along with secret id/ key, which will be validated for further processing
Header.companyRole		if the transaction type is Purchase (ObjType in (20,22,540000006,18,19)) then CompanyRole='B'
documents.companyName	TR_CONF1.CMNAME	
documents.companyRole		if the transaction type is Purchase (ObjType in (20,22,540000006,18,19)) then CompanyRole='B'
Documents.currencyCode	OPCH.DocCur	
Documents.externalCompanyId	TR_CONF1.CMNAME	
Documents.transactionDate	OPCH.DocDate	
Documents.totalTaxAmount	OPCH.U_TAXAMT	
documents.callingSystemNumber	TR_CONF1.U_INTID	
documents.hostName	OADM.HostName	
documents.fiscalDate	OPCH.DocDate	
documents.documentNumber	OPCH.DocNumber	
documents.uniqueDocumentNumber	TR_CONF1.U_INTID + OPCH.DocNumber + companyRole + YEAR	
Documents.Line.lineNumber	PCH1.LineNum	
Documents.Line.grossAmount	PCH1.LineTotal	
Documents.Line.taxsummary.taxableBasis	PCH1.LineTotal	
Documents.Line.taxsummary.nonTaxableBasis		As per commoditycode or product code
Documents.Line.taxsummary.exportAmount		As per commoditycode or product code
Documents.Line.taxsummary.taxRate	PCH1.U_R	As per effectiveZone
Documents.Line.taxsummary.effectiveTaxRate	PCH1.U_R	As per effectiveZone

Documents.Line.transactionType	OPCH.DocType	Defaulted to GS
Documents.Line.totalTaxAmount	OPCH.U_TAXAMT	
Documents.Line.taxes.responseSummary		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.adminZoneLevel		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityType		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityCurrencyCode	OPCH.DocCur	
Documents.Line.taxes.effectiveZoneLevel		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.erpTaxCode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.exemptAmount.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.exemptAmount.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.grossAmount.untaxableAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.documentDescription		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.jurisdictionText		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.nonTaxableBasis.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.nonTaxableBasis.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxAmount.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxAmount.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxRate		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxRateCode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableBasis.authorityAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableBasis.documentAmount		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableCountry		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.addressType		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityName		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.authorityUid		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.euTransaction		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.natureOfTax		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.ruleOrder		As per ship to and ship from Address and rule defined in TR Tax Engine

Documents.Line.taxes.taxDeterminationDate	OPCH.DocDate	As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxPointDate	OPCH.DocDate	As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxType		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableRegion		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableCountry		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableCity		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxableGeocode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.taxablePostcode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.zoneName		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.zoneLevel		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.taxes.ZoneFipsCode		As per ship to and ship from Address and rule defined in TR Tax Engine
Documents.Line.quantities.amount	PCH1.Quantity	
Documents.Line.quantities.uom	PCH1.unitMsr	
Document.registrations.type		buyerRoll
Document.registrations.registrationNumber	OWHS.FedTaxId OADM.TaxIdNum, OADM.TaxIdNum2, OADM.TaxIdNum3,	BuyerRegistration No
Document.registrations.type		sellRoll
Document.registrations.registrationNumber	OCRD.VatIdUnCmp, OCRD.LicTradNum	sellRegistration No
Document.deliveryTerm.type		incoterms
Document.deliveryTerms.term	OPCH_TERM	As per standard

Sample Transaction (Sales)

In this section, we will walk through a sample transaction from Sales Quotation to A/R Invoice process (Order-to-Cash - O2C) using the SAP Business One integration with ONESOURCE Determination. This solution covers various stages of the sales process, including Sales Quotation, Sales Order, A/R Invoice, Invoice cancellation, and Credit Note.

Throughout this Order to Cash process, the integration with ONESOURCE Determination ensures accurate tax calculations based on the jurisdiction and tax rules. The tax amounts are automatically determined and applied to the respective documents, providing compliance and accuracy in tax calculation.

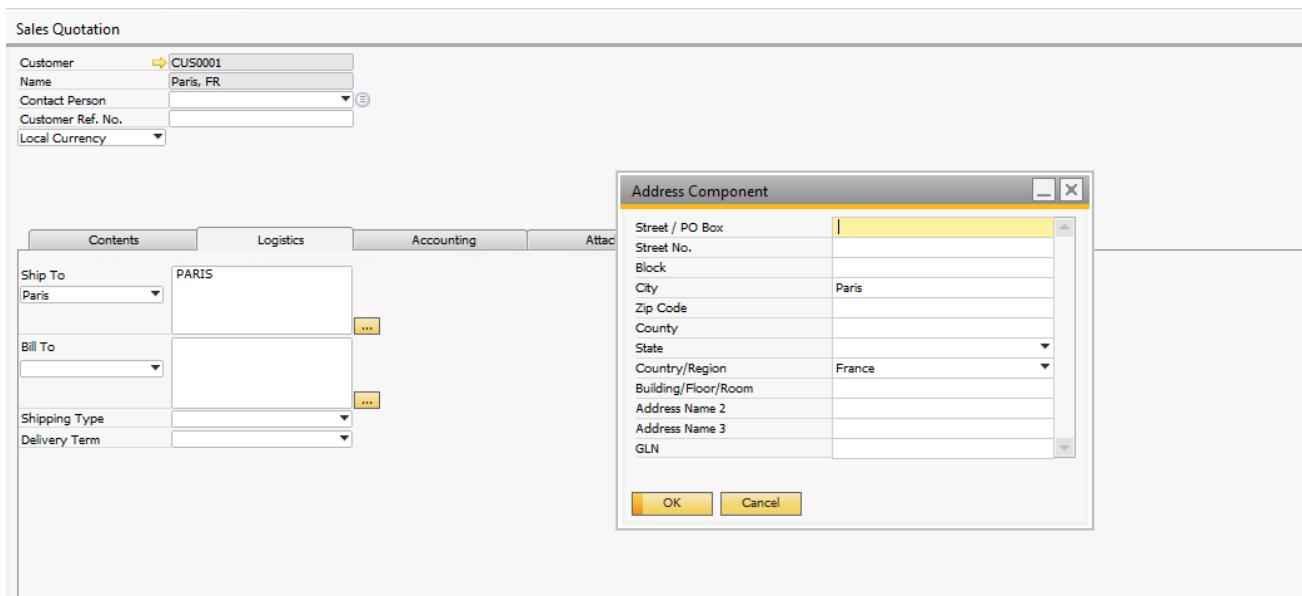
Sales Quotation

Start with creating a Sales Quotation: Enter the relevant details such as customer information, items, quantities, prices, and any applicable discounts. Once the Quotation is prepared, you can save it for further processing.

In this example, we will use a customer with a ship-to address as follows:

- Country: FR
- State:
- City: FR
- Buyer Registration No: FR09417760155

Please note that this is a sample address used for demonstration purposes, and you should enter the actual customer's ship-to address when performing the transaction in your SAP Business One system.



The ship-from location for this transaction is as follows:

- Country: FR
- City:
- Seller Registration: FR801161988B01

Please ensure that you enter the accurate ship-from location details based on your specific scenario in SAP Business One.

Sales Quotation

Customer: CUS0001
Name: Paris, FR
Contact Person:
Customer Ref. No.
Local Currency

Contents		Logistics		Accounting		Alt
Item/Service Type	Item					
#	Item No.	Item Description	Quantity	Unit Price	Discount %	Tax
1	ITM00001	Item 1	1	1,000.00000 EUR	0.00	N/A
2					0.00	ON

Sales Employee: -No Sales Employee-

Warehouses-(Default) - Setup

Warehouse Code: 01 Warehouse Name: Paris

General Accounting

Inactive Drgp-Ship

Location:

Nettable

Consignment Business Partner:

Street/PO Box:
Street No.
Block
Building/Floor/Room
Zip Code
City: Paris
County
Country/Region: France
State
Federal Tax ID: FR801161988B01
GLN:
Tax Office:
Address Name 2:
Address Name 3:

Enable Bin Locations

[Show Location in Web B](#)

For the line item of the transaction:

- Product Code: ITM0001
- Commodity Code: [Please provide the commodity code if available]
- Quantity: 1
- UOM (Unit of Measure): Each
- Taxable Value (Line Total): 1000 EUR

Please note that the commodity code should be specified if applicable.

After saving the transaction, we can see that the tax amount applied is 200 EUR. This tax amount is calculated only on the product value and not on the freight charges. The reason for the exemption of tax on the freight charges is based on the rules configured within ONESOURCE Determination.

Additionally, the tax calculation correlation id for this transaction is - 149_20230809144251. This correlation id is used as a reference when analyzing logs and troubleshooting issues.

The screenshot shows the SAP Sales Quotation (Sales Order) interface. At the top, there are tabs for Contents, Logistics, Accounting, and Attachments. Below these, a table displays line items. The table has columns for Item/Service Type (Item), Item No. (ITM00001), Item Description (Item 1), Quantity (1), Unit Price (1,000.00000 EUR), Discount % (0.00), Tax Code (N/A), Total (LC) (1,000.00 EUR), Whse (01), UoM Code (EACH), COGS Distr. Rule, Country/Region of Origin, Blanket Agreement No., Allow Procrmt. Doc. (unchecked), VAT Rate (0.20), and VAT ... (with a small icon). Below the table, there are sections for Sales Employee, Owner, Tax Amount (200.00), and Correlation Id (149_20230809144251). At the bottom, a summary table shows Total Before Discount (1,000.00 EUR), Discount (0 %), Sales Tax & Freight (200.00 EUR), and Tax (0). The Total is listed as 1,200.00 EUR.

The tax amount for each line item will be updated at the line level, indicating the tax applied specifically to that item. Additionally, the tax amounts of all the line items will be summarized based on the applied tax authority zone levels. These summarized tax amounts will be saved in the "Sales Tax and Freight" table, offering a detailed breakdown of taxes categorized by tax direction types such as Output Value Added Tax (oVAT), and Input Value Added Tax (iVAT).

Sales Order

After creating the sales quotation, you can copy the document to a sales order. In the sales order, you will not make any changes to the values except for updating the delivery date. Simply click on the "Add" button to save the sales order. At this point, the system will send a tax calculation request to the TR Tax engine. Once the tax calculation is completed, the system will update the tax amounts for each line item, along with the correlation id, and save the document.

The tax amount for each line item will be updated at the line level, indicating the tax applied specifically to that item. Additionally, the tax amounts of all the line items will be summarized based on the applied tax authority zone levels. This summarized tax information will be saved in the "Sales Tax and Freight" table, providing a breakdown of taxes by tax authority levels. It is important to note that at this stage, no actual tax will be posted in SAP, as taxes are only applicable during the invoice stage.

Sales Invoice (A/R Invoice)

After copying the sales order to an A/R Invoice, click on the "Add" button to save the invoice. At this point, the system will once again send a tax calculation request to the TR Tax engine. Once the tax calculation is completed, the system will update the tax amounts for each line item, along with the correlation id, and save the document.

Once the A/R Invoice is posted, the system will send the tax details to the TR Audit Database for reporting, global compliance, reconciliation, and data analysis processes. This process is known as the "Commit call".

Similar to previous stages, the tax amount for each line item will be updated at the line level, reflecting the tax applied to each specific item. The tax amounts of all the line items will be summarized based on the applied tax authority levels, and this breakdown will be saved in the "Sales Tax and Freight" table. This provides a comprehensive view of the taxes applied, categorized by tax authority levels.

Sales Tax & Freight

Do Not Display Freight Charges with Zero Amount

#	Freight Name	Remarks	Tax Group	Tax %	Total Tax Amount	Distrib. Method	Net Amount	Base Document	Status	
1	TR_oVAT		ONA	0.00	0.00 EUR	None	200.00 EUR	230300022	C	
							200.00 EUR			

Sample Transaction (Purchase)

Purchase Quotation

Here we have taken a Vendor called "V002" with its ship from address as

- Country – FR
- City – Paris
- Seller Registration - FR09417760155

Purchase Quotation

Vendor	SUP00001
Name	Supplier 1
Contact Person	Supplier 1
Vendor Ref. No.	
Local Currency	
Group No.	23PQG 230600005

Business Partner Master Data

Code	Supplier	SUP00001	Vendor	
Name	Supplier 1		Account Balance	Local Currency
Foreign Name			Goods Receipt POs	-1,000.00
Group	Vendors		Purchase Orders	0.00
Currency	All Currencies			-8,655.00
Federal Tax ID	FR09417760155			

Contents

Item/Service Type	Item	Required Date	
#	Item No.	Item Description	Required Date
1	ITM00001	Item 1	30.08.2023

Logistics

Pay To	Ship To	
Define New	Address ID	
Ship To	Address Name 2	
Ship From - Paris	Address Name 3	
Define New	Street / PO Box	
	Block	
	City	Paris
	Zip Code	
	County	
	State	
	Country/Region	France
	Federal Tax ID	FR09417760155
	Street No.	

Show Location in Web Browser

Set as Default

Buyer

Owner

Tax Amount

Correlation Id

Status

Posting Date

Valid Until

Document Date

Required Date

Summary Type

Blanket Agreement No.

VAT Rate

VAT ...

Total Before Discount

Discount

Purchase Tax & Freight

Rounding

Tax

The ship To Location is.

- Country – FR
- City – Paris
- Buyer Registration: FR801161988B01

Warehouses-(Default) - Setup

Warehouse Code	01	Warehouse Name	Paris
<input type="button" value="General"/>		<input type="button" value="Accounting"/>	
<input type="checkbox"/> Inactive		<input type="checkbox"/> Drop-Ship	
Location	<input type="button" value=""/>		
Consignment Business Partner	<input type="button" value=""/>		
Street/PO Box	<input type="button" value=""/>		
Street No.	<input type="button" value=""/>		
Block	<input type="button" value=""/>		
Building/Floor/Room	<input type="button" value=""/>		
Zip Code	<input type="button" value=""/>		
City	Paris		
County	<input type="button" value=""/>		
Country/Region	France		
State	<input type="button" value=""/>		
Federal Tax ID	FR801161988B01		
GLN	<input type="button" value=""/>		
Tax Office	<input type="button" value=""/>		
Address Name 2	<input type="button" value=""/>		
Address Name 3	<input type="button" value=""/>		

Line Items

- Product Code – ITM0001
- Commodity Code
- Quoted Quantity – 1
- UOM – Each
- Unit Price – 1000 EUR
- Taxable Value (Line Total) – 1000 EUR

Purchase Quotation

Vendor	SUP0001	No.	23PQ	230500005
Name	Supplier 1	Status	Closed	
Contact Person		Posting Date	30.08.2023	
Vendor Ref. No.		Valid Until	30.08.2023	
Local Currency		Document Date	30.08.2023	
Group No.	23PQG	Required Date	30.08.2023	

Contents Logistics Accounting Attachments

Item/Service Type		Item	Summary Type		No Summary		
#	Item No.	Item Descript...	Required Date	Quoted Date	Required Qty.	Quoted Qty.	Unit Price
1	ITM00001	Item 1	30.08.2023	30.08.2023	1	1	1,000.00000 EUR

Buyer: -No Sales Employee- Total Before Discount: 1,000.00 EUR
 Owner: Discount: %
 Tax Amount: 200.00 Purchase Tax & Freight: 200.00 EUR
 Correlation Id: 540000988_20230830204711 Rounding:
 Tax: Total Document Due: 1,200.00 EUR

After entering the details and clicking on the calculate button, or trying to add/ save the document, the system will calculate the tax. In this example, we found that the tax amount is EUR 200. After saving the transaction, we can see that the tax amount of EUR 200 is applied to the product value according to the TR Tax rule based on the ship-from and ship-to addresses.

The tax amount for each line item will be updated at the line level, and the total tax amount for all line items will be summarized based on the applied tax authority levels. This information, including the breakdown of taxes and freight charges, will be saved in the "Sales Tax and Freight" table for further reference and analysis.

Purchase Order

After copying the purchase quotation to a purchase order and saving it without any changes except for the delivery date, the system will send a tax calculation request to the TR Tax engine. Once the calculation is completed, the system will update the tax calculation for each line item and save the document with the assigned correlation ID.

The tax amount for each line item will be updated at the line level, and the total tax amount for all line items will be summarized based on the applied tax authority zone levels. This information, along with the breakdown of taxes and freight charges, will be saved in the "Sales Tax and Freight" table. At this stage, no actual tax will be posted in SAP as taxes are only applicable during invoice processing.

Purchase Order

Vendor	SUP00001	No.	23PO	230700010	- 0
Name	Supplier 1	Status	Closed		
Contact Person		Posting Date	30.08.2023		
Vendor Ref. No.		Delivery Date	30.08.2023		
Local Currency		Document Date	30.08.2023		

Contents Logistics Accounting Attachments

Item/Service Type		Item		Summary Type		No Summary	
#	Item No.	Item Description	Quantity	Unit Price	Discount %	Tax Code	Total (LC)
1	ITM00001	Item 1	1	100.00000 EUR	0.00	INA	1,000.00 EUR
<input style="float: right; margin-right: 10px;" type="button" value="Add"/> <input style="float: right; margin-right: 10px;" type="button" value="Delete"/> <input style="float: right; margin-right: 10px;" type="button" value="Edit"/> <input style="float: right; margin-right: 10px;" type="button" value="Print"/> <input style="float: right; margin-right: 10px;" type="button" value="Save"/> <input style="float: right; margin-right: 10px;" type="button" value="Cancel"/>							

Buyer: -No Sales Employee- Total Before Discount: 1,000.00 EUR

Owner: Discount: %

Tax Amount: 200.00 Purchase Tax & Freight: 200.00 EUR

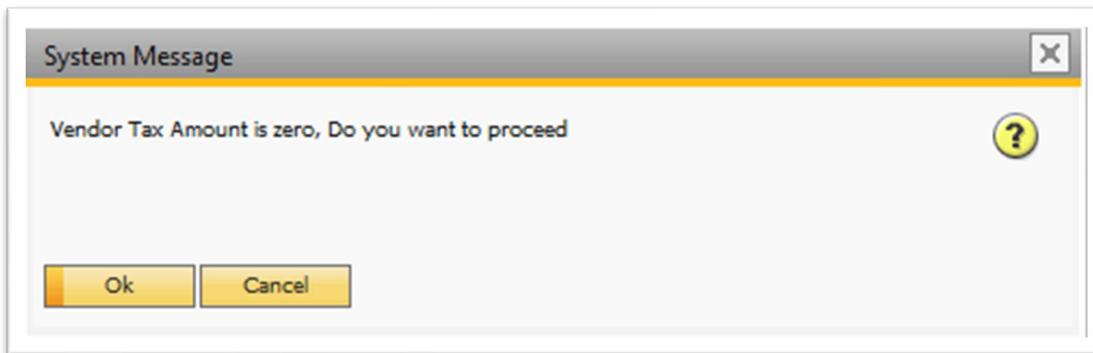
Correlation Id: 142_20230830204731 Rounding

Tax: Total Payment Due: 1,200.00 EUR

Purchase Invoice (A/P Invoice)

After copying the purchase order to an A/P invoice and saving it without any changes, except for clicking on the "Add" button, the system will perform several checks. Firstly, it will verify if the user has entered any Vendor Central Tax (VCT) amount. If no VCT amount is entered, the system will prompt the user for confirmation.

The purpose of this check is to ensure that the VCT amount is properly entered and considered for tax calculation. It helps prevent any errors or omissions in the VCT amount, ensuring accurate tax determination for the invoice.



If the user forgets to enter the Vendor Central Tax (VCT) amount, they need to click on the "Cancel" button. However, if there is no tax charged by the vendor, the user can click on "OK" to proceed. In this case, the system will send a tax calculation request to the ONESOURCE Determination. Once the calculation is completed, the system will update the tax calculations along with the correlation ID.

The VCT accrual method will be determined based on the VCT configuration and the given VCT amount. The accrual method can be one of the following:

- Hold Payment

If the accrual method is "Hold Payment," the system will not allow the user to post the transaction until they modify the details, or the system receives a different accrual method. In this scenario, the system will allow the user to save the document in Draft if desired, and they can use the draft document later.

After the A/P Invoice is posted, the system will send the tax details to the TR Audit Database for reporting, global compliance, reconciliation, and data analysis processes. This process is known as the "Commit call." At this stage, the actual tax amount is booked in the database, and the tax information will be saved in the TR audit database.

The tax amount for the line items will be updated at the line level, ensuring that each line reflects the appropriate tax calculation. Additionally, the tax amount for all line items will be summarized based on the applied tax authority zone levels. This summary will be saved in the "Purchase Tax and Freight" table, providing a breakdown of the tax amounts based on different tax authority levels.

A/P Invoice

Vendor	SUP00001	No.	23AP	230800003
Name	Supplier 1	Status	Closed	
Contact Person		Posting Date	30.08.2023	
Vendor Ref. No.		Due Date	30.08.2023	
Local Currency		Document Date	30.08.2023	

Contents Logistics Accounting Attachments

Item/Service Type		Summary Type						No Summary
#	Item No.	Item Descripti...	Quantity	Unit Price	Disc...	Tax Code	Total (LC)	
1	ITM00001	Item 1	1	1,000.00000 EUR	0.00	INA		
<input type="button" value="<"/> <input type="button" value="..."/> <input type="button" value=">"/>								

Buyer: -No Sales Employee- Total Before Discount: 1,000.00 EUR

Owner: Discount: %

Tax Amount: 200.00 Total Down Payment:

Correlation Id: 141_20230830204801 Purchase Tax & Freight: 200.00 EUR

Vendor Tax Amount: 0.00 Rounding:

After the A/P Invoice is posted, the system will create the necessary accounting entries for the transaction. The tax amount will be included in these accounting postings. Specifically, the tax amount will be recorded in a clearing account.

Journal Entry in A/P Invoice

Journal Entry

Series	Number	Posting Date	Due Date	Doc. Date	Remarks
Primary	30	30.08.2023	30.08.2023	30.08.2023	A/P Invoices - SUP0001
Origin	Origin No.	Trans. No.	Template Type	Template	Indicator
PU	230800003	30			
Trans. Code	Ref. 1	Ref. 2	Ref. 3		
	230800003				

R E
 A N N

Blanket Agreement

Contents **Attachments**

► Expand Editing Mode

#	G/L Acct/BP Code	G/L Acct/BP Name	Control Acct	Debit	Credit	Remarks Template	Tax Group	Receipt Num
1	SUP00001	Supplier 1	401100		1,200.00 EUR			
2	445620	TVA déductible sur immobilisation	445620	0.00 EUR			INA	
3	371000	Stock de marchandises	371000	1,000.00 EUR				
4	603700	Variation des stocks de marchandises	603700		1,000.00 EUR			
5	607100	achats de marchandises	607100	1,000.00 EUR				
6	445710	T.V.A. collectée	445710	200.00 EUR				

Relationship Map

```

graph TD
    subgraph Business_Partners [Business Partners]
        SUP00001[Supplier 1]
    end
    subgraph Purchase_Order [Purchase Order]
        230700010[230700010  
30.08.2023]
    end
    subgraph Purchase_Quotation [Purchase Quotation]
        230500005[230500005  
30.08.2023  
1,200.00 EUR]
    end
    subgraph AP_Invoice [A/P Invoice]
        230800003[230800003  
30.08.2023  
1,200.00 EUR]
    end
    subgraph AP_Credit_Memo [A/P Credit Memo]
        230900001[230900001  
30.08.2023  
1,200.00 EUR]
    end

    SUP00001 --> 230700010
    230700010 --> 230500005
    230500005 --> 230800003
    230800003 --> 230900001
  
```

Marketing Document: Document Tree

Referenced Documents

OK Go Back Go Forward