

# ONESOURCE™ INTEGRATION FOR MICROSOFT DYNAMICS AX

## INSTALLATION AND USER GUIDE

2.0.1.X

Document Version 1

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# TABLE OF CONTENTS

<b>Introduction</b>	<b>1</b>
Who Should Read This Guide?	1
System Overview	1
Supported Business Processes	2
Unsupported Business Processes	3
Resources	3
Style Conventions	5
<b>Prerequisites</b>	<b>7</b>
Review System Requirements	7
Verify AX General Ledger Parameters Tax Settings	7
Verify Address Master Data	10
Gather Administrative Information	10
Download the Integration	14
<b>Installing the Integration</b>	<b>17</b>
Install IDT AX Help	17
Install the IDT Model	18
Update System	20
Run the IDT Setup Wizard	22
Post-Installation Tasks	26
<b>Configuring the Integration</b>	<b>27</b>
Assign Security Access	27
Load the ONESOURCE IDT Product Tax Codes	28
Configure the IDT Parameters	29
Custom Attributes Setup	32
Offline Support Setup	35
Configure IDT Sales Tax Codes	37
Configure the IDT Ledger Posting Group	38
Assign the IDT Sales Tax Group to Customers	42
Assign the IDT Sales Tax Group to Vendors	43
Assign the IDT Item Sales Tax Group and IDT Product Tax Code to Items	44
Method 1: ONESOURCE IDT Item Taxability Form	44
Method 2: Released Product Details Form	45

Set up Posting Profiles .....	47
Additional Configuration .....	48
Configure Dynamics AX to Use Determination to Calculate Tax on Charges .....	49
Configure Dynamics AX to Use Determination to Calculate Tax for Sales Categories .....	50
Configure Dynamics AX to Use Determination to Calculate Tax for Purchasing Categories .....	51
Configure Dynamics AX to Use Determination to Calculate Tax for Project On-Account Transactions .....	52
Set Point of Title Transfer for Delivery Terms .....	53
Set up Tax Registrations .....	55
Configure Currency Conversions .....	57
Recoverability for Purchases .....	57
<b>Calculating Sales Tax .....</b>	<b>61</b>
Addresses Used for Tax Calculation .....	61
Sales Documents .....	62
Temporary Sales Tax Transactions .....	64
Entering Credit Memos .....	64
Entering Return Orders .....	65
Tax Calculation on Header and Line Charges .....	65
Viewing Invoice Descriptions and Jurisdictional Text for Customer Invoices .....	66
Free Text Invoices .....	66
Viewing Invoice Citations for Free Text Invoices .....	67
Project Invoices .....	67
Specifying a Project to Use ONESOURCE to Calculate Tax on Related Transactions .....	68
Specifying ONESOURCE to Calculate Tax on a Project Sales Order .....	69
Specifying ONESOURCE to Calculate Tax on a Project On-account and Customer Advance Transaction .....	70
Viewing Invoice Descriptions and Jurisdictional Text for Project Invoices .....	70
<b>Calculating Use Tax .....</b>	<b>73</b>
Addresses Used for Tax Calculation .....	73
Purchase Orders and Vendor Invoices .....	74
Capture Vendor Charged Tax on Vendor Invoices .....	75
VAT Variances on Vendor Invoices .....	77
Purchase Requisitions .....	79
Request for Quotations .....	80
Vendor Invoice Journals .....	81
Vendor Invoice Pool Excluding Posting Details .....	82

Invoice Registers .....	82
<b>Tax Calculation Errors .....</b>	<b>85</b>
Recalculate Tax on Transactions with Calculation Errors .....	86
<b>Using The Address Validation Service .....</b>	<b>89</b>
Trigger Address Validation .....	89
Validate an Address .....	89
<b>Appendix A - Logging .....</b>	<b>93</b>
Configure Logging Options .....	94
<b>Appendix B - ONESOURCE-Specific Tax Groups and Tax Codes .....</b>	<b>97</b>
Sales Tax Groups .....	97
Sales Tax Codes .....	98
Tax Code Qualifiers .....	101
IDT Sales Tax Codes .....	102
Reverse Charges .....	102
Reverse Charge on Purchase Transactions .....	103
Reverse Charge on Sales Transactions .....	104
<b>Appendix C - AX Sales and Use Tax Reconciliation Reporting .....</b>	<b>105</b>
Export the IDT ONESOURCE Reconciliation Extract to a .csv File .....	105
SQL Server Reporting Services Configuration (Optional) .....	108
<b>Appendix D - List of Overlayered Objects in AX2012 R3 CU12 .....</b>	<b>111</b>
Tables .....	111
Maps .....	111
Classes .....	111
Forms .....	113
Menus .....	113
<b>Appendix E - Custom Attributes Reference .....</b>	<b>115</b>



# INTRODUCTION

The ONESOURCE Indirect Tax Integration for Microsoft Dynamics AX enables seamless Order to Cash and Procure to Pay tax calculations between Dynamics AX and the Thomson Reuters tax service. You no longer need to maintain Dynamics AX tax codes, research tax laws, and enter tax rates. Tax-relevant transactions make a web service call to ONESOURCE Indirect Tax Determination, calculate tax, and then return the tax details back to Dynamics AX to be stored in the transaction record. Tax liabilities are stored in the ONESOURCE Indirect Tax databases for downstream reporting and compliance.

## WHO SHOULD READ THIS GUIDE?

This guide is intended for use by ONESOURCE customers and partners who are implementing the Integration for Microsoft Dynamics AX. It covers preparing for installation, performing the installation, and the post-installation configuration steps. Users of Dynamics AX will find supported business processes and information on usage and maintenance of the integration.

Installation and configuration requires the coordination of people in various roles. If you are responsible for overseeing the installation, make this guide available to the following contributors:

- Application server administrator
- IT administrator
- Tax professional

## SYSTEM OVERVIEW

The ONESOURCE Indirect Tax Integration for Microsoft Dynamics AX works within the framework of the client/server architecture of Dynamics AX. Calls to ONESOURCE Indirect Tax Determination originate directly from the server.

## SUPPORTED BUSINESS PROCESSES

Tax calculation is supported for the following business processes:

- Credit Notes
- Free Text Invoices
- Invoice Pool Excluding Details
- Invoice Register
- Project Accounting Invoices (limited support)
- Purchase Orders
- Quotations
- Requisitions
- Return Orders
- Sales Invoices
- Sales Journals
- Sales Orders
- Sales Quotes
- Shipment Orders
- Vendor Invoices
- Vendor Invoice Journals



All address updates are supported by the address validation service.



The Sales Quotes and Sales Orders as accessed from the CRM module are also supported with this integration.



## UNSUPPORTED BUSINESS PROCESSES

Tax calculation is not supported for the following business processes:

- Intercompany Journals
- Journal Vouchers
- Project Invoices
- Recurring Free Text Invoices
- Sales Basket Orders
- Service Orders
- Subscriptions
- Transfer Orders



Localizations in AX are not specifically supported with this integration. It is the customer's responsibility to ensure this integration is compatible with any localizations activated for use.

## RESOURCES

If you have questions that are not answered by this guide, you can get help from these resources:

ONESOURCE RESOURCES	
Resource	Description
ONESOURCE Customer Center <a href="https://tax.thomsonreuters.com/support/onesource/customer-center/">https://tax.thomsonreuters.com/support/onesource/customer-center/</a>	Search for answers in the Knowledge Base, enter product support tickets, and track support ticket history for you and your organization.
Indirect Tax Customer Center <a href="https://customercenter.sabrix.com/">https://customercenter.sabrix.com/</a>	Download ONESOURCE Indirect Tax software.

ONESOURCE RESOURCES	
Resource	Description
Other ONESOURCE Indirect Tax Products and Services <a href="https://tax.thomsonreuters.com/products/brands/onesource/indirect-tax/">https://tax.thomsonreuters.com/products/brands/onesource/indirect-tax/</a>	Browse descriptions of other ONESOURCE Indirect Tax products and services.
Documentation Feedback <a href="mailto:onesource.indirect.tax.fb@thomsonreuters.com">onesource.indirect.tax.fb@thomsonreuters.com</a>	Send feedback about ONESOURCE Indirect Tax documentation.

# STYLE CONVENTIONS

We use the following special formatting throughout this guide:

**Bold** text indicates most user interface elements, such as:

- Data you are expected to enter, such as in a text field
- Pages, buttons, tabs, and field names
- Dialog boxes, drop-down lists, selections within lists, and check box titles
- Windows
- Menu items

*Italic* text indicates the following:

- File and folder names
- Java classes, PL/SQL objects and executable files
- Document titles

CAPITAL text indicates keyboard commands, such as ENTER, or database components.

`Courier` text indicates command-line input/output.

<brackets> indicate user entry. For example, <host> indicates you should replace the text and angle brackets with your server name.

Book titles are shown in italics and sections within a book are in quotation marks, such as “Starting the Installation” in the *ONESOURCE Indirect Tax Integration for Microsoft Dynamics AX Installation Guide*.



This pencil symbol indicates suggestions or additional information.



This warning symbol indicates important text that you should review before proceeding.

☐ This carriage return symbol indicates that a single line of code is divided into multiple lines so you can read it. If you copy and paste code with these symbols, be sure to keep the code before and after the carriage return on the same line.

```
1  /* Code snippets have numbered lines with a gray background.  
   */  
2  /* Be cautious if you copy lines from the code snippets-t  
   he line numbers are included! */
```

# PREREQUISITES

Review the following sections and complete the listed tasks before installing the Integration for Microsoft Dynamics AX.

Review System Requirements .....	7
Verify AX General Ledger Parameters Tax Settings .....	7
Verify Address Master Data .....	10
Gather Administrative Information .....	10
Download the Integration .....	14

## REVIEW SYSTEM REQUIREMENTS

The integration requires one of the following:

- Microsoft Dynamics AX 2012 R3 CU12 on MS-SQL 2012
- Microsoft Dynamics AX 2012 R3 CU12 on MS-SQL 2014
- Microsoft Dynamics AX 2012 R3 CU13 on MS-SQL 2012
- Microsoft Dynamics AX 2012 R3 CU13 on MS-SQL 2014

## VERIFY AX GENERAL LEDGER PARAMETERS TAX SETTINGS

Before proceeding with your installation, review the **Sales tax** information on the **General ledger parameters** form. The integration requires that some of the parameters on this form be set to specific values.

Go to **General Ledger > Setup > General ledger parameters** to open the form, and then verify that your settings for each of the required parameters match those in the following table:

REQUIRED GENERAL LEDGER PARAMETERS	
Parameter	Value
Calculation date type	Invoice date
Calculation method	Line

REQUIRED GENERAL LEDGER PARAMETERS	
Parameter	Value
Conditional sales tax	clear
Auto sales tax search	clear
Deduct cash discount before sales tax calculation	clear
Reverse sales tax on cash discount	clear
Cash discount is calculated on amount including sales tax	clear
Apply US sales tax rules	clear



Bundles are supported only to the extent that pricing is assigned at the top level (kit level), not at the line level.

~~The following image is an example of the desired settings:~~

The following image is an example of the desired settings:

The screenshot shows the 'General ledger parameters (1 - usmf)' window. The left sidebar contains a tree view with 'Ledger' expanded, showing 'Sales tax' as the selected item. The main area is titled 'Set up sales tax and sales tax group information' and is divided into two sections: 'General' and 'Tax options'.

**General**

Item sales tax group:	IDT
Calculation date type:	Invoice date
Legal entity for intercompany tax posting:	Destination
Calculation method:	Line
Amounts include sales tax:	<input checked="" type="checkbox"/>
Apply U.S. taxation rules:	<input type="checkbox"/>
Conditional sales tax:	<input type="checkbox"/>
Check sales tax groups:	None
Tax direction requirement:	<input type="checkbox"/>
Validate tax code:	<input type="checkbox"/>
Auto sales tax search:	<input type="checkbox"/>

**Tax options**

**Cash discount**

Reverse sales tax on cash discount:	<input type="checkbox"/>
Deduct cash discount before sales tax calculation:	<input type="checkbox"/>

**Customer cash discount**

Cash discount is calculated on amount including sales tax:	<input type="checkbox"/>
Mandatory item tax groups:	<input type="checkbox"/>

**Vendor cash discount**

Cash discount is calculated on amount including sales tax:	<input type="checkbox"/>
--	--------------------------

**Payment**

Sales tax on overpayment or underpayment:	<input type="checkbox"/>
---	--------------------------

**Invoice**

Sales tax amount per invoice line:	<input checked="" type="checkbox"/>
------------------------------------	-------------------------------------

**Special report**

Include corrections:	<input type="checkbox"/>
----------------------	--------------------------

## VERIFY ADDRESS MASTER DATA

Your tax results are most precise when your master data is accurate. We recommend you make use of our one-time address validation service to update your addresses prior to installation. Please contact Thomson Reuters Professional Services if you are interested in using this service.

ONESOURCE Indirect Tax Determination calculates tax results using address data from the following areas of Dynamics AX:

- Legal Entity Address
- Customer Address
- Warehouse and Site Address

## GATHER ADMINISTRATIVE INFORMATION

Before installing the integration, record your administrative information in the following tables:

INFORMATION REQUIRED FOR THE IDT SETUP WIZARD		
Item	Description	Your Value(s)
Settlement Period	The Dynamics AX settlement period for sales tax.  See Dynamics AX online help for more information.	
Default Ledger Posting Group	The Dynamics AX ledger posting groups are attached to individual sales tax codes, and the ledger posting groups determine the ledger accounts that the calculated sales taxes are posted to.  See Dynamics AX online help for more information.	



**INFORMATION REQUIRED FOR THE IDT SETUP WIZARD**

Item	Description	Your Value(s)
VAT Non-recoverable Ledger Posting Group	The Dynamics AX ledger posting group assigned to non-recoverable sales tax codes.	
Not Found Ledger Posting Group	The Dynamics AX ledger posting group assigned to sales tax codes that have not been configured in the system.	
Currency	The default currency used for tax calculation when one is not specified in the master data or transaction. Available values are <b>USD</b> or <b>CAD</b>	

**INFORMATION REQUIRED ON THE ONESOURCE IDT TAX PARAMETERS SCREEN**

Item	Description	Your Value(s)
ONESOURCE IDT URL	The URL for Determination, provided by the implementation team. You will be provided with two URLs. One for your UAT environment and a second URL for your production environment.	
ONESOURCE IDT Company ID	The unique identifier for your Determination company, provided by the implementation team.	
ONESOURCE IDT User Name	The user name for Determination, provided by the implementation team.	
ONESOURCE IDT Password	The password for Determination, provided by the implementation team.	

INFORMATION REQUIRED ON THE ONESOURCE IDT TAX PARAMETERS SCREEN		
Item	Description	Your Value(s)
ONESOURCE Address Validation Enabled	Selecting this option enables the ONESOURCE Address Validation service.	
ONESOURCE Address Validation URL	The URL for the ONESOURCE Address Validation Service, provided by the implementation team. You will be provided with two URLs. One for your UAT environment and a second URL for your production environment.	
ONESOURCE Address Validation Company ID	The unique identifier for your company, provided by the implementation team.	
ONESOURCE Address Validation User Name	The user name for the ONESOURCE Address Validation service, provided by the implementation team.	
ONESOURCE Address Validation Password	The password for the ONESOURCE Address Validation Service, provided by the implementation team.	
ONESOURCE Default Sell Item Product Tax Code	The default product tax code to use if no product tax code is assigned to the item when it is sold.	
ONESOURCE Default Sell Non-inventory Product Tax Code	The default product tax code to use if no product tax code is assigned to a non-item type transaction at the time of sale.	

INFORMATION REQUIRED ON THE ONESOURCE IDT TAX PARAMETERS SCREEN		
Item	Description	Your Value(s)
ONESOURCE Default Purchase Item Product Tax Code	The default product tax code to use if no product tax code is assigned to the item when it is purchased.	
ONESOURCE Default Purchase Non-item Product Tax Code	The default product tax code to use if no product tax code is assigned to a non-item type transaction at the time of purchase.	
ONESOURCE Default Currency	The default currency to apply to tax transactions. USD for a United State company and CAD for a Canadian company.	
Custom Attributes	Determine what, if any, custom attributes or data elements will be required to calculate taxes on sales or purchases. See <a href="#">Appendix E - Custom Attributes Reference (page 115)</a> for more information	
Vendor Invoice Hold When VAT is Manually Overridden	Select to automatically place vendor invoices on hold when the vendor-charged VAT differs from the ONESOURCE- calculated tax. This option utilizes the native AX 2012 vendor invoice hold functionality and you should consult the AX 2012 documentation to understand how to manage invoices placed on hold.	

### INFORMATION REQUIRED ON THE ONESOURCE IDT TAX PARAMETERS SCREEN

Item	Description	Your Value(s)
ONESOURCE Progress Bar	Selecting this option enables a progress bar during tax and address validation calls.	
Offline Support	Determine which offline support option you will use. See <a href="#">Offline Support Setup (page 35)</a> .	

### INFORMATION REQUIRED DURING THE MANUAL CONFIGURATION PROCESS

Item	Description	Your Value(s)
ONESOURCE Product Tax Codes	A list of the valid ONESOURCE IDT Product Tax Codes.	This is a .csv file provided by the implementation team.
ONESOURCE Commodity Codes	A list of commodity codes that correspond to products sold or purchased.	

## DOWNLOAD THE INTEGRATION

If you have not already done so, download the Integration for Microsoft Dynamics AX installation file.

### Download from ONESOURCE Customer Center

1. Open the Customer Center at <https://customercenter.sabrix.com/sabrixcc>.
2. Log on to the Customer Center by entering the user name and password assigned by Customer Support.
3. Locate the Integration for Microsoft Dynamics AX in the list of available products.
4. Select **None** for **Current Installed Version**.
5. Select **Download** for Integration for Microsoft Dynamics AX.
6. Save the file.

## Unzip the Installation File

After you receive the file containing the Integration for Microsoft Dynamics AX, unzip it to the server where it will be installed. The following files are included in the zip file:



- *IdtModel.axmodel*: The IDT model file for AX file
- *TR Logo.jpeg*: The Thomson Reuters logo file
- The IDT AX help files



# INSTALLING THE INTEGRATION

This section provides the information required to install the Integration for Microsoft Dynamics AX. Shut down the Dynamics AX service ("AOS") and complete the tasks in the following sections to install the integration:

Install IDT AX Help .....	17
Install the IDT Model .....	18
Update System .....	20
Run the IDT Setup Wizard .....	22
Post-Installation Tasks .....	26

-  Before beginning any of the installation tasks, you must shut down AOS or follow the shutdown process specific to your environment.
-  Default directory paths are provided in the sections below. The location of your files and directories may be different depending on your Dynamics AX installation.

## INSTALL IDT AX HELP

The installation process for IDT AX Help involves copying the .html files and editing your Dynamics AX help server configuration file.

### Copy Help Files to Help Server Directory

1. Locate the help server directory for your Dynamics AX installation. The default directory path is:  
`C:\inetpub\wwwroot\AXhelp\DynamicsAX6HelpServer\Content\`
2. Copy the IDT folder extracted from the provided compressed folder to the help server directory you just located.

### Edit the Help Server Configuration File

1. Locate the *server web.config* file for your Dynamics AX installation. The default directory path is:  
`C:\inetpub\wwwroot\AXhelp\DynamicsAX6HelpServer\web.config`
2. Open the file in a text editor.

3. Copy and paste the following line at the end of the **<publishers>** node:

```
1 <add publisherId="IDT" name="IDT" />
```



Remove the line numbers after you copy and paste.

## INSTALL THE IDT MODEL

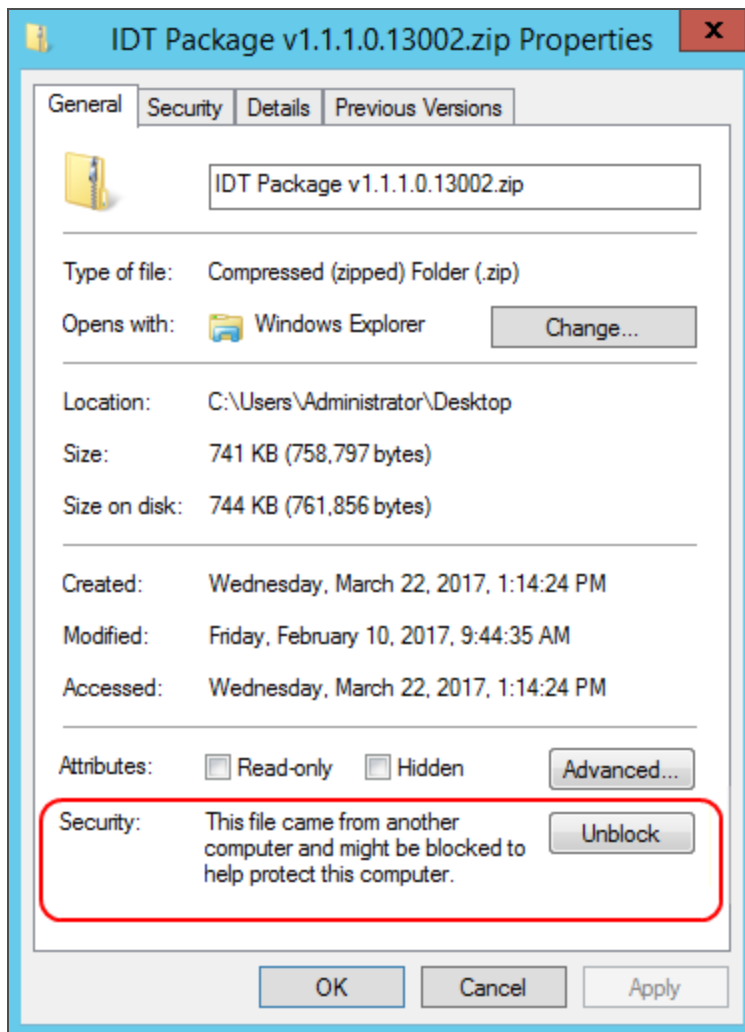
The IDT model for Dynamics AX must be installed by a Dynamics AX system administrator using the Dynamics AX Powershell Management console.



You must run the console as an administrator.



Before you proceed with the installation, we recommend that you check the file properties on the IDT Package ZIP file to confirm that it is not blocked or otherwise locked from access. The following image is an example of the file properties.



## Import and Install the IDT Model

The following sample command can be used to perform the import. Replace the values in bold with the values for your environment:

```
Install-AXModel -File "PathAndFileName" -Server "DatabaseServer" -Database "DatabaseName" -  
conflict:overwrite -details
```

## UPDATE SYSTEM

Once the model is installed, a Dynamics AX system administrator must complete the following tasks:

### Multi-Threaded “Fast” Compile



This will take between 30 minutes and 2 hours, depending on your hardware.

1. Stop AOS **Microsoft Dynamics AX Object Server 6.3\$01-MicrosoftDynamicsAX**.
2. Open the **Microsoft Dynamics AX 2012 Management Shell**.
3. Go to the server *bin* directory. The standard path is:

*C:\Program Files\Microsoft Dynamics AX\60\Server\MicrosoftDynamicsAX\bin\*

4. Run the build command. The following sample command can be used to execute the compile. You may need to change the number shown in bold below to match your **AOS number**.

```
.\axbuild.exe xppcompileall /s=01
```

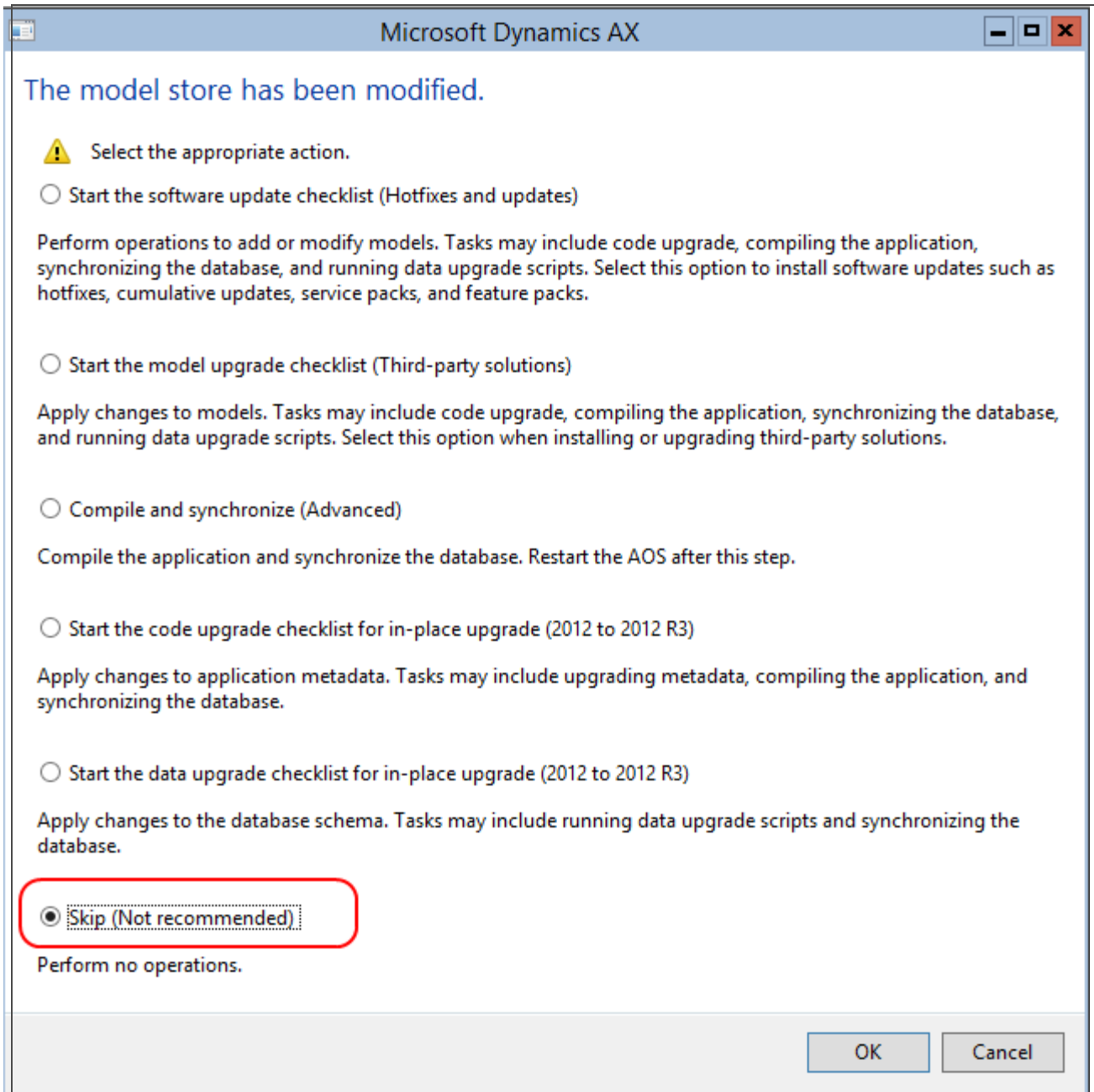
5. Restart AOS and proceed to the next section.

### A Full CIL Compile.



This will take appropriately 30 minutes, depending on your hardware. During this time AX may appear to not be responding. Use the **Task Manager** to confirm activity.

1. After restarting AOS the following window appears, notifying you that the model store has been modified. Select **Skip**, and then select **OK**.



2. Go to **System administration > Periodic > Compile into .NET Framework CIL** to run the compile.

## Database Synchronization.

To run the synchronization, go to **System administration > Periodic > Database > SQL administration > Table actions > Synchronize database.**



This will take appropriately 30 minutes, depending on your hardware. During this time AX may appear to not be responding. Use the **Task Manager** to confirm activity.

## RUN THE IDT SETUP WIZARD

To complete the installation, run the IDT Setup Wizard. The wizard sets up the IDT tax codes and process log settings. It also loads the ONESOURCE IDT Thomson Reuters logo.

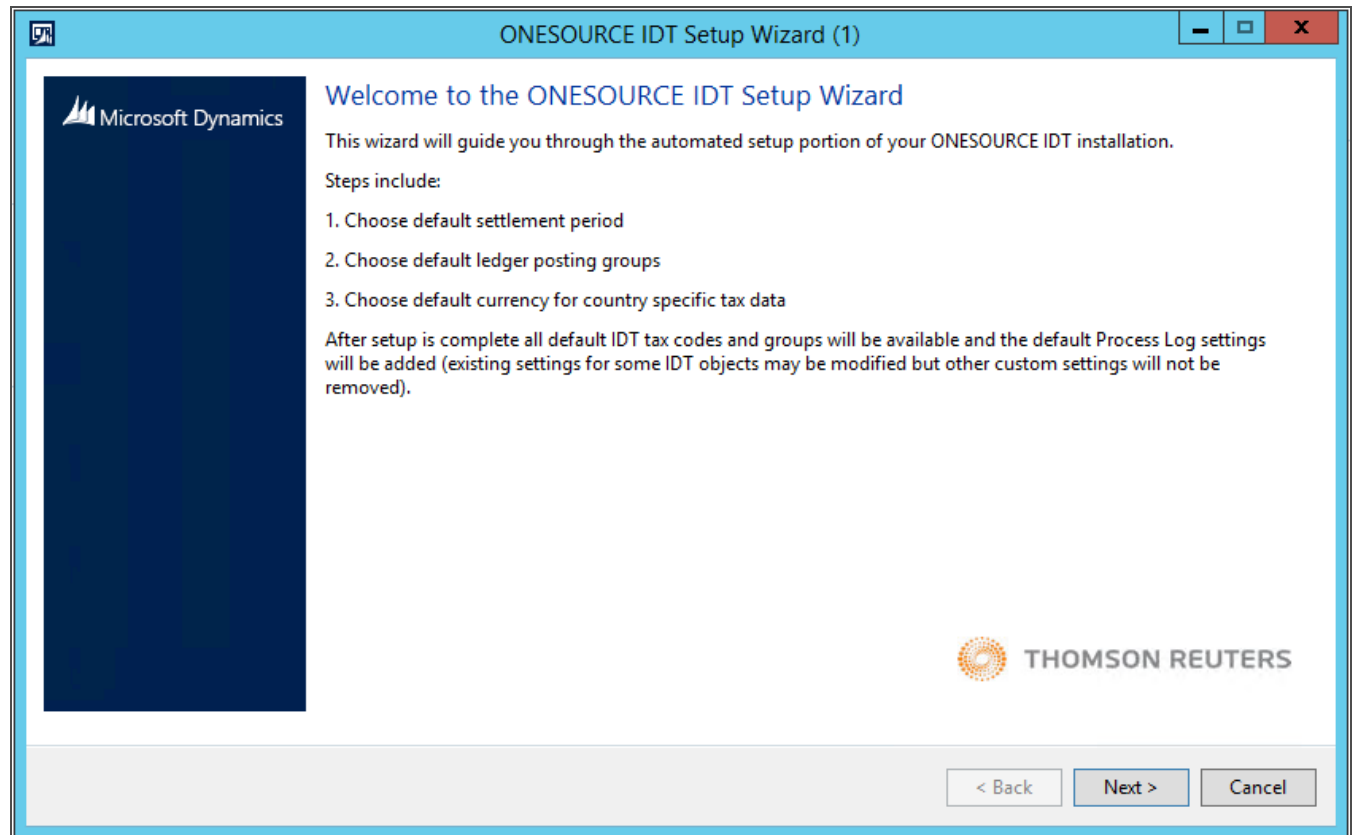
Prior to running the wizard, manually create the following in your system:

- Settlement Period
- Default ledger posting group
- VAT non-recoverable ledger posting group
- VAT variance ledger posting group
- Not found ledger posting group

See the information regarding ledger posting groups found in the table under [Gather Administrative Information \(page 10\)](#) for a more detailed explanation.

## Run the Wizard

1. Go to **System administration > Setup > ONESOURCE IDT Setup Wizard**.



2. Select **Next** when you are ready to proceed.
3. Using the information you previously recorded (see [Gather Administrative Information \(page 10\)](#)), set the default values for **Settlement period**, **Ledger posting groups**, and **Currency**.

Leave the option to clear existing custom attributes set to No for the initial run of this wizard.

ONESOURCE IDT Setup Wizard (1)

### Choose Defaults

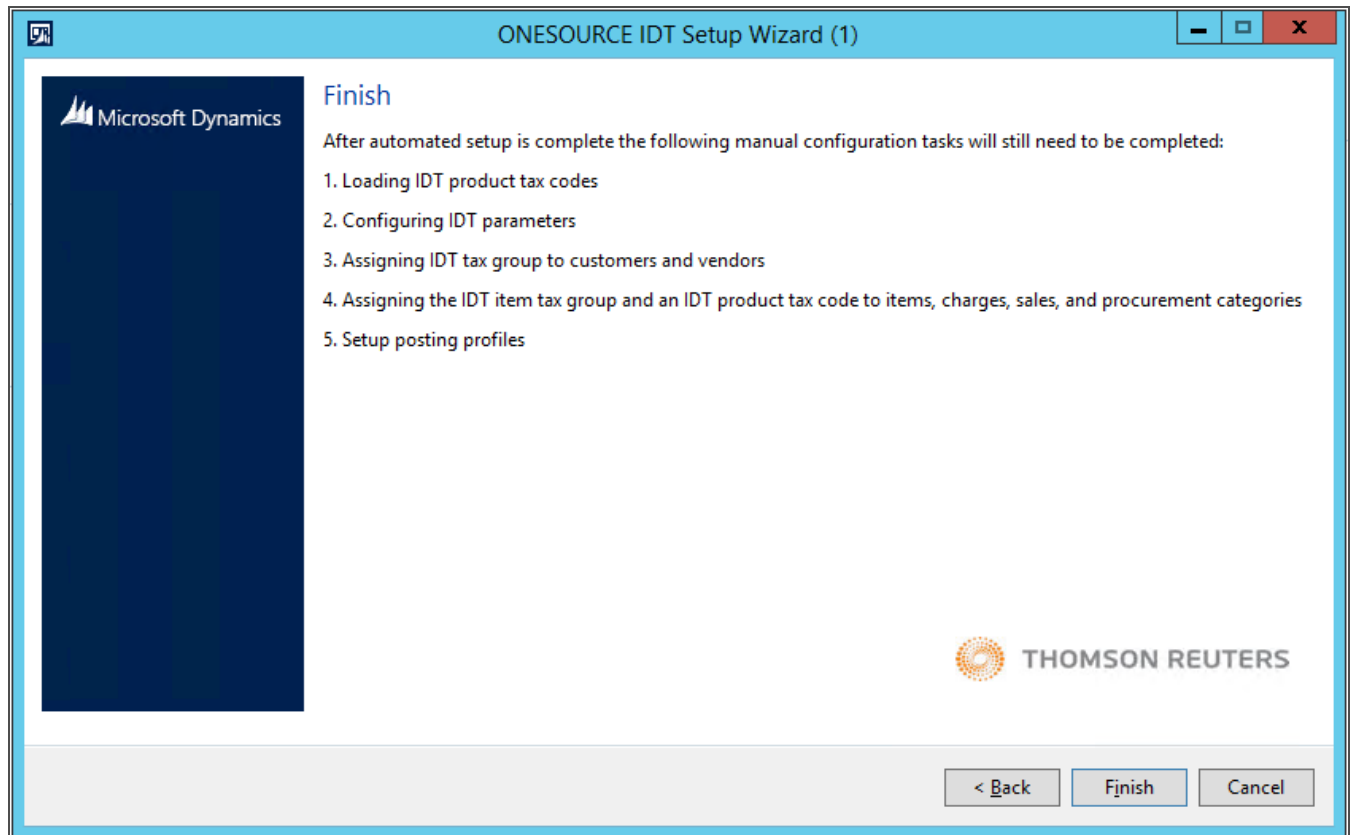
A default settlement period, ledger posting group, and currency must be provided for proper setup.

Settlement period:	IDT
Default ledger posting group:	IDT
VAT non-recoverable ledger posting group:	IDT_NR
VAT variance ledger posting group:	IDT_VAR
Not found ledger posting group:	IDT_NF
Currency:	USD
Clear existing custom attribute configuration data:	No

THOMSON REUTERS

< Back Next > Cancel

5. Select **Next**. The following **Finish** page describes the manual configuration that will be performed by the implementation team.



6. Select **Finish**.

## POST-INSTALLATION TASKS

Once the installation is complete, the following tasks must be completed by the implementation team to enable Dynamics AX to use ONESOURCE Indirect Tax Determination to calculate tax and validate addresses.

- [Load the ONESOURCE IDT Product Tax Codes \(page 28\)](#)
- [Configure the IDT Parameters \(page 29\)](#)
- [Configure IDT Sales Tax Codes \(page 37\)](#)
- [Assign the IDT Sales Tax Group to Customers \(page 42\)](#)
- [Assign the IDT Sales Tax Group to Vendors](#)
- [Assign the IDT Item Sales Tax Group and IDT Product Tax Code to Items \(page 44\)](#)
- [Assign the IDT Sales Tax Group to the On-account Item Sales Tax Group \(page 52\)](#)

Each of these tasks are explained in [Configuring the Integration \(page 27\)](#).



# CONFIGURING THE INTEGRATION

This section describes the steps required to configure the integration between Determination and Dynamics AX. The following configuration tasks are covered in this section:

Assign Security Access .....	27
Load the ONESOURCE IDT Product Tax Codes .....	28
Configure the IDT Parameters .....	29
Configure IDT Sales Tax Codes .....	37
Configure the IDT Ledger Posting Group .....	38
Assign the IDT Sales Tax Group to Customers .....	42
Assign the IDT Sales Tax Group to Vendors .....	43
Assign the IDT Item Sales Tax Group and IDT Product Tax Code to Items .....	44
Set up Posting Profiles .....	47
Additional Configuration .....	48
Recoverability for Purchases .....	57

## ASSIGN SECURITY ACCESS

The installation process creates a new security privilege and duty. Assigning this privilege or duty to a security role allows users linked to that security role to perform the configuration tasks listed below:

### Manual Configuration Tasks

- Configure the **IDT Parameters**
- Assign the **IDT item tax group** and an **IDT product tax code** to items

### Additional Configuration

- Assign the **IDT item tax group** and an **IDT product tax code** to charges codes
- Assign the **IDT item tax group** and an **IDT product tax code** to sales categories
- Delivery terms point of title transfer



System administrators already have the required access to perform the tasks listed above. All other configuration tasks must be completed by users with the proper native AX security access.

## LOAD THE ONESOURCE IDT PRODUCT TAX CODES

Please work with your Professional Services representative to identify and add the required ONESOURCE IDT Product tax codes.

The **ONESOURCE IDT Product tax codes** form shown in the following image may be used to add or delete product tax codes. Use the following steps to add ONESOURCE IDT Product tax codes to your system.

1. Go to **General ledger > Setup > Sales tax > ONESOURCE IDT Product tax codes**.

ONESOURCE IDT Product tax code	ONESOURCE IDT Product tax code descripti...
G150	General taxes - 15%
G64K	Facsimile Paper
GC66	Generic Taxable Item
GF3A	GF3A Generic Non Taxable Product
GGC7	GGC7 New Taxable Product

2. Choose **New** from the ribbon menu to add a new code and description. The code must correspond to an existing code in Determination.



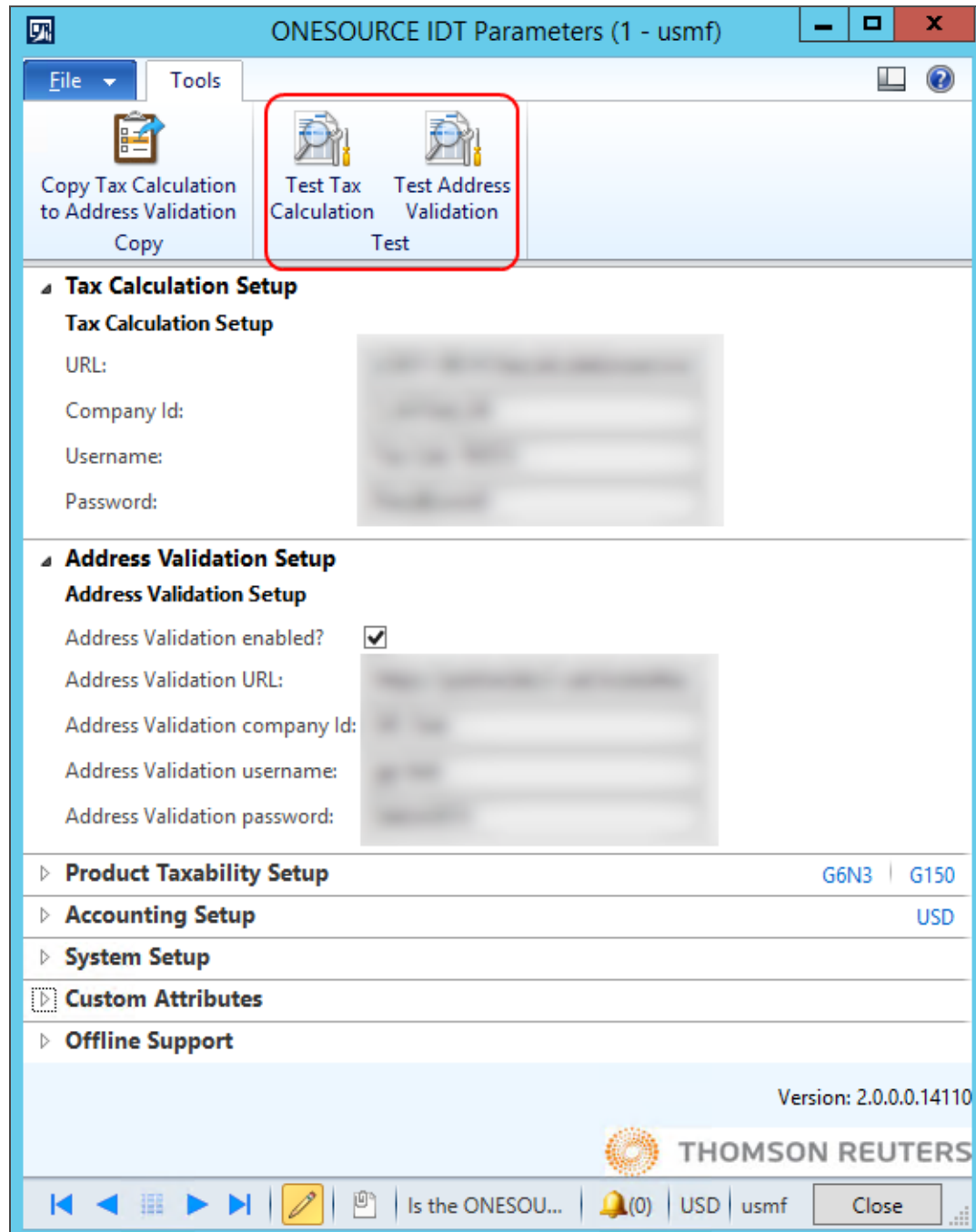
Product tax codes may not be deleted if in use on the **ONESOURCE IDT Parameters** form, an item (for sell or purchase), a sales or procurement category, or a charge code.

## CONFIGURE THE IDT PARAMETERS

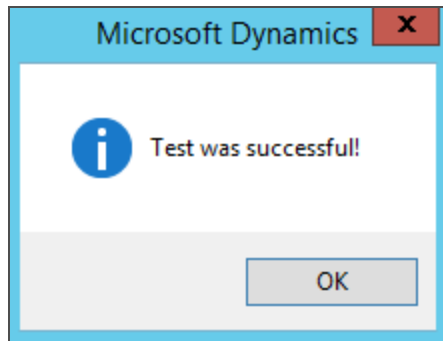
The **ONESOURCE IDT Parameters** form is used to set your connection and system defaults.

1. Go to **General Ledger > Setup > Sales Tax > ONESOURCE IDT Tax Parameters**.
2. Enter the required information in the **ONESOURCE IDT Parameters** form, using the information you recorded earlier (see [Gather Administrative Information \(page 10\)](#)).

3. Once all of the required information is entered, select **Test Tax Calculation** and **Test Address Validation** on the **Tools** tab to verify that the URLs and credentials you entered are correct.



4. Select **OK** to close the **Test Results** pop-up.



5. Select **Close** at the bottom of the **ONESOURCE IDT Parameters** form.



Updates to the **ONESOURCE IDT Parameters** form take effect immediately. You do not need to log out of Dynamics AX to save your changes.

## Custom Attributes Setup

The custom attributes feature gives you the ability to include up to 40 additional header and 40 additional line elements in the tax calculation request. Custom attributes are configured using the **ONESOURCE IDT Parameters** form.

1. Go to **General Ledger > Setup > Sales Tax > ONESOURCE IDT Tax Parameters**.
2. Expand the **Custom Attributes** fast tab.

The screenshot shows the 'ONESOURCE IDT Parameters (1 - usmf)' window. The 'Tools' menu is open, showing options: 'Copy Tax Calculation to Address Validation Copy', 'Test Tax Calculation Test', and 'Test Address Validation Test'. The main area has several expandable sections: 'Tax Calculation Setup', 'Address Validation Setup', 'Product Taxability Setup' (with links G6N3 and G150), 'Accounting Setup' (with link USD), and 'System Setup'. The 'Custom Attributes' section is expanded, showing a 'Configure' button and a list of document types: 'Document type', 'Sales Quotation', 'Sales Order' (highlighted), 'Free Text Invoice', 'Purchase Requisition', 'Request for Quotation', 'Purchase Order', 'Invoice Journal', and 'Project'. Below this is the 'Offline Support' section. The bottom status bar shows 'Version: 2.0.0.0.14110', the Thomson Reuters logo, and navigation controls including 'Highlight a doc...', a bell icon with '(0)', 'USD', 'usmf', and a 'Close' button.


3. Select a document type to configure using the table below for guidance.

DOCUMENT TYPE	RELATED DOCUMENT TYPES
Sales Quotation	Sales Quotation Confirmation, Sales Quotation Journal
Sales Order	Sales Order Confirmation, Sales Invoice, Return Order
Free Text Invoice	Free Text Invoice
Purchase Requisition	Purchase Requisition
Request for Quotation	Request for Quotation Reply, Request for Quotation Journal
Purchase Order	Vendor Invoice, Purchase Invoice
Vendor Invoice Journal	Vendor Invoice Journal
Project	Project Invoice

4. Select the **Configure** button at the top of the grid. The following **ONESOURCE IDT Custom attributes config** window opens.

Attribute name	Attribute level	Relation name	Field name	Active	Description
Attribute01	Header	OrderCustomer	SalesGroup	<input checked="" type="checkbox"/>	Sales Grouping for the customer
Attribute02	Header	SalesTable	CustGroup	<input checked="" type="checkbox"/>	Customer Group
Attribute03	Header			<input type="checkbox"/>	
Attribute04	Header			<input type="checkbox"/>	
Attribute05	Header			<input type="checkbox"/>	
Attribute06	Header			<input type="checkbox"/>	
Attribute07	Header			<input type="checkbox"/>	
Attribute08	Header			<input type="checkbox"/>	
Attribute09	Header			<input type="checkbox"/>	
Attribute10	Header			<input type="checkbox"/>	
Attribute11	Header			<input type="checkbox"/>	
Attribute12	Header			<input type="checkbox"/>	

Indicates if the attribute will be used by the Tax Engine when generating a tax request.

5. Using the configuration window, perform the following:
- Select an unused header or line attribute.
  - Select the **Relation name**. Use the table found in [Appendix E - Custom Attributes Reference \(page 115\)](#) as reference.
  - Select the **Field name**.
  - To include the attribute in tax calls, select the **Active** check box.
-  The **Active** check box may be cleared if you wish to temporarily remove the attribute from the tax call.
- If desired, use the **Description** field to document how the attribute is used or why it is included in tax calls.
6. Repeat the process for each additional data element you wish to include in the tax call.



## Offline Support Setup

This feature allows transactions to save with default tax rates that you choose when ONESOURCE is not available.

The screenshot shows the 'ONESOURCE IDT Parameters (1 - usmf)' window. The 'Tools' menu is open, showing options like 'Copy Tax Calculation to Address Validation Copy', 'Test Tax Calculation', and 'Test Address Validation Test'. The 'Offline Support' section is expanded, showing 'Offline Support Setup' with a dropdown menu set to 'Allow save for non-posting only' and a text box for 'Default offline tax rate (all countries)' set to '20.00'. Below this is a table with columns 'Country/region', 'Description', and 'Default offline tax rate'. The table contains two rows: 'CAN' for 'Canada' with a rate of '12.00', and 'USA' for 'United States' with a rate of '7.00'. The bottom of the window shows the 'THOMSON REUTERS' logo, the version '2.0.0.0.14110', and a status bar with navigation icons, a 'Specify when to...' button, a bell icon with '(0)', the currency 'USD', the file name 'usmf', and a 'Close' button.

Country/region	Description	Default offline tax rate
CAN	Canada	12.00
USA	United States	7.00

Using the drop-down menu, you may choose if you want to update sales documents with tax when ONESOURCE is offline. Purchase transactions are always saved without use tax when ONESOURCE is offline. The following table describes each of the options:

OPTION	DESCRIPTION
No offline support	<p>Sales transactions encounter an error and no tax is applied when ONESOURCE is offline.</p> <p>The Infolog error will state: "The IDT ONESOURCE Tax Service did not respond. The offline tax service is disabled."</p>
Allow for non-posting only	<p>Posting documents, such as Sales invoices, will not have tax applied or post. However, non-posting sales transactions are updated with a default tax rate when ONESOURCE is offline.</p> <p>The Infolog warning will state: "The IDT ONESOURCE Tax Service did not respond. Proceeding with default tax rates."</p>
Allow for all	<p>All sales documents are updated with a default rate when ONESOURCE is offline.</p> <p>The Infolog warning will state: "The IDT ONESOURCE Tax Service did not respond. Proceeding with default tax rates."</p>

You can set a default rate for all countries by entering one in the field directly under the drop-down menu. In addition, exceptions to the default rate may be configured for specific countries as your business needs require.

# CONFIGURE IDT SALES TAX CODES

## Verify Default IDT Sales Tax Code Settings

During the installation process, the **IDT Setup Wizard** was used to assign a default **Currency**, **Settlement period**, and **Ledger posting group** to the **IDT Sales tax codes**. You will now verify those assignments and make any necessary corrections.

1. Go to **General Ledger > Setup > Sales Tax > Sales tax codes**.
2. Update any **IDT Sales tax codes** that do not have the correct **Currency**, **Settlement period**, or **Ledger posting group** assigned to them. The following image shows this.

The screenshot displays the 'Sales tax codes (1 - usmf)' window. On the left, a list of sales tax codes is shown, with 'IDT\_OR\_S' (IDT Oregon Sales Tax Code) selected. The right pane shows the configuration for this code. The 'General' section includes 'Currency' (USD), 'Packing duty' (Sort code), 'Conditional sales tax' (Payment sales tax code), 'Invoicing' (Print, Print code), and 'References' (Settlement period: IDT, Ledger posting group: IDT). The 'Calculation' section is expanded. The 'Report setup' section includes 'Report setup - credit note' with 'Sale' and 'Import' sub-sections. The 'Sale' sub-section has 'Taxable sales credit note', 'Tax exempt sales credit note', and 'Sales tax on sales credit note'. The 'Import' sub-section has 'Taxable import credit note', 'Offset taxable import credit note', 'Sales tax on import credit note', and 'Offset sales tax on import credit note'. A 'Close' button is at the bottom right.

## Add IDT Sales Tax Groups and Sales Tax Codes for Charges (Optional)

The **IDT Setup Wizard** created a generic **IDT\_CHARGE** sales tax group and sales tax code. To add additional sales tax groups and sales tax codes for different types of charges, perform the following steps:

1. Go to **General ledger > Setup > Sales tax > Sales tax codes**.
2. Select **New** to create a new **Sales tax code**. The sales tax code must start with **IDT**, e.g. **IDT\_FREIGHT**.
3. Go to **General ledger > Setup > Sales tax > Sales tax groups**.
4. Select **New** to create a new **Sales tax group**. The sales tax group must start with **IDT**, for example. **IDT\_FREIGHT**.
5. Go to the **Setup** tab.
6. Select **Add** to assign the sales tax code created in step 2 to the sales tax group created in step 4.



This should be the only sales tax code assigned to the sales tax group.

Sales tax code	Exempt	Exempt code	Use tax	Percentage/Amount	Name
IDT_CHARGE	<input type="checkbox"/>		<input type="checkbox"/>	0.00000	IDT Charge Tax Code

## CONFIGURE THE IDT LEDGER POSTING GROUP

The ONESOURCE integration uses the AX **Ledger posting groups** to specify the accounts to use during the posting of tax related amounts for selling and purchasing transactions.



You must set up your main tax accounts before completing this section.

1. Go to **General Ledger > Setup > Sales Tax > Ledger posting groups**.
2. Select the **IDT** Ledger posting group.

3. Select an account for each of the **Posting** accounts shown in the following image.

The screenshot shows the 'Ledger posting groups (1 - usmf)' window. On the left, a list of ledger posting groups is displayed, with 'IDT' selected. The main area shows the configuration for the 'IDT' group. The 'General' tab is active, and the 'Posting' section is highlighted with a red arrow. The 'Posting' section contains five dropdown menus: 'Sales tax payable' (202800), 'Sales tax receivable' (602810), 'Use tax expense' (202810), 'Use tax payable' (602812), and 'Settlement account' (202812). The 'Cash discount posting' section contains two dropdown menus: 'Vendor cash discount' (110180) and 'Customer cash discount' (112000). The status bar at the bottom shows 'Name of ledger posting group for sales tax.' and a 'Close' button.

The **Posting** accounts are used for the following purposes:

- **Sales tax payable** - The credit entry for sales tax on a sales invoice.
- **Sales tax receivable** - The debit entry for the vendor charged use tax on a vendor invoice.
- **Use tax expense** - The credit entry for the accrual of any difference between the vendor charged tax and the use tax as calculated by ONESOURCE.
- **Use tax payable** - The debit entry for the accrual of any difference between the vendor charged tax and the use tax as calculated by ONESOURCE.
- **Settlement account** - Not used by the ONESOURCE integration for posting purposes.

The following is an example of a sales invoice voucher:

Voucher transactions (1 - usmf) - Journal number: 014362, 10/13/2016

File Subledger journal Transaction origin Transactions Audit trail Posted sales tax Original document Related vouchers All related vouchers

Overview General Amount

Journal number	Voucher	Date	Year closed	Ledger account	Currency	Amount in transaction currency	Amount	Amount in
014362	INV-10000833	10/13/2016	<input type="checkbox"/>	202800--	USD	-18.00	18.00	
014362	INV-10000833	10/13/2016	<input type="checkbox"/>	130100--	USD	218.00	218.00	
014362	INV-10000833	10/13/2016	<input type="checkbox"/>	401100--023--TV&Video	USD	-200.00	200.00	

Description: Posting type: Sales order revenue

Account name: Product Sales

Unique key for generating general ledger entries | USD | usmf | Close

The following is an example of vendor invoice with VCT, but no accrual:

Voucher transactions (1 - usmf) - Journal number: 014363, 10/13/2016

File Subledger journal Transaction origin Transactions Audit trail Posted sales tax Original document Related vouchers All related vouchers

Overview General Amount

Journal number	Voucher	Date	Year closed	Ledger account	Currency	Amount in transaction currency	Amount	Amount in
014363	PIV-110000647	10/13/2016	<input type="checkbox"/>	130810-001-	USD	8.17	8.17	
014363	PIV-110000647	10/13/2016	<input type="checkbox"/>	618900-001---Consume	USD	99.00	99.00	
014363	PIV-110000647	10/13/2016	<input type="checkbox"/>	200110-001-	USD	-107.17	107.17	

Description: Vendor invoice Posting type: Vendor balance

Account name: Accounts Payable - Other

Unique key for generating general ledger entries | USD | usmf | Close

The following is an example of a vendor invoice with an accrual:

Voucher transactions (1 - usmf) - Journal number: 014364, 10/13/2016

File Subledger journal Transaction origin Transactions Audit trail Posted sales tax Original document Related vouchers All related vouchers

Overview General Amount

Journal number	Voucher	Date	Year closed	Ledger account	Currency	Amount in transaction currency	Amount	Amount
014364	PIV-110000648	10/13/2016	<input type="checkbox"/>	602810-001---Consume	USD	-0.17	0.17	
014364	PIV-110000648	10/13/2016	<input type="checkbox"/>	202810-001-	USD	0.17	0.17	
014364	PIV-110000648	10/13/2016	<input type="checkbox"/>	130810-001-	USD	8.00	8.00	
014364	PIV-110000648	10/13/2016	<input type="checkbox"/>	618900-001---Consume	USD	99.00	99.00	
014364	PIV-110000648	10/13/2016	<input type="checkbox"/>	200110-001-	USD	-107.00	107.00	

Description: Vendor invoice Posting type: Vendor balance

Account name: Accounts Payable - Other

Unique key for generating general ledger entries | USD | usmf | Close

## ASSIGN THE IDT SALES TAX GROUP TO CUSTOMERS

The following steps describe the process of using the **Customers** form to assign the IDT Sales tax group to customers.

1. Go to **Accounts Receivable > Common > Customers > All Customers**.
2. For each customer that you will use Determination to calculate tax for:
  - i. Select **Edit**.
  - ii. On the **Invoice and delivery** tab, set **Sales tax group** to **IDT**. The following image shows this.

The screenshot shows the 'Customers (1 - usmf) - Customer account: US-013, Pelican Wholesales' form. The 'Invoice and delivery' tab is selected. In the 'Sales tax' section, the 'Sales tax group' dropdown is set to 'IDT'. Other fields in the 'Invoice' section include 'Invoice account', 'Invoice address', 'Number sequence group', and 'Invoice template'. The 'RFID tagging' section has checkboxes for 'Item tagging', 'Case tagging', and 'Pallet tagging'. The 'Freight' section is also visible.



Entering a **Tax exempt number** in the **Tax exempt number** field of the **Customers** form does not impact sales tax calculation. Only exemption certificates maintained in ONESOURCE Certificate Manager impact tax calculation.



## ASSIGN THE IDT SALES TAX GROUP TO VENDORS

The following steps describe the process of using the **Vendors** form to assign the IDT Sales tax group to vendors.

1. Go to **Accounts Payable > Common > Vendors > All Vendors**.
2. For each vendor that you will use Determination to calculate tax for:
  - i. Select **Edit**.
  - ii. On the **Invoice and delivery** tab, set **Sales tax group** to **IDT**.

**Vendors (1 - usmf) - Vendor account: 1001, Acme Office Supplies**

**File** | **Vendor** | **Procurement** | **Invoice** | **General**

**1001 : Acme Office Supplies**

**Addresses**

**Contact information**

**Miscellaneous details** | 0.00 | No

**Vendor profile**

**Purchasing demographics** | USD | | | |

**Invoice and delivery**

**Invoice**

Invoice account: [ ]

Number sequence group: [ ]

Vendor price tolerance group: [ ]

Vendor exception group: [ ]

**Offset account**

Account type: **Ledger**

Offset account: **606300**

**Delivery**

UPS zone: [ ]

Delivery terms: [ ]

Mode of delivery: [ ]

Destination code: [ ]

**Sales tax**

Sales tax group: **IDT**

Prices include sales tax: ☐

Tax exempt number: [ ]

**Withholding tax**

Calculate withholding tax: ☐

Withholding tax group: [ ]

**Primary address**

711 Louisiana St # st1  
Houston, TX 77002-2716  
USA

**Related information**

**Recent activity**

**Tax registration**

**Name** | **Registration number**

QST | sadfasdfsdf

**Roles**

**Relationships**

A group of sales tax codes for calculating taxes on a sale or purchase | USD | usmf | Close

## ASSIGN THE IDT ITEM SALES TAX GROUP AND IDT PRODUCT TAX CODE TO ITEMS

Two methods are available to assign the **IDT Item sales tax group** and an **IDT product tax code** to your items. You may assign different IDT Product Tax Codes for sales and purchases of an item.

### Method 1: ONESOURCE IDT Item Taxability Form

1. Go to **General ledger > Setup > Sales tax > ONESOURCE IDT Item Taxability**.
2. Select the desired item.
3. Set the **Item sales tax group** to **IDT**.
4. Set the **ONESOURCE IDT Product tax code** to the desired code for sales and purchases of the item.  
The following image is an example.

Item nu...	Search name	Item sales tax group sell	ONESOURCE IDT Product tax code sell	ONESOURCE IDT Product tax c...	Item sales tax group purchase	ONESOURCE IDT Product tax code
1000	SurfacePro	AU/VI	G6N3	G6N3 Maintenance Agreements		
99999	CleaningTowel		GC66	Generic Taxable Item		
A0001	HDMI 6' Cables	IDT	GC66	Generic Taxable Item	IDT	GC66
A0002	HDMI 12' Cables	IDT	G150	General taxes - 15%	IDT	GF3A
A0003	A0003	IDT	GC66	Generic Taxable Item	IDT	G6N3
C0001	Microsoft Natural Ke	IDT	GC66	Generic Taxable Item	IDT	GC66
C0002	Microsoft Arc™ Key...	IDT	GC66	Generic Taxable Item	IDT	GF3A
C0003	Microsoft Arc™ Mo...	IDT	GGC7	GGC7 New Taxable Product	IDT	G6N3
C0004	Lifecam HD 5000	IDT	GC66	Generic Taxable Item	IDT	GGC7
D0001	MidRangeSpeaker	IDT	SD9B	SD9B Maintenance Agreement...	IDT	SD9B
D0002	Cabinet	AU/VI	G150	General taxes - 15%	AU/VI	
D0003	StandardSpeaker	IDT			IDT	GGC7
D0004	HighEndSpeaker	AU/VI	GC66	Generic Taxable Item	AU/VI	
D0005	CarAudioSystem	AU/VI			AU/VI	
D0006	Speaker solution		T200	Installation		
D0007	Speaker Pro Kit				IDT	GGC7

5. Repeat these steps for each item that Determination will be used to calculate tax for.

## Method 2: Released Product Details Form

1. Go to **Product information management > Common > Released products**.
2. On the **Action Pane** of the **Maintain** group, select **Edit**.
3. On the **Sell** tab, set the **Item sales tax group** to **IDT**.

4. Set the **ONESOURCE IDT Product tax code** to the desired product code as shown in the following image.

Sale:

The screenshot shows the 'Released product details' form for product A0001, 'HDMI 6' Cables'. The form is divided into several sections: 'Sales order', 'Administration', 'Taxation', 'Charges', 'Discounts', 'Alternative product', and 'Price update'. The 'Taxation' section is highlighted with a red box, showing the 'Item sales tax group' set to 'IDT' and the 'ONESOURCE IDT Product tax code sell' set to 'GC66'. The 'Charges' section shows 'Charges group' and 'Price charges' set to '0.00'. The 'Discounts' section shows 'Line discount group', 'Multiline discount', and 'Total discount' set to '0.00'. The 'Alternative product' section shows 'When to use' set to 'Never' and 'Alternative item number' set to 'None'. The 'Price update' section shows 'Sales price model' set to 'None'. The 'Retail channels' section on the right is empty.

In this example the ONESOURCE IDT Product tax code is shown as purchase.

Purchase:

The screenshot shows the 'Released product details' window for product A0001, 'HDMI 6' Cables'. The 'Taxation' section is highlighted with a red box, showing 'ONESOURCE IDT Product tax code purchase: GC66'. Other sections include 'Purchase order', 'Administration', 'Prices', 'Charges', and 'Discounts'.

5. Repeat these steps for each item that Determination will be used to calculate tax for.

## SET UP POSTING PROFILES

1. Go to **Inventory management > Setup > Inventory > Item groups**.
2. Select **Posting**.

3. Select **Issue** on the **Sales order** and **Inventory** tabs to verify that accounts have been assigned.

Item code	Item relation	Category relation	Account code	Account relation	Sales tax group	Main account
All			All			140200



More information about how to use this form is available by pressing F1 to open the help documentation or by visiting the Microsoft [website](#).

## ADDITIONAL CONFIGURATION

The configuration tasks in this section may be required depending on your business needs.

## Configure Dynamics AX to Use Determination to Calculate Tax on Charges

If you will use Determination to calculate tax for charges, you must assign the **ONESOURCE IDT Item sales tax group** and a **ONESOURCE IDT Product tax code** to the charges codes.

### Assign the IDT Item Sales Tax Group and a IDT Product Tax Code to Charges Codes.

1. Go to **Accounts receivable > Setup > Charges > Charges code**.
2. For each **Charges code**:
  - Set the **Item sales tax group** to **IDT** if you are using the **Charges code** at the header level.
  - Set the **ONESOURCE IDT Product tax code** as shown in the following image.

The screenshot shows the 'Charges code (2 - usmf)' form in Dynamics AX. On the left, a list of charges codes is displayed, including 'FREIGHT'. The main form area shows the configuration for the selected 'FREIGHT' code. The 'Charges code' field is 'FREIGHT' and the 'Description' is 'Freight'. The 'Item sales tax group' is set to 'IDT' and the 'ONESOURCE IDT Product tax code' is set to 'GC66'. The 'Posting' section is expanded, showing 'Debit' and 'Credit' posting information. The 'Debit' type is 'Customer/Vendor' and the 'Credit' type is 'Ledger account'.



Commodity code assignment to charges is not available on this form. However, you may assign commodity codes to charges in Determination.

## Configure Dynamics AX to Use Determination to Calculate Tax for Sales Categories

If you will use Determination to calculate tax for sales categories, you must assign the **ONESOURCE IDT Item sales tax group** and a **ONESOURCE IDT Product tax code** to your sales categories.

### Assign the IDT Sales Tax Group and a IDT Product Tax Code to Sales Categories

1. Go to **Sales and Marketing > Setup > Categories > Sales categories**.
2. Set the **Item sales tax group** to **IDT**.
3. Set the **ONESOURCE IDT Product tax code** to the desired product code as shown in the following image.

The screenshot shows the 'Sales categories (2)' window. On the left, a tree view shows the 'Sales hierarchy' with categories like 'Auto audio systems', 'Auto accessories', 'Auto audio parts', 'Auto receivers', 'Auto speakers', 'Installation', 'Home audio', and 'Home video'. The main area is divided into two tabs: 'General' and 'Item sales tax group'. The 'General' tab is active, showing 'Category details'. The 'Name' field is 'Auto audio systems', 'Active' is 'Yes', 'Activated date' is '9/21/2012 02:31:54 am', and 'Modified date' is '1/4/2009 01:59:49 am'. The 'Item sales tax group' is set to 'IDT' and the 'ONESOURCE IDT Product tax code' is 'GC66'. A red box highlights the 'Item sales tax group' and 'ONESOURCE IDT Product tax code' fields.



You can also assign product taxability by entering a commodity code into the **Code** field on the **General** tab. Each commodity code can only be used once across all sales categories.

4. Repeat these steps for each Sales category.



You can override the sales category commodity code for a sales transaction by using the **Commodity** field located on the **Foreign Trade** tab.



## Configure Dynamics AX to Use Determination to Calculate Tax for Purchasing Categories

If you will use Determination to calculate tax for purchasing categories, you must assign the **ONESOURCE IDT Item sales tax group** and a **ONESOURCE IDT Product tax code** to your purchasing categories.

### Assign the IDT Item Sales Tax Group and a IDT Product Tax Code to Purchasing Categories

1. Go to **Procurement and sourcing > Setup > Categories > Procurement categories**.
2. Set the **Item sales tax group** to **IDT**.
3. Set the **ONESOURCE IDT Product tax code** to the desired product code as shown in the following image..

The screenshot shows the 'Procurement categories: Procurement - Office Supplies (1)' window. On the left, a tree view shows 'CORP PROCUREMENT CATEGORIES' with 'ADVERTISING' selected. The main area has a 'Buying legal entity' dropdown set to 'Contoso Entertainment System USA'. Below this, there are expandable sections: 'Vendors', 'Vendor evaluation criterion groups', 'Questionnaires', 'Item sales tax groups' (which is expanded), 'Category attribute values', 'Category page', and 'Commodity codes'. In the 'Item sales tax groups' section, 'Item sales tax group' is set to 'IDT' and 'ONESOURCE IDT Product tax code' is set to 'GC66'. The 'Commodity codes' section shows a table with columns 'Commodity codes' and 'Description', and a message 'This grid is empty.'



You can also assign product taxability by entering a commodity code into the **Code** field on the **General** Tab. Each commodity code can only be used once across all purchasing categories.

4. Repeat these steps for each procurement category.



You can override the purchasing category commodity code on the sales transaction by using the **Commodity** field located on the **Foreign Trade** tab.

## Configure Dynamics AX to Use Determination to Calculate Tax for Project On-Account Transactions

If you will use Determination to calculate tax for Project On-account transactions, you must assign the ONESOURCE IDT Item sales tax group to On-account item sales tax group on the **Financial** tab of the **Project management and accounting parameters** form.

### Assign the IDT Sales Tax Group to the On-account Item Sales Tax Group

1. Go to **Project management and accounting > Setup > Project management and accounting parameters**.

2. Set the **On-account item sales tax group** to **IDT**.

The screenshot shows the 'Project management and accounting parameters (1 - usmf)' window. The left sidebar lists various categories: General, Financial (selected), Scheduling, Journals, Intercompany, Timesheet, Invoice, Forecast, Estimate, Hour utilization, Project statements, Cost control, Forecast reduction, Inventory dimensions, Production, Project stage, Vendor contract language, and Number sequences. The main area is titled 'Set up financial information for projects'. It contains several sections: 'Detail ledger posting' with fields for Invoice (Total), Adjustment (Total), Post costs (Total), Accrue revenue (Total), Subscription (Total), and Estimate (Total); 'Detail WIP ledger posting' with a field for Post costs (Total); 'Project - sales tax' with fields for Sales tax group method (Project), Item sales tax group method (Item number), On-account item sales tax group (IDT, highlighted with a red circle), and Calculation date type (Invoice date); and 'Payment mode' with a field for Method of payment. At the bottom, there is a note: 'Determine the detail level of ledger update transactions when posted from Project to General ledger.' and a 'Close' button.

## Set Point of Title Transfer for Delivery Terms

Delivery terms establish shipping responsibilities, payments of costs and duties, and when the risk of loss transfers. Delivery terms do not establish where the title transfers (the taxable event), which may be a different physical location than the delivery location. Therefore, for accurate tax calculation, it may be necessary to set a point of title transfer on the delivery terms.

Point of Title Transfer indicates where the title transfers. Each of the standard Dynamics AX delivery terms should be assigned an **ONESOURCE IDT Point of Title Transfer** code to specify where the transfer of the title of ownership takes place. This will be destination, origin or in-transit. Use the following relationship between the **Delivery terms** and the **Point of Title Transfer** code to assign the codes:

DELIVERY TERMS CODE	POINT OF TITLE TRANSFER CODE
CFR	None
CIF	None
DDP	Destination
DES	None
EXW	Origin
FAS	None
FCA	None
FOB	None

1. Go to **Sales and marketing > Setup > Distribution > Terms of delivery**.
2. Set the **ONESOURCE IDT Point of Title Transfer** to the desired value.

Image following shows the title transfer selection **Destination**.

The screenshot shows the 'Terms of delivery (2 - usmf)' window. On the left, there is a list of delivery terms with their descriptions: CFR (Cost and freight), CIF (Cost, insurance, freight), DDP (Delivered duty paid), DES (Delivered ex ship), EXW (Ex works), FAS (Free along ship), FCA (Free carrier (place)), and FOB (Free on Board). On the right, the setup form is displayed. The 'Delivery terms' field is set to 'CFR' and the 'Description' is 'Cost and freight'. Under the 'General' section, the 'Setup' sub-section is expanded. The 'Freight charge terms' is set to 'Not applicable'. The 'Apply free minimum' checkbox is unchecked. The 'Free minimum' field is set to '0.00'. The 'Freight charge terms' is set to 'Prepaid'. The 'ONESOURCE IDT Point of Title Transfer' is set to 'Destination', which is highlighted with a red box. Below this, the 'Transportation management' section is visible. At the bottom of the window, there is a status bar with the text 'Whether transportation charges should be added to orders' and a 'Close' button.

## Set up Tax Registrations

Follow the instructions in this section to set up your legal entity registrations in Determination and your customer and vendor registrations in Dynamics AX.

### *Legal Entity Registrations*

To enable Determination to calculate tax on your non-US transactions, set up the registrations for your legal entities in Determination. Registrations for your legal entities that are configured in Dynamics AX are not sent to Determination for tax calculation.

### *Customer Registrations*

Registrations for the buyer (customer) should be set on any addresses that may be shipped to (typically these addresses have a purpose of **Delivery**).

1. Go to **Accounts receivable > Common > Customers > All customers**.
2. Select a customer, and then select **Edit**.
3. Go to the **Address** tab.
4. Select the desired address, and then select **Edit**.
5. Go to the **Tax registration** tab.

6. Create the registration.

**Edit address (1) - Customer account: 3001, Address Validation**

Location ID: 000005224

Name or description: Northern Lights

Purpose: Business;Delivery

City: Toronto

State: ON

Primary: ☐

Primary for country: ☐

Private: ☐

▶ **Contact information**

▲ **Tax registration**

+ Add - Remove Edit

Current records

Registration type	Country/region	Authority	Registration number	Description
Provincial	CAN		123456788RT	

▶ **General**

▶ **Delivery**

OK Cancel



To be considered during tax calculation, the registration must be associated with one address that is used as either a bill-to or a ship-to location on the sales transaction.

## Vendor Registrations

Registrations for the seller (vendor) should be set on any addresses that may be purchased from (typically these addresses have a purpose of **Business**).

1. Go to **Accounts payable > Common > Vendors > All vendors**.
2. Select a vendor, and then select **Edit**.
3. Go to the **Address** tab.
4. Select the desired address, and then select **Edit**.
5. Go to the **Tax registration** tab.
6. Create the registration(s).

## Configure Currency Conversions

The configuration of currencies and exchange rates in AX 2012 impacts the ONESOURCE IDT integration. All amounts in the tax request are converted from the transaction currency to company base currency using the **Default Exchange Rate Type** selected on the **Ledger** form under the menu path **General Ledger > Setup > Ledger**. As such, tax is calculated using the company base currency and returned to AX 2012 where it is converted back to the transaction currency using the same rate. In ONESOURCE IDT, the transaction is recorded in the company base currency.

## RECOVERABILITY FOR PURCHASES

Recoverability and partial recoverability for purchase transactions is supported by ONESOURCE. There are currently many partial recoverability rules included in standard Determination Content. If you need to configure partial recoverability for a product for which a rule is not provided you can create a custom rule in Determination.

By default, 100% of the input tax returned in a tax response is considered recoverable. You can override this behavior by configuring rules in Determination to define recoverability for items used in the course of your specific business activity. These custom rules determine the input recovery percent for a given line resulting in two tax blocks, one for recoverable and the other for the non-recoverable input tax. Generally the non-recoverable portion would be aligned with an expense account in your AX 2012 Sales tax code configuration.

Without recoverability configured for the item in the following example, the Temporary tax lines would display a single line with a tax amount of €550. With recoverability configured with rules in Determination, the result is split into recoverable and non-recoverable amounts. In our example the €550 VAT is 25% recoverable. The non-recoverable portion is posted to a separate Ledger posting group called **IDT\_NR** in our example seen in the following screen shots.

Sales tax transactions (1 - frsi)

File Distribute amounts

Total calculated sales tax amount: 30.25 Total actual sales tax amount: 30.25

Overview General

Sales tax code	Quantity	Amount origin	Adjusted amount origin	Percent	Calculated sales tax amount	Actual sales tax amount	Override calculated sales tax	Sales tax direct
IDT_FR_I	0.00	550.00	0.00	5.50000	7.56	7.56	<input type="checkbox"/>	Sales tax receiv
IDT_FR_I_NR	0.00	550.00	0.00	5.50000	22.69	22.69	<input type="checkbox"/>	Sales tax receiv

Total actual sales tax amount, displayed in the transaction currency

Close

GL postings for the recoverable and non-recoverable portions of the tax are controlled by the Ledger posting group assigned to the Sales tax code. The following is the Sales tax code for the non-recoverable tax and associated Ledger posting group.

Sales tax codes (1 - frsi)

File New Delete Values Limits Inquiries Print External codes Recalculate tax Tax directives

Sales tax code	Name
IDT_FL_S	IDT Florida Sales Tax Code
IDT_FM_P	IDT Federated States of Micronesia Use Tax ...
IDT_FM_S	IDT Federated States of Micronesia Sales Ta...
IDT_FR_I	IDT France Input VAT Code
<b>IDT_FR_I_NR</b>	<b>IDT France Input VAT Code (Non-Recovera...</b>
IDT_FR_O	IDT France Output VAT Code
IDT_GA_P	IDT Georgia Use Tax Code
IDT_GA_S	IDT Georgia Sales Tax Code
IDT_GB_I	IDT United Kingdom Input VAT Code
IDT_GB_I_NR	IDT United Kingdom Input VAT Code (Non...
IDT_GB_O	IDT United Kingdom Output VAT Code
IDT_GST_P	IDT Canada GST Purchase Tax Code
IDT_GST_S	IDT Canada GST Sales Tax Code
IDT_GU_P	IDT Guam Use Tax Code
IDT_GU_S	IDT Guam Sales Tax Code
IDT_HI_P	IDT Hawaii Use Tax Code
IDT_HI_S	IDT Hawaii Sales Tax Code

Sales tax code: IDT\_FR\_I

Name: IDT France Input VAT Code (Non-f

Sales tax jurisdiction code:

Percentage/Amount: 0.00000

**General**

**Currency**

Currency: EUR

**Packing duty**

Sort code:

**Conditional sales tax**

Payment sales tax code:

**Invoicing**

Print: Print code

**References**

Settlement period: IDT

**Negative sales tax percentage**

Ledger posting group: IDT\_NR

Negative sales tax percentage:

Code that identifies the sales tax.

Close



Ledger posting groups may be added, and assigned to the non-recoverable Sales tax codes, for each country if posting by country is desired.

Ledger posting groups (1 - frsi)

File New Delete

Ledger p...	Description
EXONERE	Exonere TVA
IDT	IDT Ledger Posting Group
IDT_NF	IDT NOT FOUND posting group
IDT_NR	IDT Non-Recoverable VAT
IDT_VAR	IDT Tax Variance
TVA19.6	TVA 19.6
TVA2.1	TVA 2.1
TVA5.5	TVA 5.5
TVA7.0	TVA 7.0

Ledger posting group: IDT\_NR

Description: IDT Non-Recoverable VAT

**General**

**Posting**

Sales tax payable: 202801

Sales tax receivable: 130811

Use tax expense: 602811

Use tax payable: 202811

Settlement account: 202821

**Cash discount posting**

Vendor cash discount: 520100

Customer cash discount: 403160

Name of ledger posting group for sales tax.

Close



# CALCULATING SALES TAX

Once ONESOURCE Indirect Tax Integration for Dynamics AX and ONESOURCE Indirect Tax Determination are installed and configured, taxes for sales transactions are calculated seamlessly. This section provides an overview of some of the common business processes executed with Determination.

This chapter contains the following topics to help you get started calculating and viewing sales tax with Determination:


Addresses Used for Tax Calculation .....	61
Sales Documents .....	62
Free Text Invoices .....	66
Project Invoices .....	67

## ADDRESSES USED FOR TAX CALCULATION

The ship from address used by Determination to calculate tax will be one of the following locations (listed in order of priority):

1. The address of the Warehouse that has a **Purpose of Primary**.
2. The address of the Site that has a **Purpose of Primary**.
3. The primary address of the Legal entity (company) will be selected if there are no Warehouse or Site addresses with a **Purpose of Primary**.
4. For direct delivery shipments (drop shipments), the ship from address is sourced from the vendor's ship from address on the associated Purchase Order and Line Warehouse address. Direct delivery orders are triggered when the **Delivery Type** field on the **Delivery** tab of the Sales Order line is selected.

The ship to address used by Determination to calculate tax will be the address displayed on the **Address** tab for the sales order line. The supply address, as used by Determination, will be also be sourced from the **Address** tab.



Dynamics AX offers both header level and line level credits. However, both credit levels use the header address as the ship to address by default. Review the ship to addresses for the header and line level credits prior to posting the credit to ensure an accurate tax calculation.

## SALES DOCUMENTS

During sales order processing, Determination is called to calculate tax for your sales documents. The following example describes a Sales Order, but the process for Sales Quotes, Journals, Return Orders, Credit Notes, and Invoices is similar.

1. Go to **Accounts receivable > Common > Sales orders > All sales orders**.
2. Open a **Sales order**.
3. Select a **Sales order line**.
4. Go to the **Line details** tab.

5. Verify the following:

- **Sales tax group** is set to one of the following:
  - **IDT** for a default sales transaction.
  - **IDT\_EX\_\*\*** for a default tax calculation of exempt when a customer claims to be exempt, but an exemption certificate is not yet configured in Determination. The "\*\*\*" refers to a specific reason for the exemption. See the *Sales Tax Exempt Codes* table in [Appendix B - ONESOURCE-Specific Tax Groups and Tax Codes \(page 97\)](#) for more information.
  - **IDT\_OVRDE** to calculate tax on single line exemptions where the entity is usually exempt. This option is used when a customer has a tax-exempt certificate maintained in Determination, but you wish to override the exemption and charge tax for a particular line item. For example, you sell two items to a customer who holds a reseller's certificate. Normally, all transaction lines default to exempt. However, if one of the items in this sale is intended for the customer's own consumption, the sale of that item would not qualify for a resale exemption. To override the default taxability for this line, you can set the **Sales tax group** to **IDT\_OVRDE** to calculate tax for the item.
- **Item sales tax group** is set to **IDT** in the following image.

The screenshot shows the 'Sales order (1 - usmf) - Sales order: 004260, Pelican Wholesales' form. The 'Sales tax' section is highlighted with a red box, showing the following values:

Sales tax	
Sales tax group:	IDT
Item sales tax group:	IDT

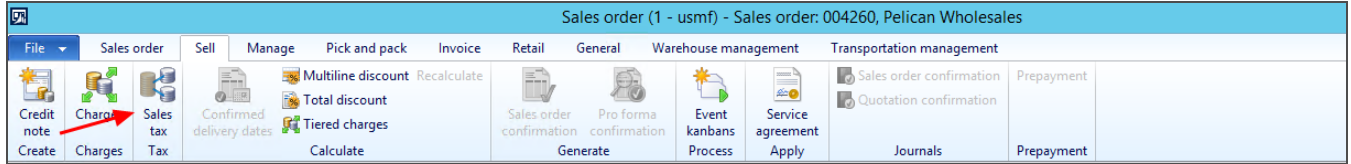
The 'Sales order lines' section shows a single line item with the following details:

Type	Variant number	Item number	Product name	Sales category	CW quantity	CW unit	Quantity	Unit	CW deliver now	Adjusted unit price	Site	Warehouse	Location	License plate
		A0001	HDMI 6' Cables				1.00	Pcs		0.00000	2	24	BULK-001	

The 'Line details' section shows the following information:

Inventory		Returned order	
Lot ID:	016511	Scrap:	<input type="checkbox"/>
Reservation:	Manual	Return cost price:	0.00

6. Select **Sales tax** on the **Sell** ribbon (**Quotation** ribbon for quotes). Tax is calculated on the entire order.



You do not need to select **Sales tax** to view taxes before saving a sales document. Tax is calculated automatically when the document is saved.



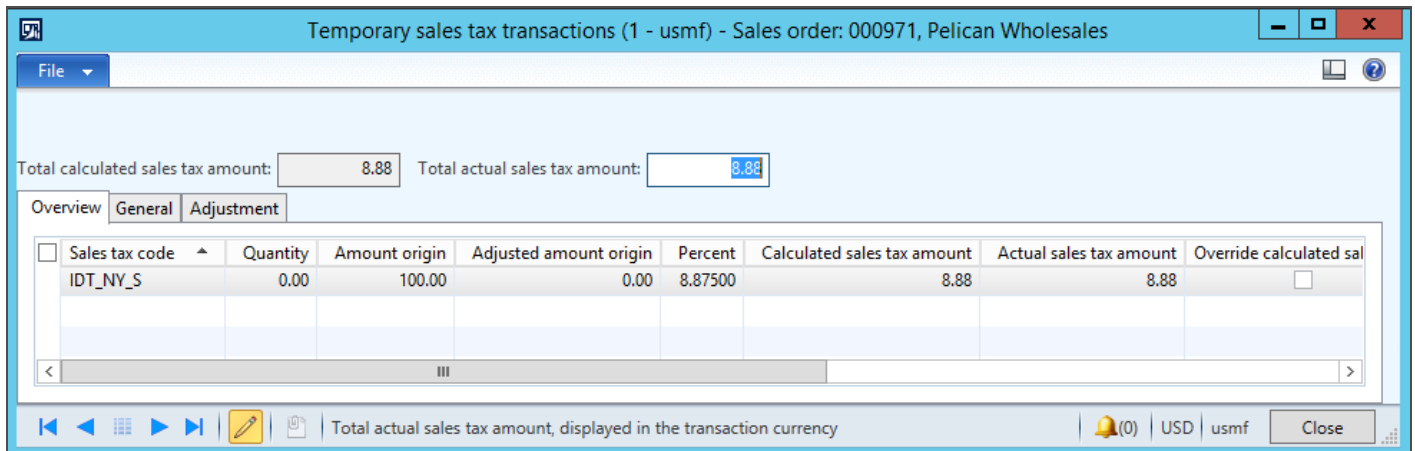
To view taxes by document line, select the **Financials > Sales tax** menu option.



Exemptions on header charges may be managed by updating the Sales tax group on the header charge.

## Temporary Sales Tax Transactions

The quantity field will be "0" on each temporary tax line as shown in the following screenshot. However, the quantity for the line is considered in the tax calculation. In some cases, where a reduced basis is used by Determination to calculate the tax amount, the **Amount origin** multiplied by the tax rate may not equal the **Calculated sales tax amount**.



## Entering Credit Memos

When entering credit memos, enter the **Invoice date** of the original invoice you are crediting to ensure that you receive a tax result consistent with the original invoice.

## Entering Return Orders

Return orders are created using the standard AX 2012 procedure. If the tax on the original order was calculated by Determination, the tax on the return order will also be calculated by Determination. No additional steps are required.

1. Go to **Sales and Marketing > Common > Return Orders > All Return Orders**.
2. To open the **Return Order** form, create a new Return Order.
3. Select **Find Sales Order** on the **Return Order** ribbon menu.
4. Select the original Sales Order and line(s) to return and then select **OK**.
5. Select the line(s) and then select **Registration** from the **Update Line** menu.
6. Enter and post the registration, then select **OK** to close the **Registration** form.
7. Generate the packing slip by selecting **Packing Slip** from the **Generate** ribbon menu, then post and print the packing slip.
8. Process the credit memo created at **Sales and Marketing > Common > Sales Orders > All Sales Orders**. Tax will be calculated by Determination for the credit memo.

## Tax Calculation on Header and Line Charges

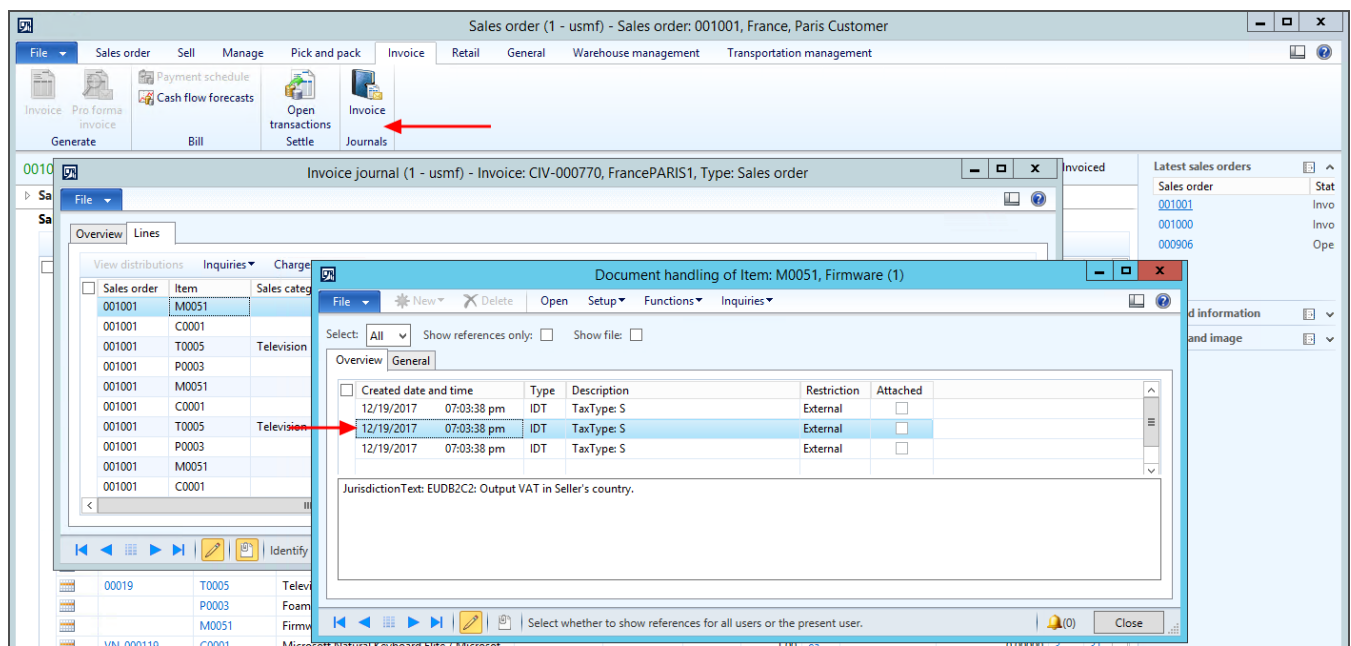
ONESOURCE Determination calculates tax for both header and line charges. Header charges are displayed as their own row in the **Temporary sales tax transactions** form. Tax is calculated using the header characteristics, such as the header delivery address, and the values for the Item sales group and IDT product code on the charge code.

Taxes for line-level charges are calculated using the addresses for the line they are associated with, and the IDT product tax code set for the charge code. The tax for the line charge is summarized with taxes for the item as a single row on the **Temporary sales tax transactions** form.

## Viewing Invoice Descriptions and Jurisdictional Text for Customer Invoices

VAT-related invoice descriptions, jurisdictional text, and relevant registrations for printing on customer invoices are accessed from the **Invoice Journal** form for each Sales Order and line.

1. Go to **Accounts Receivable > Sales Order**.
2. Select a Sales Order.
3. Select the **Invoice Journals** ribbon menu option on the **Sales Order** form.
4. From the **Invoice Journal** screen, select a line and then select the **Document Handling** button to open the **Document Handling** form to view the invoice citations shown in the following image.



## FREE TEXT INVOICES

1. Go to **Accounts receivable > Common > Free text invoices > All free text invoices**.
2. Open a **Free text invoice**.
3. Verify that the **Sales tax group** is set to **IDT** (or one of the groups that begins with **IDT\_**).



- Verify that the **Item sales tax group** is set to **IDT**.

Free text invoice (1 - usmf) - Invoice: FTI-000031, US-013

FTI-000031 : US-013 - Pelican Wholesales

**Free text invoice header**

**Invoice lines**

Description	Main account	Sales tax group	Item sales tax group	Quantity	Unit price	Amount
	222100	IDT	IDT	1.00	75.00	75.00

Contact information and Recent activity are visible on the right sidebar.

- Select **Sales tax** on the **Invoice** ribbon.



When entering a new **Free text invoice**, confirm your ship to address at the header level and enter your header level charges before calculating sales tax.



The document number sent to ONESOURCE Determination for a Free text invoice is an internal system number, not the invoice number. Take this into consideration when reconciling your Dynamics AX invoices against your ONESOURCE Determination Audit transactions.

## Viewing Invoice Citations for Free Text Invoices

- Go to **Accounts Receivable > All Free Text Invoices**.
- Select an invoice.
- Select the **Invoice Journals** menu option in the **Related Information** group.
- Select the **Lines** tab of the **Invoice Journal** form and select a line.
- Select the **Document Handling** button at the bottom of the **Invoice Journal** form.

## PROJECT INVOICES

During the project invoicing process, Determination is called to calculate tax for your sales documents. The standard project invoicing process is not altered by the use of IDT, however, the IDT code must be specified for the Sales tax group and Item sales tax group for Sales Orders and On-account transactions.



Project transaction types of Sales Order, On-account and customer advance on Time and Material type projects are supported as of the 1.2.0.0 release. Project transaction types of Hour, Expense, Item and Fee are not supported by ONESOURCE.

## Specifying a Project to Use ONESOURCE to Calculate Tax on Related Transactions

1. Go to **Project Management and Accounting > Common > Projects > All Projects** and open a project.
2. Open the **Setup** tab for the project and set **Sales tax group** to **IDT**.

The screenshot displays the 'Projects (1 - usmf) - Project ID: 000057, Budget stereo install' window. The 'Setup' tab is active, showing various configuration options. A red arrow points to the 'Sales tax group' dropdown menu, which is set to 'IDT'.

**Project Information:**

- Project ID: 000057
- Project name: Budget stereo install
- Project group: TM
- Project type: Time and material
- Project stage: In process
- Customer: 000057
- Account: US-023
- E-mail:

**Responsible:**

- Sales manager:
- Project manager:
- Project controller:

**Dates:**

- Date of creation: 12/3/2012
- Projected start date:
- Actual start date:
- Projected end date:
- Extension date:
- Actual end date:

**Project team and scheduling:**

- Not staffed
- 12/3/2012 | 12/3/2012

**Setup:**

- Require activity on forecast:**
  - Hour: ☐
  - Expense: ☐
  - Item: ☐
- Require activity on journals:**
  - Hour: ☐
  - Expense: ☐
  - Item: ☐
- Timesheet:**
  - Minimum time increment: 0.00
- Other information:**
  - Ledger posting sort priority: Category
  - Sales tax group: IDT (indicated by a red arrow)
  - Sales price group:
  - Enable category validation: ☒
  - Fixed asset number:

**Item tasks:**

- Item requirements (0)
- Project sales orders (0)
- Project purchase orders (0)
- Project production orders (0)
- Purchase requisitions (0)
- Requests for quotations (0)
- Resource scheduling (0)
- Invoice (0)
- Actual costs (0)
- Actual cash flow (0)
- Project transactions (0)

**Footer:**

- Default sales tax group with invoicing.
- USD | usmf
- Close

## Specifying ONESOURCE to Calculate Tax on a Project Sales Order

1. Go to **Project Management and Accounting > Common > Item Tasks > Project Sales Orders**.
2. Create a new Sales Order and enter at least one sales order line
3. Go to the **Setup** tab for the line and confirm that **IDT** is specified for **Sales tax group** and **Item sales tax group**.

**Sales order (1 - usmf) - Sales order: 000778, Owl Wholesales**

**Sales order header**

**Sales order lines**

CW quantity	CW unit	Quantity	Unit	CW deliver now	Adjusted unit price	Site	Warehouse	Unit price	Discount	Discou
		1.00	Pcs		0.00000	1	11	100.00		

**Line details**

**Inventory**  
 Lot ID: 012322  
 Reservation: Manual  
 Auto batch reservation: ☐  
 Same batch selection: ☐

**Returned order**  
 Scrap: ☐  
 Return cost price: 0.00  
 Return lot ID:  
**Posting**  
 Main account:

**Sales tax**  
 Sales tax group: IDT  
 Item sales tax group: IDT

**Commission**  
 Sales group: 01

**Date and time**  
 Created date and time: 9/13/2017 06:06:52 pm

**General Setup Address Product Packing Delivery Price and discount Project Foreign trade Financial dimensions Loads**

Toggle the form between view and edit modes

USD usmf Close

## Specifying ONESOURCE to Calculate Tax on a Project On-account and Customer Advance Transaction

1. Go to **Project Management and Accounting > Common > Projects > All Projects** and open a Project.
2. Create a new On-account transaction.
3. Go to the **General** tab and confirm that **IDT** is specified for the **Sales tax group** and **Item sales tax group**.

The screenshot shows the 'On-account (1 - usmf) - Project ID: 000057, 9/13/2017' form. The 'General' tab is selected, displaying various fields for transaction identification and pricing. A red box highlights the 'Project - sales tax' section, which contains two dropdown menus: 'Sales tax group' and 'Item sales tax group', both of which are set to 'IDT'. Other visible fields include 'Project date' (9/13/2017), 'Project ID' (000057), 'Transaction ID' (000591), 'Sales currency' (USD), and 'Sales price' (500.00).

## Viewing Invoice Descriptions and Jurisdictional Text for Project Invoices

VAT-related invoice descriptions, jurisdictional text, and relevant registrations for printing on customer invoices are accessed from the **Invoice Journal** form for each Project Invoice and line.

1. Go to **Project Management and Accounting > All Projects**.
2. Select and open a Project.
3. Select the **Invoice Journals** menu option from the **Manage group** ribbon menu option.
4. Select the **On-account** or **Sales Order** tab on the **Invoice Journals** form and then select a line.

5. Select the **Document handling** icon on the bottom of the **Invoice Journals** form to open the **Document Handling** form and view messages.



# CALCULATING USE TAX

Once ONESOURCE Indirect Tax Integration for Dynamics AX and ONESOURCE Indirect Tax Determination are installed and configured, taxes for purchase transactions are calculated seamlessly. This section provides an overview of some of the common business processes executed with Determination.

This chapter contains the following topics to help you get started calculating and viewing use tax with Determination:

Addresses Used for Tax Calculation .....	73
Purchase Orders and Vendor Invoices .....	74
Capture Vendor Charged Tax on Vendor Invoices .....	75
VAT Variances on Vendor Invoices .....	77
Purchase Requisitions .....	79
Request for Quotations .....	80
Vendor Invoice Journals .....	81
Vendor Invoice Pool Excluding Posting Details .....	82
Invoice Registers .....	82

## ADDRESSES USED FOR TAX CALCULATION

The vendor ship from address used by Determination to calculate use tax will be sourced in the following order of precedence:

1. The vendor address designated as Delivery and Primary.
2. The vendor address designated as Delivery and not Primary (the first address is selected if multiple addresses exist).
3. The vendor address designated as Primary when no delivery address exists.

The ship to address used by Determination to calculate use tax will be the delivery address listed on the **Address** tab of the line details.

## PURCHASE ORDERS AND VENDOR INVOICES

During purchase order and invoice processing, Determination is called to calculate tax for your purchasing documents. The following example describes a Purchase order, but the process for Vendor invoices is similar. The process to view tax on these documents is the same as native AX.

1. Go to **Accounts payable > Common > Purchase orders > All purchase orders**.
2. Open a **Purchase order**.
3. Select a **Purchase order line**.
4. Go to the **Line details** tab.
5. Verify the following:
  - **Sales tax group** is set to **IDT** or one of the groups that begins with **IDT\_**.
  - **Item sales tax group** is set to **IDT**.

**Purchase order (1 - usmf) - Purchase order: 009138, Acme Office Supplies**

**Purchase order header**

**Purchase order lines**

Type	Budget check r...	Line num...	Item num...	Product na...	Procurement cat...	Variant nu...	Site	Wareho...	CW qua
		1	A0001	HDMI 6' Cables			1	11	

**Line details**

**Inventory**

Lot ID: 036511

**Sales tax**

Item sales tax group: IDT

Sales tax group: IDT

1099 amount: 0.00

State/province:

1099 state amount: 0.00

**Totals**

Currency:

Line discount: 0.00

**Subtotal amou...** 0.00

Total discount: 0.00

Charges: 0.00

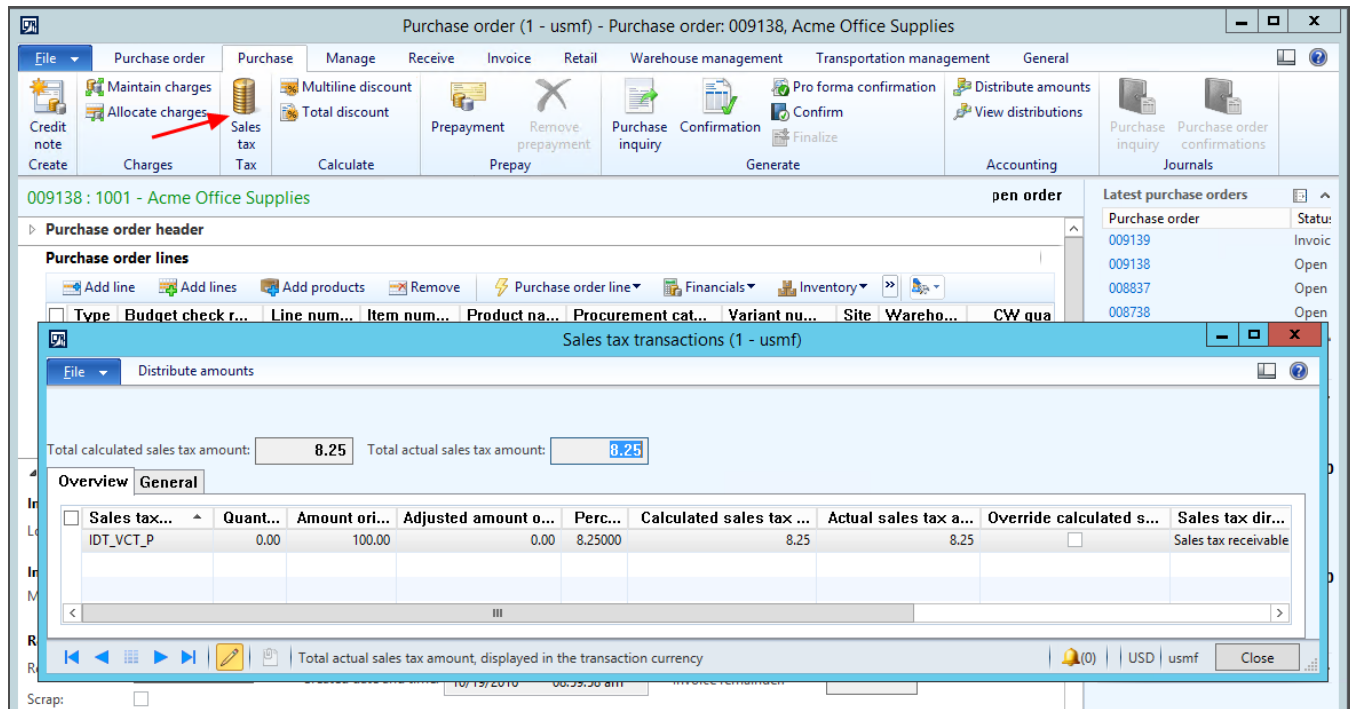
Sales tax: 0.00

Round-off: 0.00

**Total amount: 0.00**



6. Select **Sales tax** on the **Purchase** ribbon. Tax is calculated on the entire Purchase order.



To view taxes by document line, go to the **Financials > Sales tax** menu option.



You do not need to select the **Sales tax** button to view taxes before saving a sales document. Tax is calculated automatically when the document is saved.



If a new line is added to the invoice that was not on the original PO AX will default to the original delivery address. You must update the delivery address on the **Address** tab of the line details section.

## CAPTURE VENDOR CHARGED TAX ON VENDOR INVOICES

The ONESOURCE integration has the ability to record the vendor charged tax (VCT) on vendor invoices and accrue the difference between the VCT and the tax as calculated by ONESOURCE Determination.

1. Go to **Accounts payable > Common > Vendor invoices > Open vendor invoices** and open a new **Vendor invoice**.
2. Enter the invoice header information and add at least one taxable line.

- Click **Sales tax** on the **Financials** tab of the form ribbon menu to calculate and display taxes on the **Sales tax transactions** form.
- Enter the VCT in the **Total actual sales tax amount** field.
- Click **Apply** on the **Adjustment** tab.

Vendor invoice (1 - usmf) - Name: Acme Office Supplies

Default quantity for lines: Product receipt quantity

INV-8799 : Acme Office Supplies

**Vendor invoice header**

**Vendor**  
 Invoice account: 1001  
 Acme Office Supplies

**Related documents**  
 Purchase order:   
 Add another purchase order

**Invoice status details**  
 Prepayment: ☐  
 On hold: ☐  
 Match variance: ☒  
 Header budget check results:

**Invoice identification**  
 Number: INV-8799  
 Invoice description:

**Invoice dates**

**Sales tax transactions (1 - usmf) - Name: Acme Office Supplies**

Total calculated sales tax amount: 8.17 Total actual sales tax amount: 8.00

**Adjustment**

Sales tax co...	Sales tax direction	Currency	Amount orig...	Adjusted amount o...	Calculated sales tax charge	Actual sales tax char...	Calculated sales tax a...	Actual sales tax amount
IDT_ACC_P	Use tax	USD	0.00	0.00	0.00	0.00	0.00	0.17
IDT_VCT_P	Sales tax receivable	USD	99.00	0.00	0.00	0.00	8.17	8.00

**Apply** **Reset actuals to calculated**

Save and apply the adjusted sales tax amounts

**Sales tax** **Reasons**

View or change the calculated sales tax for the invoice



Note that the ONESOURCE integration has created a second line to represent the difference, or accrual, between the VCT and the tax calculated by Determination. The amounts for the accrual are displayed as positive on the **Adjustments** tab for both positive and negative accrual amounts.



Accruals are not created for invoices that include Canadian taxes.

- Close the **Sales tax transactions** form.

## VAT Variances on Vendor Invoices

When processing your payables invoices, you may find that you have received a Vendor invoice with a tax amount that is inaccurate for various reasons. The reasons could include a reduced rate that is not applied, an exemption not noted, or a failure to apply tax.

The **On hold** checkbox on the **Vendor invoice** form is used by the integration to prevent payments from being processed on Vendor invoices and to prevent funds from inadvertently leaving the company. On hold status is triggered when the total tax calculated by Determination differs from the total tax entered manually using the tax shown on the Vendor invoice.

If the On hold status is overridden, the calculated tax will be offset in the General ledger posting by the amount it differs from the amount entered as Tax on the Vendor invoice. Calculated Tax is always posted to the general ledger based on your account configurations. However, should it differ from the amount charged by a vendor the transaction would not settle at the correct amount. Therefore, a balancing entry is made effectively accruing the difference.

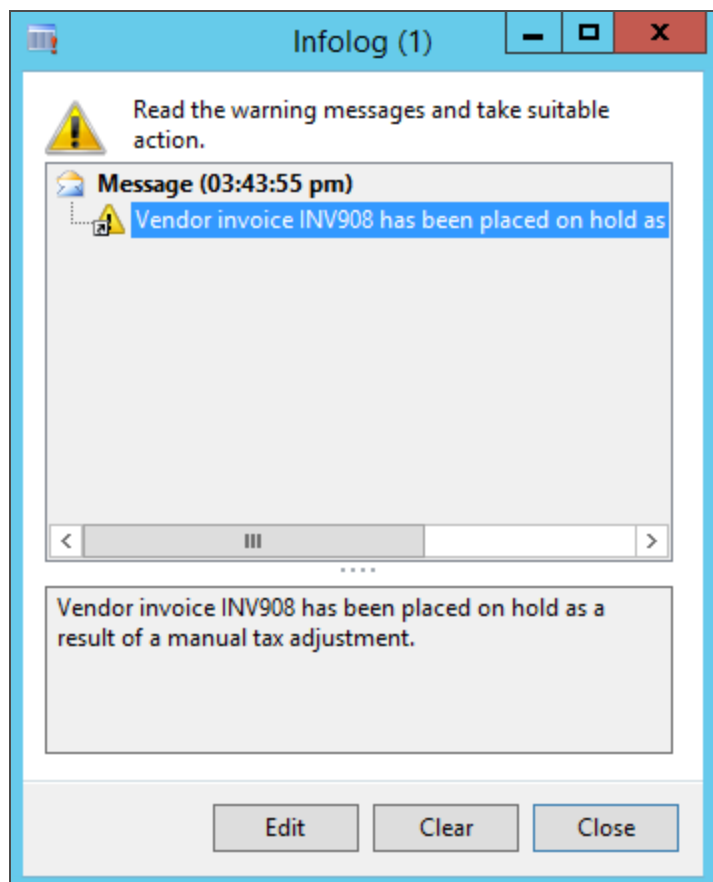
In the following example a vendor charged €44.02 tax on their invoice. The tax, as calculated by ONESOURCE, was €0.00 creating a tax variance of €44.02. This variance is represented by the **IDT\_VARIANCE** line on the **Sales tax transaction** form seen below.

Sales tax code	Quantity	Amount origin	Adjusted amount origin	Percent	Calculated sales tax amount	Actual sales tax amount	Override calculated sales tax	Sales tax direction	Exempt
IDT_IT_I	0.00	200.12	0.00	22.000000	44.02	44.02	<input type="checkbox"/>	Sales tax receivable	<input type="checkbox"/>
IDT_IT_O	0.00	200.12	0.00	22.000000	-44.02	-44.02	<input type="checkbox"/>	Sales tax receivable	<input type="checkbox"/>
IDT_VARIANCE	0.00	200.12	0.00	44.020000	44.02	44.02	<input type="checkbox"/>	Sales tax receivable	<input type="checkbox"/>



Note that the ONESOURCE integration has created a second line to represent the variance between the VCT and the tax calculated by Determination. The amount of the variance is displayed as positive on the **Adjustments** tab for both positive and negative variance amounts.

The invoice will be put on hold, pending resolution, and an Infolog warning will be displayed as seen in the following screen shot. You will not be able to post the invoice until the hold is cleared.



The General ledger postings for the variance are controlled by the Ledger account assigned to the **IDT\_VARIANCE** Sales tax code. In this example, the variance is posted to main account **130813**.

Voucher transactions (1 - usmf) - Journal number: 014135, 1/9/2018

Journal number	Voucher	Date	Year closed	Ledger account	Currency	Amount in transaction currency	Amount	Amount in reporting currency	Posting layer
014135	PIV-110000...	1/9/2018	<input type="checkbox"/>	200100--023	EUR	-244.14	241.19	-241.19	Current
014135	PIV-110000...	1/9/2018	<input type="checkbox"/>	130810--023	EUR	0.00	0.00	0.00	Current
014135	PIV-110000...	1/9/2018	<input type="checkbox"/>	130813--023	EUR	44.02	43.49	43.49	Current
014135	PIV-110000...	1/9/2018	<input type="checkbox"/>	140200--023	USD	197.70	197.70	197.70	Current
014135	PIV-110000...	1/9/2018	<input type="checkbox"/>	600180--023--TV&Video	USD	-197.70	197.70	-197.70	Current
014135	PIV-110000...	1/9/2018	<input type="checkbox"/>	600180--023--TV&Video	EUR	200.12	197.70	197.70	Current

Description: Vendor invoice      Posting type: Sales tax

Account name: IDT Sales Tax Receivable Variance

The account number, including financial dimensions

Close

## PURCHASE REQUISITIONS

ONESOURCE may be used to calculate tax on purchase quotations. As with other documents, it is mandatory to set the **Item sales tax group** and **Sales tax group** to **IDT** on the **Details fast** tab for each line item.

1. Go to **Procurement and sourcing > Common > Purchase requisitions > All purchase requisitions**.
2. Open a **Purchase requisition**.
3. Select a line on the requisition and click **Details** for the line.
4. Open the **Details** tab and verify the following:
  - **Item sales tax group** is set to **IDT**.
  - **Sales tax group** is set to **IDT**.

The screenshot displays the 'Purchase requisition review' window in Microsoft Dynamics AX. The title bar indicates the requisition number 002141 and its associated requisition number 34322. The 'Details' tab is selected, showing various fields for the requisition line. The 'Sales tax' section is highlighted with a red box, showing the 'Item sales tax group' and 'Sales tax group' both set to 'IDT'. The 'References' section shows fields for RFQ, Consolidation opportunity, Purchase order, Invoice, and Purchase agreement. The 'Delivery terms' section has a checkbox for 'Accept partial delivery'. The 'Prepayment' section has a checkbox for 'Prepayment required' and a text field for 'Prepayment details'. The 'Purchase order creation' section has a dropdown for 'Price/discount transfer' set to 'Use policy' and a text field for 'Policy: Only if no trade agreement'. The 'Address' field at the bottom is set to 'Bordeauxentrepôt'.

5. Select **Sales tax** from the **Financials** menu item for the lines to view tax for the line on the requisition.

## REQUEST FOR QUOTATIONS

The ONESOURCE integration calculates tax on the **Request for quotations reply** (RFQ). After the RFQ has been entered and published to the vendor portal, a **Request for quotation reply** may be created.

1. Go to **Procurement and sourcing > Common > Requests for quotations > All requests for quotations**.
2. Select an RFQ and select **Enter reply** from the **Quotation** tab on the **Form** ribbon menu.
3. Select **Edit** on the **Reply** tab of the **Form** ribbon menu, make any changes, and then select **Accept** on the **Reply** tab.
4. Select **Totals** on the **Reply** tab of the ribbon menu to view the calculated sales tax.

Request for quotation reply (1 - usmf) - Case ID: 002910, Eric Larsen

File | Reply | General

Edit | Return | Accept | Reject | Copy data to reply | **Totals** | Manage charges | Request for quotation journals | Refresh | Export to Microsoft Excel List | Attachments

001813 : Acme Office Supplies

Document title: RFQ - G  
Solicitation type: Open  
Bid type: No  
Bid sealed: No  
Buyer group: Eric Larsen  
Requester: en-us  
Language: 1001  
Vendor account: 10/27/2010  
Submission date and time: 10/27/2010  
Bid submitter: test

Reason  
Reason: test  
Reason comment: test

**Purchase quotation lines**

Add line | Remove

Product name  
HDMI 6' Cables

**Totals (1 - usmf) - Request for quotation: 001813, Request for quotation: 001813**

View purchase order totals - Vendor:

Update: [Date Picker]

**Data**

Quantity: 1.00  
Weight: 0.00  
CW quantity:  
Volume: 0.00

**Vendor**

Credit limit: 0.00  
Credit available: 0.00

**Totals**

Exchange rate: 1.0000 USD  
Line discount: 0.00  
Subtotal amount: 100.00  
Total discount: 0.00  
Charges: 0.00  
Sales tax: 8.25  
Round-off: 0.00  
Total amount: 108.25  
Cash discount: 0.00

OK

Item on hand  
Unit: Pcs  
Available physical: 5,019,989.0  
Available for reservation: 5,019,969.0  
Total available: 5,020,152.0

**Totals**  
**Status details**

Quotation  
Bid scoring  
Questionnaires  
Address

Shows the totals of the order for volume (quantity, weight, and cubic content), discounts, sales tax, charges, and so on | USD | usmf | Close

## VENDOR INVOICE JOURNALS

ONESOURCE can calculate tax on **Vendor invoice journals**. As with other documents, it is mandatory to set the **Items sales tax group** and **Sales tax group** to **IDT** for each line item.

1. Go to **Accounts Payable > Journals > Invoice journal**.
2. Open an **Invoice journal**.
3. Select a line and confirm that the following on lower half of the form or on the **General** tab:
  - a. **Item sales tax group** is set to **IDT**.
  - b. **Sales tax group** is set to **IDT**.

Journal voucher (1 - usmf) - Journal: WFAPINV, journal batch number: 00460, Posted: NoJournal type: Vendor invoice recording

File New Delete Post Validate Financial dimensions Approval Sales tax Period journal Functions Inquiries Print

**Balance** Total debit Total credit Budget check results

Journal: 0.00 Journal: 1.00 Journal: 1.00 Per voucher: 0.00 Per voucher: 1.00 Per voucher: 1.00

Overview General Cash discount Invoice Fixed assets Remittance History 1099

Date	Voucher	Account type	Account	Invoice	Description	Debit	Credit	Offset account type	Offset account
7/8/2015	USMF-APIN000...	Vendor	1001	178766		1.00		Ledger	606300-001----

**Invoice** Terms of payment: Net30 Due date: 8/7/2015 Payment ID: Tax exempt number:

**Sales tax** Sales tax group: IDT Item sales tax group: IDT Calculated sales tax amount: 0.10 Actual sales tax amount: 0.10

**Cash discount** Cash discount: 0.5%D10 Cash discount date: 7/18/2015 Cash discount amount: 0.01

**Document** Document: Document date: Account name: Acme Office Supplies Offset account name: Office Supplies Expense

Currency: USD

Posting date

4. Select the **Sales tax** menu item at the top of the form to view sales tax results.

## VENDOR INVOICE POOL EXCLUDING POSTING DETAILS

There is no form to view tax results from this form. However, the Item sales tax group and Sales tax group codes may be set to IDT so that tax is calculated by ONESOURCE Determination upon transferring the vendor invoice to a journal for posting.

1. Go to **Accounts payable > Journals > Invoices > Vendor Invoice pool excluding posting details**.
2. Select an invoice and click the **General** Tab.
3. Confirm the following:
  - a. **Item sales tax group** is set to **IDT**.
  - b. **Sales tax group** is set to **IDT**.

Vendor invoice pool excluding posting details (1 - usmf)

File

Overview General Invoice Cash discount Remittance History 1099

Financial dimensions

Print

**Posting**

Company accounts: usmf

Account type: Vendor

Account: 1001

Document title:

Posting profile: GEN

**Offset account**

Offset company accounts: usmf

Offset account type: Ledger

Offset account: 606300 - 001

Offset-transaction text:

**Sales tax**

Sales tax group: IDT

Item sales tax group: IDT

Sales tax direction:

Debit:

Credit: 100.00

Currency: USD

Exchange rate: 1.0000

Secondary exchange rate: 0.0000

**Description**

Cross rate: 1.0000

Calculation method: USD - USD

Sales tax group for automatic tax.

USD usmf Close

## INVOICE REGISTERS

ONESOURCE may be used to calculate tax on **Invoice registers**. As with other documents, it is mandatory to set **Item sales tax group** and **Sales tax group** to **IDT** for each line item.

1. Go to **Accounts payable > Journals > Invoice register**.
2. Open an **Invoice register**.



3. Select a line and confirm that the following on the following on the line
  - a. **Item sales tax group** is set to **IDT**.
  - b. **Sales tax group** is set to **IDT**.

Journal voucher (1 - usmf) - Journal: APlnvReg, journal batch number: 00479, Posted: NoJournal type: Invoice register

File New Delete Post Validate Financial dimensions Sales tax Functions Inquiries Print

**Balance**

Journal: 0.00 Journal: 100.00 Journal: 100.00

Per voucher: 0.00 Per voucher: 100.00 Per voucher: 100.00

**Budget check results**

Per voucher:

Overview General Cash discount Remittance History Invoice information 1099 Invoice

Date	Voucher	Account	Invoice	Description	Debit	Credit	Sales tax group	Item sales tax group	Transfer
8/16	APIR000...	1001	8-18	test #1		100.00	IDT	IDT	

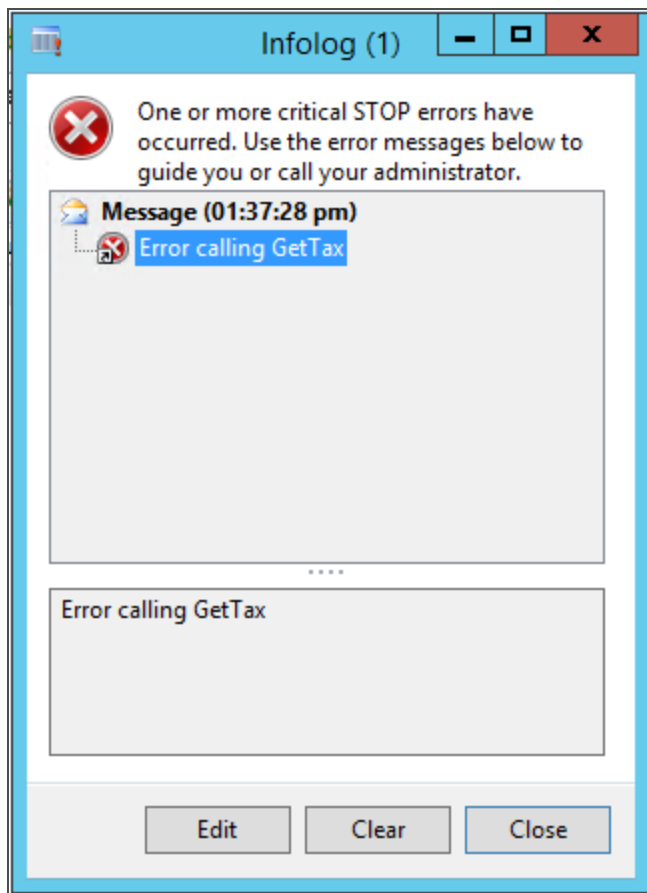
4. These two values may also be confirmed on the **General** tab for the line.
5. Select the **Sales tax** menu item at the top of the form to view sales tax results.



# TAX CALCULATION ERRORS

When a transaction generates a tax calculation error, a Dynamics AX Infolog dialog box is displayed. The cause of the error is listed in the lower pane of the form.

For example, the error in the following screen shot is caused by failure of the connection between Dynamics AX and the ONESOURCE Indirect Tax Determination system. Other errors may be caused by missing data that is required to calculate tax.



## RECALCULATE TAX ON TRANSACTIONS WITH CALCULATION ERRORS

The **ONESOURCE IDT Tax Errors** form lists unposted transactions where tax calculation failed due to missing or invalid information. To access this form, go to **General Ledger > Setup > Sales Tax > ONESOURCE IDT Tax Errors**.

From the **ONESOURCE IDT Tax Errors** form you can do the following:

- View error details including the text of the error, the document that generated it, when it occurred, and who submitted the transaction.
- Rerun the tax calculation by selecting the document you wish to recalculate and selecting **Recalculate**.

## Recalculate Tax on Transactions with Calculation Errors

Once tax has successfully been calculated on a transaction it is removed from the list.

ONESOURCE IDT Tax Errors (1 - usmf)

File

Recalculate

IDT Document number	IDT Document Types	IDT Last run date	IDT Error code	IDT Error description	Created by
001961	Invoice	9/23/2015 12:00:00 am	test invoice error	test error desc 3	?
003460	Sales Order	10/8/2015 11:11:47 am	GCSG2	Seller must be registered to collect GST. Authority: Canada	?
003460	Sales Order	10/8/2015 05:29:24 pm	GCSG2	Seller must be registered to collect GST. Authority: Canada	dhai
003460	Sales Order	10/9/2015 09:04:02 am	GCSG2	Seller must be registered to collect GST. Authority: Canada	jbea
003460	Sales Order	10/9/2015 09:04:34 am	GCSG2	Seller must be registered to collect GST. Authority: Canada	jbea
003164	Sales Order	10/9/2015 12:41:23 pm	NO_ZONE_TREE_MATCH	No Matching Zone Tree was found. Address: : UNITED STAT...	jbea
003360	Sales Order	10/9/2015 01:49:05 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:54:36 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:56:41 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:02 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:10 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:17 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:18 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:24 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:25 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:31 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:34 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:42 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/9/2015 03:57:46 pm	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
003360	Sales Order	10/12/2015 08:58:14 am	GCSG2	Seller must be registered to collect HST. Authority: Ontario H...	ema
35637164095	FreeText Invoice	11/11/2015 02:24:49 pm	FAILED_TO_CALCULATE_T...	Per calculation of the input data, no tax result is returned.	Mali
35637164095	FreeText Invoice	11/16/2015 03:42:24 pm	FAILED_TO_CALCULATE_T...	Per calculation of the input data, no tax result is returned.	Mali

III

Recalculate tax for the selected document

USD usmf

Close




# USING THE ADDRESS VALIDATION SERVICE

For the most accurate US tax calculation, Determination requires complete and valid address information including the ZIP+4. The ONESOURCE Address Validation Service helps you maintain your addresses.

This chapter contains the following topics to help you use the address validation service:

Trigger Address Validation .....	89
Validate an Address .....	89


 Address validation will only be performed for addresses with a **Country Code** of **US**. Canadian and other non-US addresses are not supported by the ONESOURCE Address Validation Service.

## TRIGGER ADDRESS VALIDATION

When address validation is enabled (see [Configure the IDT Parameters \(page 29\)](#)), you are given the option to validate addresses each time you create a new address or edit an existing US address for transactions where tax will be calculated by Determination.

The following events will trigger address validation:

- Adding a new address
- Changing an existing address

 Once an address is validated, it will not be re-validated unless it is updated.

## VALIDATE AN ADDRESS

The following example walks you through the process for adding an address to a customer, and then sending the address to Determination for validation.

1. Go to **Accounts receivable > Common > Customers > All customers**.
2. Select a customer, then select **Edit** (You can also double-click the customer record with a mouse.).
3. Select the **Addresses** tab.

4. Select the **Add** button to bring up the **Manage addresses** form.

The screenshot shows the 'Manage addresses' form for customer 39981, Thomson Reuters. The form has a top menu bar with tabs: File, Customer, Sell, Invoice, Collect, Projects, Service, Market, Retail, and General. Below the menu bar is a ribbon with various icons and buttons. The main area is divided into sections: General, Addresses, and Contact information. The 'Addresses' section is expanded, showing a table with columns: Name or description, Address, Purpose, and Primary. A red circle highlights the 'Add' button (a green plus icon) in the 'Addresses' section. The table contains one entry: 'TR Lake Oswego' with address '5665 Meadows Rd, Lake Oswego, OR 97035-3159, USA', Purpose 'Business', and Primary 'Yes'.

Name or description	Address	Purpose	Primary
TR Lake Oswego	5665 Meadows Rd Lake Oswego, OR 97035-3159 USA	Business	Yes

5. Enter a US address and select **Ok**. The following form will appear asking if you wish to validate the address or save the address without validating.

The screenshot shows a confirmation dialog box with the text: "You have made changes to the address information and it is not yet validated. Do you want to have it validated?". There are two buttons: "Validate" and "Save without validation". The "Validate" button is highlighted with a red circle.



6. Choose **Validate** to send the address to Determination. This opens the **ONESOURCE IDT Address Validation** form.

**ONESOURCE IDT Address Validation (1)**

File Validate

Accept Save without validation Revalidate

**Non-Validated Address**

Street: 3 Times Square

City: New York

State: NY

ZIP/postal code: 10036

Country/region: USA

**Validated Address**

3 Times Sq

New York

NY

10036-6564

USA

**Address Validation Status**

CORRECTED

THOMSON REUTERS

Using this form, you can do the following:

- Compare the unvalidated address you entered to the validated address returned by the address validation service.
- View the status of the address validation:
  - **CORRECTED** indicates that a more exact address was identified by the address validation service.
  - **ERROR - Street not found** indicates that the street of the submitted address was not found.
  - **ERROR - Street number or box number is out of range** indicates that the house or box number was not found on the street of the submitted address.

- Update the non-validated address you entered and select **Revalidate** to resubmit the address if you received an error.
- Select **Accept** to save the **Validated Address**, or select **Save without validation** to save the non-validated address.



Using unvalidated addresses may impact the accuracy of your tax calculations.



A warning or error may occur during the address validation or revalidation process if the zip code does not match a zip code in the AX zip codes master data.

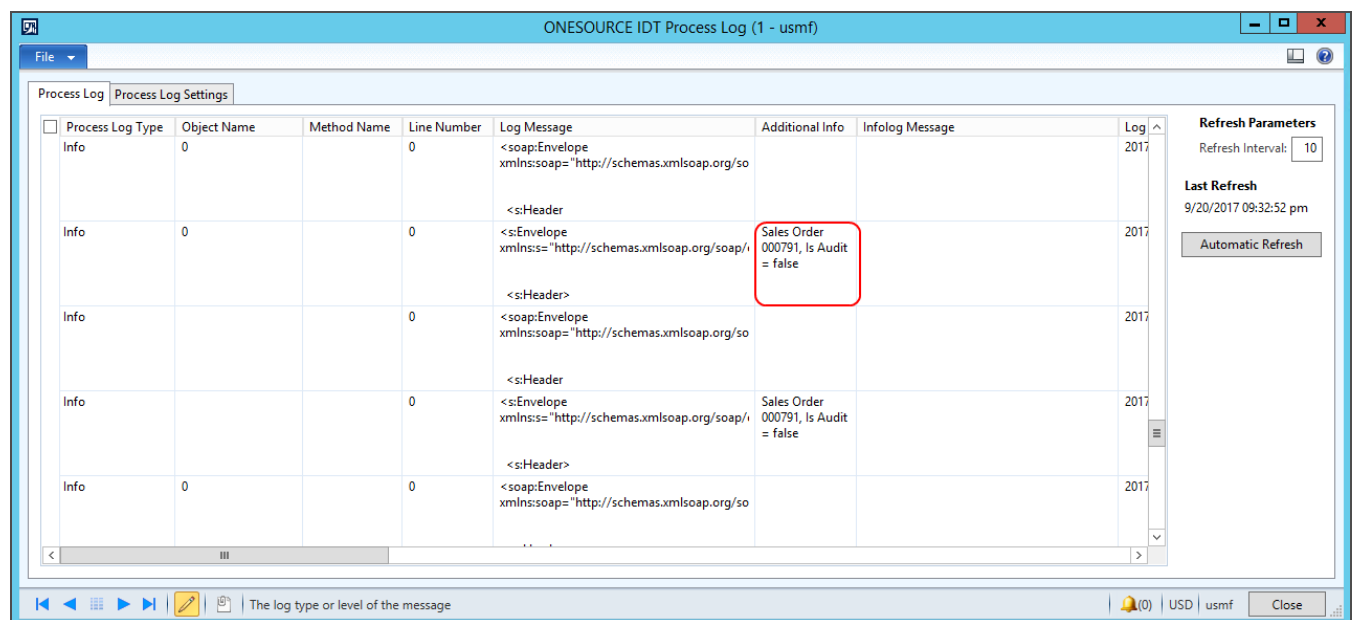


US addresses must include valid street information in order to be validated. US addresses that are missing street information will result in an error during the validation process. If you choose to continue without street information, you must save the address without validation.

# APPENDIX A - LOGGING

The ONESOURCE Indirect Tax integration includes configurable transaction logging capabilities. The **Process Log** captures information about each address validation and tax request triggered by the integration. This log allows you to see how a tax request is built and structured and how the response is returned to Dynamics AX. This is important when analyzing how a tax result is generated or for troubleshooting the integration.

1. Go to **Systems Administration > Inquiries > Process Log > ONESOURCE IDT Process Log**.
2. Select the **Process Log** tab.



Process Log Type	Object Name	Method Name	Line Number	Log Message	Additional Info	Infolog Message	Log
Info	0		0	<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/			2017
Info	0		0	<s:Header> <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/	Sales Order 000791, Is Audit = false		2017
Info			0	<s:Header> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/			2017
Info			0	<s:Header> <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/	Sales Order 000791, Is Audit = false		2017
Info	0		0	<s:Header> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/			2017

Process Log entries that relate directly to a tax request may be quickly identified by looking for text contained in the **Additional Info** column. This text identifies the document type, number, and if it was an audited call. The actual XML request is contained in the **Log Message** column to the left. The text may be copied from this cell and pasted into an XML formatting editor for easier analysis to determine how the tax request was structured. The related tax response will usually be listed in the row immediately above the row containing the tax request, depending on the Logging Level settings and system activity.

## CONFIGURE LOGGING OPTIONS

Changing the default log level settings in the Integration for Microsoft Dynamics AX is only required if you wish to view a different level of detail for the tax calls made to Determination.

The following log settings are provided:

LOGGING LEVEL	DESCRIPTION
Error	Only errors are written to the process log. This option provides the least amount of information, but the highest performance. This is the recommended setting for production environments, unless actively troubleshooting an issue with the ONESOURCE integration.
Warning	Only errors and warnings are written to the process log.
Info	Errors, warnings, and tax requests and responses are written to the process log. This option is useful for viewing the raw tax request and response data for troubleshooting a tax result. This is the recommended setting for UAT environments during the initial phases of configuring and testing the IDT configuration in D365O and Determination.
Debug	Lists all information related to a tax or address call, including how each data element was sourced to build the call. This option provides the most information and consequently provides the slowest performance. This setting is useful for deep troubleshooting and analysis of the tax request and response. It should not be used as a default setting in a production environment.

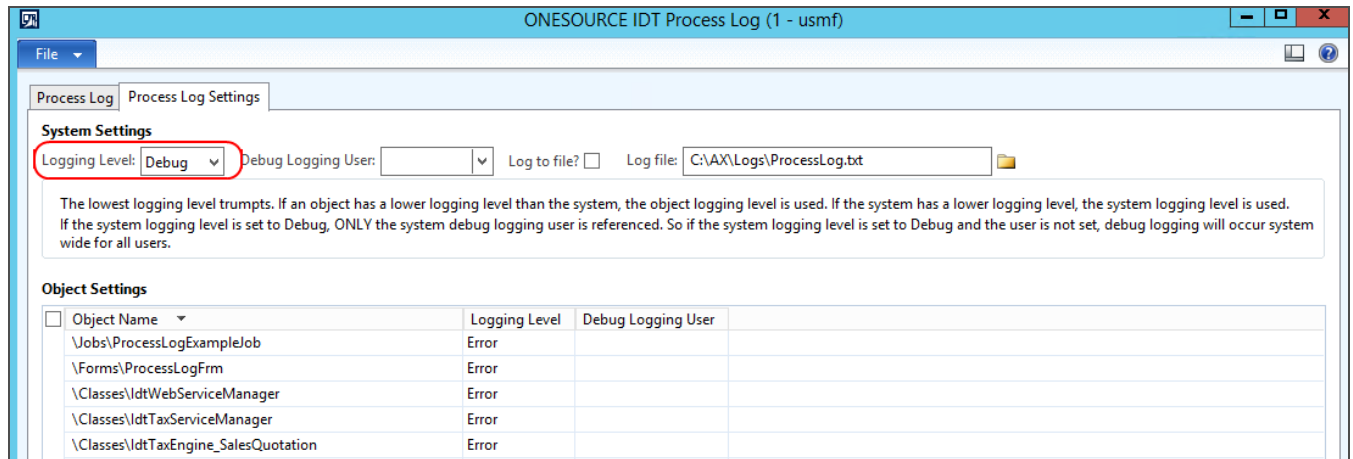


You must be an AX system administrator to change logging options.

To change logging options:

1. Go to **System administration > Inquiries > Process Log > ONESOURCE IDT Process Log**.
2. Select the **Process Log Settings** tab.

3. Use the **Logging Level** drop-down menu under **System Settings** to change the logging level for all objects.



The screenshot shows the 'ONESOURCE IDT Process Log (1 - usmf)' window. The 'Process Log Settings' tab is active. Under 'System Settings', the 'Logging Level' is set to 'Debug' (highlighted with a red box). Other settings include 'Debug Logging User' (empty), 'Log to file?' (unchecked), and 'Log file' (C:\AX\Logs\ProcessLog.txt). A note explains that the lowest logging level trumps, and if the system level is Debug, only the system debug logging user is referenced. Below this, the 'Object Settings' section contains a table with columns for 'Object Name', 'Logging Level', and 'Debug Logging User'.

Object Name	Logging Level	Debug Logging User
\Jobs\ProcessLogExampleJob	Error	
\Forms\ProcessLogFrm	Error	
\Classes\ldtWebServiceManager	Error	
\Classes\ldtTaxServiceManager	Error	
\Classes\ldtTaxEngine_SalesQuotation	Error	



The logging level may be set either system-wide or by user. You can also set logging levels by object or process if you wish to troubleshoot a specific process such as sales quotations.



# APPENDIX B - ONESOURCE-SPECIFIC TAX GROUPS AND TAX CODES

During the installation process, ONESOURCE-specific Sales Tax Groups and Sales Tax Codes are added to the native Dynamics AX Tax Groups and Codes.

## SALES TAX GROUPS

Microsoft Dynamics AX uses the new ONESOURCE-specific Tax Groups to trigger tax calculations. Use the following table as reference when configuring your integration.

SALES TAX GROUPS		
Tax Group	Description	Use Case
IDT	ONESOURCE Tax	Used to provide a default taxable result.  This Tax Group should be used for all customers including those who hold a valid exemption certificate. The customer's exemption certificate should be set up in Determination to return an exempt or reduced result.
IDT_EX_**	ONESOURCE Exempt Tax	Used to provide a default tax calculation of exempt when a customer claims to be exempt, but an exemption certificate is not yet configured in Determination.  This Tax Group should not be used when a customer has an exemption certificate configured in Determination. The ** refers to a specific exempt reason code as listed under <b>Sales Tax Exempt Codes</b> .
IDT_OVERRIDE	ONESOURCE Exempt Override	Used for processing single line exemptions where the entity is usually exempt, to give a taxable result. This option is used when a customer has a tax exempt certificate maintained in the ONESOURCE determination system and you wish to override the exemption and charge tax for a particular line item.

## SALES TAX CODES

All Tax codes in the following tables are installed, but some may not be used depending on your configuration. Use the tables below as reference when configuring your integration.

STATE LEVEL TAX CODES			
Tax Code	Tax Type	Description	Use Case
IDT_<StateCode>_S, where <StateCode> is the 2-digit state abbreviation	Sales	ONESOURCE <StateCode> Sales Tax	Single state detail tied directly to state- specific user defined GL code.

US TERRITORY AND ARMED FORCES LEVEL TAX CODES			
Tax Code	Tax Type	Description	Use Case
IDT_AS_S	Sales	IDT American Samoa Sales Tax Code	IDT American Samoa Sales Tax
IDT_FM_S	Sales	IDT Federated States of Micronesia Sales Tax Code	IDT Federated States of Micronesia Sales Tax
IDT_GU_S	Sales	IDT Guam Sales Tax Code	IDT Guam Sales Tax
IDT_MH_S	Sales	DT Marshall Islands Sales Tax Code	DT Marshall Islands Sales Tax
IDT_MP_S	Sales	IDT Northern Mariana Islands Sales Tax Code	IDT Northern Mariana Islands Sales Tax
IDT_PR_S	Sales	IDT Puerto Rico Sales Tax Code	IDT Puerto Rico Sales Tax
IDT_PW_S	Sales	IDT Palau Sales Tax Code	IDT Palau Sales Tax
IDT_VI_S	Sales	IDT Virgin Islands Sales Tax Code	IDT Virgin Islands Sales Tax
IDT_AA_S	Sales	IDT Armed Forces Americas Sales Tax Code	IDT Armed Forces Americas Sales Tax
IDT_AE_S	Sales	IDT Armed Forces Europe Sales Tax Code	IDT Armed Forces Europe Sales Tax



**US TERRITORY AND ARMED FORCES LEVEL TAX CODES**

<b>Tax Code</b>	<b>Tax Type</b>	<b>Description</b>	<b>Use Case</b>
IDT_AP_S	Sales	IDT Armed Forces Pacific Sales Tax Code	IDT Armed Forces Pacific Sales Tax

**AUTHORITY LEVEL TAX CODES**

<b>Tax Code</b>	<b>Tax Type</b>	<b>Description</b>	<b>Use Case</b>
IDT_CITY_S	Sales	ONESOURCE CITY Sales Tax	City Sales Tax Summary detail. If multiple city taxes are imposed in the authority, they will present as a single tax detail.
IDT_COUNTY_S	Sales	ONESOURCE COUNTY Sales Tax	County Sales Tax Summary detail. If multiple county taxes are imposed in the authority, they will present as a single tax detail.
IDT_DISTRICT_S	Sales	ONESOURCE DISTRICT Sales Tax	District Sales Tax Summary detail. If multiple district taxes are imposed in the authority, they will present as a single tax detail.
IDT_STATE_S	Sales	ONESOURCE STATE Sales Tax	State Sales Tax Summary detail. If multiple state taxes are imposed in the authority, they will present as a single tax detail.

**CANADIAN TAX CODES**

<b>Tax Code</b>	<b>Tax Type</b>	<b>Description</b>	<b>Use Case</b>
IDT_QST_S	Sales	ONESOURCE QST Sales Tax	Quebec Provincial Sales Tax
IDT_PST_S	Sales	ONESOURCE PST Sales Tax	Provincial Sales Tax
IDT_HST_S	Sales	ONESOURCE HST Sales Tax	Harmonized Sales Tax
IDT_GST_S	Sales	ONESOURCE GST Sales Tax	Canada Federal Goods and Services Tax

VAT TAX CODES			
Tax Code	Tax Type	Description	Use Case
IDT_XX_I	Sales and Purchases	ONESOURCE country-specific VAT code. "XX" refers to a country code. Recoverability (Non-recoverable VAT) may be documented separately.	Input Tax
IDT_XX_I_NR	Purchases	ONESOURCE country-specific VAT code	Non-recoverable input VAT
IDT_XX_O	Purchases	ONESOURCE country-specific VAT code. Recoverability (Non-recoverable VAT) may be documented separately.	Output VAT

OTHER TAX CODES			
Tax Code	Tax Type	Description	Use Case
IDT_ZERO_S	Sales	ONESOURCE ZR NL ZE AC	Zero tax liability due to international export where the seller is unregistered
IDT_Not_Found	Sales and Purchases	No tax code found	This tax code is selected for transactions when the integration is unable to find a match between the tax code qualifier returned from Determination and a sales tax code configured in AX. This typically occurs when a tax liability is assessed for a country or jurisdiction that has not yet been set up in AX or Determination.

SALES TAX EXEMPT CODES	
Code	Description
05	IDT Sales for Resale Exemption
10	IDT Sales in Interstate Commerce Exemption
15	IDT Non-taxable Food Exemption

SALES TAX EXEMPT CODES	
Code	Description
20	IDT Sales to Government Exemption
25	IDT Exempt Industrial and Farm Machinery Exemption
30	IDT Non-taxable Labor or Service Exemption
35	IDT Prescription Drugs Exemption
40	IDT Returned Merchandise Exemption
45	IDT Bad Debts Exemption
50	IDT Gasoline Exemption
55	IDT Direct Pay Permit Exemption
60	IDT Sales to Exempt Organizations Exemption
65	IDT Food Stamps and WIC Sales Exemption
70	IDT Medical Equipment Exemption
75	IDT Broadcasting Exemption
80	IDT Enterprise Zone Exemption
99	IDT Other Exemption

## TAX CODE QUALIFIERS

The integration allows for detailed general ledger postings. These postings are performed by AX when the record is saved, however configuration is required in both Determination and the integration for successful processing of tax results.

The first step is to create and setup Static Tax Code Qualifiers in Determination that map your chosen conditions to a predetermined AX 2012 Sales tax code. This Sales tax code is returned in the tax result. For more information on how to configure Static Tax Code Qualifiers see Determination Help.

## IDT Sales Tax Codes

The integration includes a list of default **IDT Sales tax codes**. These can be found at **General ledger > Setup > Sales tax > Sales tax codes**. The **IDT Sales tax codes** you create or use must match the results from Determination, so while a default is available configuration is required.

**Sales tax codes (1 - frsi)**

Sales tax code	Name
IDT_ES_I	IDT Spain Input VAT Code
IDT_ES_I_NR	IDT Spain Input VAT Code (Non-Recoverab...
IDT_ES_O	IDT Spain Output VAT Code
IDT_EX_05	IDT Sales for Resale Exemption Tax Code
IDT_EX_10	IDT Sales in Interstate Commerce Exemptio...
IDT_EX_15	IDT Non-taxable Food Exemption Tax Code
IDT_EX_20	IDT Sales to Government Exemption Tax Co...
IDT_EX_25	IDT Exempt Industrial and Farm Machinery ...
IDT_EX_30	IDT Non-taxable Labor or Service Exemptio...
IDT_EX_35	IDT Prescription Drugs Exemption Tax Code
IDT_EX_40	IDT Returned Merchandise Exemption Tax ...
IDT_EX_45	IDT Bad Debts Exemption Tax Code
IDT_EX_50	IDT Gasoline Exemption Tax Code
IDT_EX_55	IDT Direct Pay Permit Exemption Tax Code
IDT_EX_60	IDT Sales to Exempt Organizations Exempti...
IDT_EX_65	IDT Food Stamps and WIC Sales Exemption ...
IDT_EX_70	IDT Medical Equipment Exemption Tax Code

**Sales tax code:** IDT\_ES\_I  
**Name:** IDT Spain Input VAT Code  
**Sales tax jurisdiction code:**   
**Percentage/Amount:** 0.00000

**General**

**Currency**  
 Currency: EUR

**Packing duty**  
 Sort code:

**Conditional sales tax**  
 Payment sales tax code:

**Invoicing**  
 Print:  Print code:

**References**  
 Settlement period: IDT  
 Ledger posting group: IDT

**Negative sales tax percentage**  
 Negative sales tax percentage: ☐

**Calculation**

Code that identifies the sales tax.

Close

The default **IDT Sales tax codes** include a large amount of detail and can get you started quickly. If desired, you can ignore or inactivate these default codes and replace them with your own custom **IDT Sales tax codes** that are configured with Determination results for your integration.

The GL postings related to the Sales tax codes are controlled by the associated Ledger posting group. The default configuration assigns the same posting group to both input and output Sales tax codes. If desired, this configuration can be changed.

## REVERSE CHARGES

The integration supports reverse charge scenarios for both Sales and Purchase transactions.

By default, all transactions are sent to Determination with **Transaction Type = Goods**. Determination can be configured to recognize data elements in the XML (such as services commodity codes) and modify the line data sent so that **Transaction Type = Services**.



The integration does not recognize AX 2012 Service Items as services unless configured in Determination.

## Reverse Charge on Purchase Transactions

The integration uses the tax registrations of the Vendor and the Company (stored in Determination), address data, and Commodity Codes to evaluate taxability on purchases.

Example:

An Invoice is created with a single line that has a value of €10,000 shipping from Spain to France. The invoice has the following additional attributes:

- The Buyer Primary Address is **France** and the Seller Primary Address is **Spain**.
- The buyer and seller are each registered in both countries.
- Terms of Delivery is set to **DDP**.
- The item **Commodity Code** is **330510** and there are no additional configurations or custom rules in Determination

A reverse charge does not apply to this transaction and the invoice is calculated to have €550 Input VAT.

Sales tax transactions (1 - frsi)

File Distribute amounts

Total calculated sales tax amount: 550.00 Total actual sales tax amount: 550.00

Overview General

<input type="checkbox"/> Sales tax code ^	Quantity	Amount origin	Adjusted amount origin	Percent	Calculated sales tax amount	Actual sales tax amount	Override calculated sales tax	Sales tax direction
IDT_FR_I	0.00	10,000.00	0.00	5.50000	550.00	550.00	<input type="checkbox"/>	Sales tax receivab

< III >

Total actual sales tax amount, displayed in the transaction currency

(0) EUR frsi Close

The same transaction in the following image but with a different **Commodity Code**, **S17.04.01**, and a rule configured to change the **Transaction Type** of the line to **Default Services** would result in €2,000 Output VAT and €2,000 Input VAT (a reverse charge) for a net amount of zero added to the transaction.

Sales tax code	Quantity	Amount origin	Adjusted amount origin	Percent	Calculated sales tax amount	Actual sales tax amount	Override calculated sales tax	Sales tax direction
IDT_FR_I	0.00	10,000.00	0.00	20.00000	2,000.00	2,000.00	<input type="checkbox"/>	Sales tax receivab
IDT_FR_O	0.00	10,000.00	0.00	20.00000	-2,000.00	-2,000.00	<input type="checkbox"/>	Sales tax receivab

The Jurisdiction text summary for this transaction would include: "EUBS05: Recovery of reverse charge in Buyer's country under Articles 196 and 44 of EC Directive 2006/112."

## Reverse Charge on Sales Transactions

The integration uses the tax registrations of the Customer and the Company (stored in Determination), address data, and Commodity Codes to evaluate taxability on sales.

Example:

An Invoice is created with a single line that has a value of €10,000 shipping from France to Spain. The invoice has the following additional attributes:

- The Buyer Primary Address is **Spain** and the Seller Primary Address is **France**.
- The buyer and seller are each registered in both countries.
- The item **Commodity Code** is **330510** and there are no additional configurations or custom rules in Determination.

A reverse charge does not apply here, so the invoice is calculated to have €550 in VAT. The same transaction, but with a different **Commodity Code**, **S17.04.01**, and a custom rule configured to change the **Transaction Type** of the line to **Default Services** would result in zero VAT because the buyer would be required to reverse charge.

The Jurisdiction text summary for this transaction would include: "EUSS28: No VAT liability in Seller's Country under Articles 44 of EC Directive 2006/112. Customer to reverse charge in Buyer's Country under Article 196."

# APPENDIX C - AX SALES AND USE TAX RECONCILIATION REPORTING

This section describes mapping from AX to ONESOURCE Indirect Tax Reconciliation Extract Output.

The AX SSRS report, IDT ONESOURCE Tax Reconciliation Report, uses Sales and Purchasing transaction data from AX. It can be exported to a .csv file for upload to ONESOURCE Indirect Tax Reporting to use in the Reconciliation Report.

## EXPORT THE IDT ONESOURCE RECONCILIATION EXTRACT TO A .CSV FILE

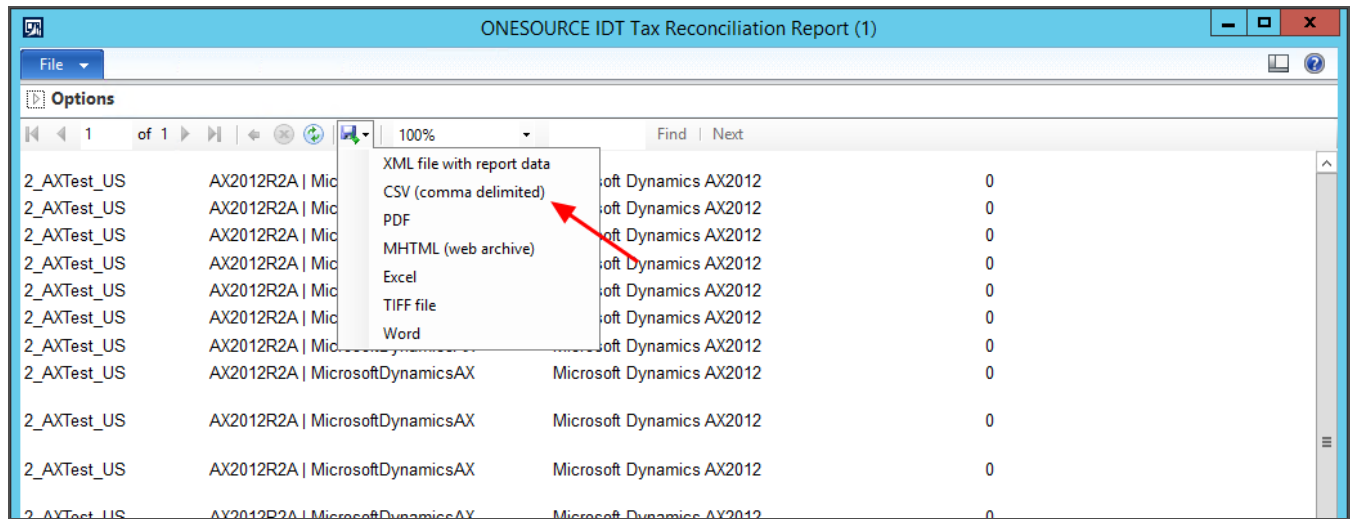
1. Navigate to **General ledger > Reports > Sales Tax > ONESOURCE IDT Tax Reconciliation Report**.

2. Select the desired criteria for **Trans Type**, **GL Year** and **GL Period**. The **GL From Date**, **GL To Date** and the **Trans From Date** and **Trans To Date** populate automatically.

3. Select **OK** to generate the report.



4. After the report prints to the screen, click **Export** and select **CSV (comma delimited)** to save the output as a .csv file.



5. Save your .csv output file as *ReconInputFile.csv*. You must name this file exactly as shown, with the .csv extension in lower case.



Avoid editing the .csv file with spreadsheet applications. Their auto-correct features may affect your data.

The Reconciliation Report compares data imported from the AX ONESOURCE IDT Tax Reconciliation Report with the data in Determination's Audit database. The Reconciliation Report indicates transactions missing in AX, transactions missing in Audit, as well as differences in tax amounts.

Filters are provided for you to select either Sales, Purchases, or both transaction types. These are defined by the AX Transaction Type as follows:

- Sales transaction types include:
  - Credit Notes
  - Free Text Invoices
  - Sales Invoices
  - Sales Journals
  - Sales Returns

- Purchase transaction types include:
  - Vendor Invoices
  - Vendor Invoice Journals

## SQL SERVER REPORTING SERVICES CONFIGURATION (OPTIONAL)

By default, when SSRS reports are exported to a .csv file the column headers are included. There is a configuration option at the server level that allows you to modify this, but the modification applies to all reports.

After modifying the configuration file as described in the following steps, you must restart the service before the updates take effect.

### Step One - Modify Existing CSV Export Extension

In this step you are modifying the existing CSV export extension.

The location of this file can vary between SSRS installs. The standard path is C:\Program Files\Microsoft SQL Server\MSRS12.MSSQLSERVER\Reporting Services\ReportServer\RSReportServer.Config.

Modify your existing CSV extension, adding the true NoHeader node, as shown in the following code sample:

```
1 <Extension Name="CSV"
  Type="Microsoft.ReportingServices.Rendering.DataRenderer.Csv
  Report,Microsoft.ReportingServices.DataRendering">
2   <Configuration>
3     <DeviceInfo>
4       <NoHeader>true</NoHeader>
5     </DeviceInfo>
6   </Configuration>
7 </Extension>
```

### Step Two - Add CSV (No Header) Export Extension

In this step you are modifying the SSRS configuration file to add a new CSV (No Header) extension.

The location of the SSRS configuration can vary between SSRS installs. The standard path is C:\Program Files\Microsoft SQL Server\MSRS12.MSSQLSERVER\Reporting Services\ReportServer\RSReportServer.Config.

Immediately after the existing CSV extension, add a new CSV (No Header) extension as shown in the following code sample:

```
1 <Extension Name="CSV (No Header) "  
  Type="Microsoft.ReportingServices.Rendering.DataRenderer.Csv  
  Report,Microsoft.ReportingServices.DataRendering">  
2 <OverrideNames>  
3   <Name Language="en-us">CSV (No Header)</Name>  
4 </OverrideNames>  
5 <Configuration>  
6   <DeviceInfo>  
7     <NoHeader>true</NoHeader>  
8   </DeviceInfo>  
9 </Configuration>  
10 </Extension>
```



The ONESOURCE integration uses all the standard Dynamics AX tables for managing tax related transactions. All posted sales tax transactions are stored in the standard AX 2012 sales tax transaction table *TaxTrans*. Please see the Microsoft documentation for detailed information regarding this table.



# APPENDIX D - LIST OF OVERLAYERED OBJECTS IN AX2012 R3 CU12

## TABLES

- DivTerm
- DMFEntity
- EcoResCategory
- InventTable
- LogisticsPostalAddress
- MarkupTable
- MarkupTrans
- TaxTrans
- TaxUncommitted
- TmpTaxRegulation
- TmpTaxWorkTrans

## MAPS

- TaxMap

## CLASSES

- AxInventTable
- AxTaxTrans
- ConnInvoice\_TaxTrans

- ConnItemSvc\_InventTable
- CustECollectLetter\_TaxTrans\_NO
- InventItem\_InventTable
- ProdProjEInvoice\_TaxTrans
- SalesCalcTax
- SalesCalcTax\_Sales
- SalesQuotationCalcTax\_Sales
- SalesSalesEInvoice\_TaxTrans
- SalesSalesInvoice\_TaxTrans
- Tax
- TaxCalculation
- TaxCalculationAdjustment
- TaxFreeInvoice
- TaxFreeInvoice\_Invoice
- TaxPost
- TaxPostJournal
- TaxPurch
- TaxPurchInvoice
- TaxRegulation
- TaxSales
- TaxSalesInvoice
- TMSPurchOrder\_InventTable

## FORMS

- DeliveryTerms
- DirPartyQuickCreateForm
- EcoResProductDetailsExtended
- LogisticsPostalAddress
- MarkupTable
- ProcCategoryHierarchyManagement
- SalesCategoryHierarchyManagement
- TaxTrans

## MENUS

- General Ledger
- System Administration





# APPENDIX E - CUSTOM ATTRIBUTES REFERENCE



To view the Microsoft Developer Network documentation for these tables, enter the table name followed by **AX 2012** in your search engine of choice. For example, enter **SalesTable AX 2012** in the Google search window.

## DOCUMENT TYPE: SALES QUOTATIONS

### RELATED DOCUMENTS: SALES QUOTATION CONFIRMATION, SALES QUOTATION JOURNAL

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	SalesQuotationTable	SalesQuotationTable	SalesQuotationTable
Header	SalesQuotationTable	InvoiceCustomer	CustTable
Header	SalesQuotationTable	OrderCustomer	CustTable
Header	SalesQuotationTable	smmBusRelTable	smmBusRelTable
Line	SalesQuotationLine	SalesQuotationLine	SalesQuotationLine
Line	SalesQuotationLine	InventTable	InventTable
Line	SalesQuotationLine	InventDim	InventDim
Line	SalesQuotationLine	DlvTerm	DlvTerm
Line	InventTable	ecoResProduct	ecoResProduct

## DOCUMENT TYPE: SALES ORDER

### RELATED DOCUMENTS: SALES ORDER CONFIRMATION, SALES INVOICE, RETURN ORDER

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	SalesTable	SalesTable	SalesTable
Header	SalesTable	InvoiceCustomer	CustTable
Header	SalesTable	OrderCustomer	CustTable

**DOCUMENT TYPE: SALES ORDER****RELATED DOCUMENTS: SALES ORDER CONFIRMATION, SALES INVOICE, RETURN ORDER**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	SalesTable	CustGroup	CustGroup
Line	SalesLine	SalesLine	SalesLine
Line	SalesLine	InventTable	InventTable
Line	SalesLine	InventDim	InventDim
Line	SalesLine	DlvTerm	DlvTerm
Line	InventTable	ecoResProduct	ecoResProduct

**DOCUMENT TYPE: FREE TEXT INVOICE****RELATED DOCUMENTS: FREE TEXT INVOICE, INVOICE**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	CustInvoiceTable	CustInvoiceTable	CustInvoiceTable
Header	CustInvoiceJour	CustInvoiceJour	CustInvoiceJour
Header	CustInvoiceTable	CustTable_InvoiceAmount	CustTable
Header	CustInvoiceTable	CustTable_OrderAmount	CustTable
Header	CustInvoiceTable	CustGroup	CustGroup
Header	CustInvoiceTable	DlvTerm	DlvTerm
Header	CustInvoiceLine	CustInvoiceLine	CustInvoiceLine
Header	CustInvoiceTrans	CustInvoiceTrans	CustInvoiceTrans

**DOCUMENT TYPE: PURCHASE REQUISITION**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	PurchReqTable	PurchReqTable	PurchReqTable

**DOCUMENT TYPE: PURCHASE REQUISITION**

Level	Relation Source Table	Relation Name	Relation Destination Table
Line	PurchReqLine	PurchReqLine	PurchReqLine
Line	PurchReqLine	InventTable	InventTable
Line	PurchReqLine	InventDim	InventDim
Line	PurchReqLine	VendTable	VendTable

**DOCUMENT TYPE: REQUEST FOR QUOTATION****RELATED DOCUMENTS: REQUEST FOR QUOTATION REPLY, REQUEST FOR QUOTATION JOURNAL**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	purchRFQTable	purchRFQTable	purchRFQTable
Header	purchRFQTable	VendTable	VendTable
Header	purchRFQTable	DlvTerm	DlvTerm
Line	purchRFQLine	purchRFQLine	purchRFQLine
Line	purchRFQLine	InventTable	InventTable
Line	purchRFQLine	InventDim	InventDim
Line	InventTable	ecoResProduct	ecoResProduct

**DOCUMENT TYPE: PURCHASE ORDER****RELATED DOCUMENTS: PURCHASE INVOICE, VENDOR INVOICE**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	PurchTable	PurchTable	PurchTable
Header	PurchTable	InvoiceVendor	VendTable
Header	PurchTable	OrderVendor	VendTable

**DOCUMENT TYPE: PURCHASE ORDER****RELATED DOCUMENTS: PURCHASE INVOICE, VENDOR INVOICE**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	PurchTable	VendGroup	VendGroup
Header	PurchTable	DlvTerm	DlvTerm
Line	PurchLine	PurchLine	PurchLine
Line	PurchLine	InventTable	InventTable
Line	PurchLine	InventDim	InventDim
Line	InventTable	ecoResProduct	ecoResProduct

**DOCUMENT TYPE: VENDOR INVOICE JOURNAL**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	LedgerJournalTable	LedgerJournalTable	LedgerJournalTable
Line	LedgerJournalTrans	LedgerJournalTrans	LedgerJournalTrans
Line	VendTrans	VendTable_AccountNum	VendTable

**DOCUMENT TYPE: PROJECT****RELATED DOCUMENTS: PROJECT INVOICE**

Level	Relation Source Table	Relation Name	Relation Destination Table
Header	ProjProposalJour	ProjProposalJour	ProjProposalJour
Header	ProjInvoiceJour	ProjInvoiceJour	ProjInvoiceJour
Header	ProjProposalJour	CustTable_Invoice	CustTable
Header	ProjProposalJour	CustTable_Order	CustTable
Header	ProjProposalJour	DlvTerm	DlvTerm
Line	ProjProposalCost	ProjProposalCost	ProjProposalCost

**DOCUMENT TYPE: PROJECT****RELATED DOCUMENTS: PROJECT INVOICE**

Level	Relation Source Table	Relation Name	Relation Destination Table
Line	ProjProposalEmpl	ProjProposalEmpl	ProjProposalEmpl
Line	ProjProposalItem	ProjProposalItem	ProjProposalItem
Line	ProjProposalOnAcc	ProjProposalOnAcc	ProjProposalOnAcc
Line	ProjProposalRevenue	ProjProposalRevenue	ProjProposalRevenue
Line	ProjInvoiceCost	ProjInvoiceCost	ProjInvoiceCost
Line	ProjInvoiceEmpl	ProjInvoiceEmpl	ProjInvoiceEmpl
Line	ProjInvoiceItem	ProjInvoiceItem	ProjInvoiceItem
Line	ProjInvoiceOnAcc	ProjInvoiceOnAcc	ProjInvoiceOnAcc
Line	ProjInvoiceRevenue	ProjInvoiceRevenue	ProjInvoiceRevenue
Line	ProjProposalItem	InventTable	Inventtable
Line	ProjProposalItem	SalesLine	SalesLine