

AvaTax Magento 1 Extension

User Guide

v 3.7.0

Table of Contents

[About Avatax extension](#)

[Flow and integration with StoreFront](#)

[Installation](#)

[Typical Installation Process](#)

[Installation Process for Legacy Versions of Magento Professional & Magento](#)

[Enterprise](#)

[Connection Settings](#)

[Validation & Normalization](#)

[Tax Calculations](#)

[GetTax details while Cart and Checkout calculations](#)

[GetTax details while Invoice and Credit Memo calculations](#)

[Business Identification Number](#)

[Tax inclusive and exclusive prices](#)

[Effective tax rate vs ordinary tax rate](#)

[Data Mapping](#)

[Taxability based on UPC](#)

[Tax Classes](#)

[Limit tax calculation requests](#)

[Tax calculation settings](#)

[Custom Duty](#)

[System Configuration](#)

[HS Codes](#)

[Parameters](#)

[Agreements](#)

[Product Configuration](#)

[Seller is an importer flag](#)

[Import duties configuration](#)

[Third parties integrations](#)

[Shipping Insurance](#)

[Document Management \(Exemption Certificates\)](#)

[Seller Side](#)

[Customer Side](#)

[Error Handling](#)

[Filter Requests](#)

[Request Settings](#)

[Logging](#)

[Order Sync Queue](#)

[Export Configuration](#)

[Order Logs Export](#)

[List of hidden and overridden settings](#)

[When Avatax is installed and enabled, some default Magento settings are hidden and their behaviour is overridden.](#)

About Avatax extension

Avalara Avatax is well known platform that dynamically delivers instantaneous sales tax decisions based on precise geo-location. Tax can be calculated for almost all countries in the world. You don't need to create or rewrite tracking zones, rates, tax rules. AvaTax continuously updates data, making accurate sales tax calculations available immediately in real time. Avatax extension performs address validation and normalization, looks for taxability determination, uses jurisdiction assignment technology for correct and valid tax calculation.

The main purpose of the extension is to calculate tax with Avalara Avatax Platform. A lot of settings allow to configure extension regarding to specifics of your stores, products, clients.

All Avatax operations and requests are saved as logs in a table so admin can review and use existing information for own and business goals.

Avatax extension is easy installed to Magento platform and can be configured differently for all available stores. If Avatax extension is disabled for any store, tax can be calculated by using other services (for example, Default Magento Rules).

Flow and integration with StoreFront

Every time when tax need to be calculated (on Shopping Cart, Checkout) and record sale (Invoice/Credit Memo) for filing and reporting in Avatax system Avatax extension starts its work.

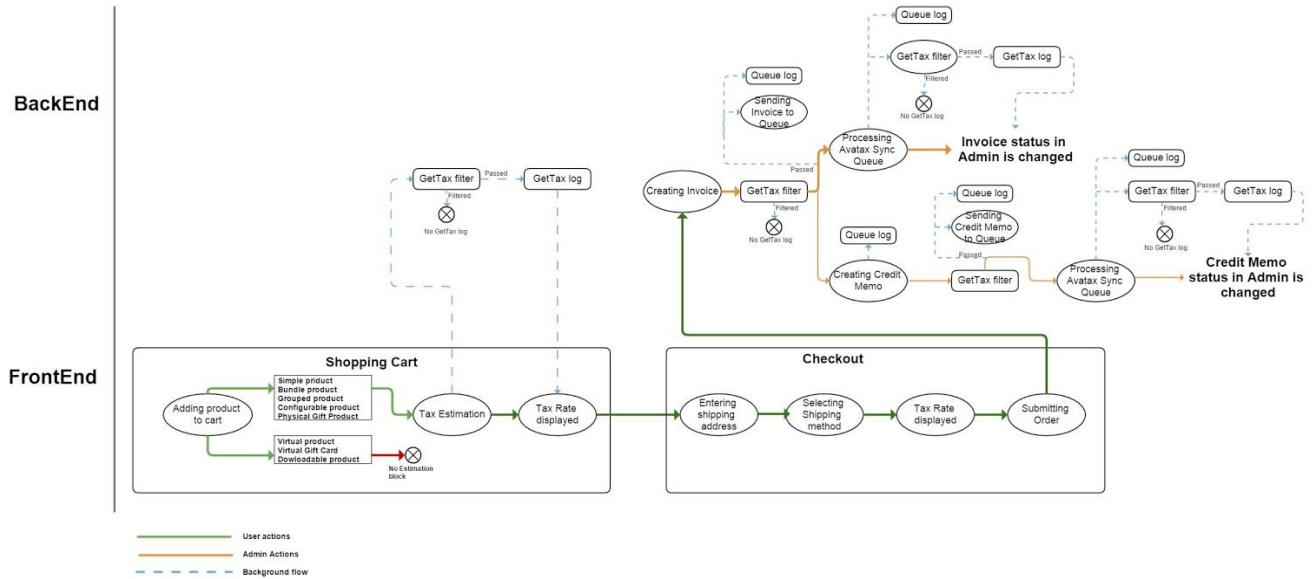
GetTax is an Avatax request to calculate tax for Order or record sale (Invoice/Credit Memo) for filing and reporting in Avatax system.

Validate is an Avatax Request to validate and normalize Shipping Address.

Filter is a log that is created to indicate situation when GetTax/Validate cannot be performed for entered Shipping Address because of admin settings for Filter Request (admin is able to select countries and regions which validation and tax calculation should or should not be performed for). If Shipping Address is filtered then GetTax/Validate is skipped.

Invoices and Credit memo can be transferred to Avalara admin. Queue is used for this purpose. So when Queue transaction is performed, log Queue is created.

See Avatax work-flow on diagram bellow.



Installation

Typical Installation Process

In addition to the instructions below, you can watch this [installation walkthrough](#) video that shows the complete installation on a Magento Community 1.9.3.6 website.

1. Even though AvaTax extension is open source, to be able to install it you need to go through purchase process, which is described below.
 - 1.1. Browse to Magento Marketplace <https://marketplace.magento.com>.
 - 1.2. Sign in.
 - 1.3. Then, purchase AvaTax extension to be able to obtain extension installation key.
 - 1.4. To obtain installation key, please, browse to your account profile.
 - 1.5. Switch to to *My Access Keys* and choose *Magento 1* tab as shown below:

Search for products, categories, ...

Home > Customer Account

My Account

Marketplace

Magento

Developer Portal

My Products

Access Keys

My Purchases

Payment

Purchase History

Refunded Orders

My Information

Profile Settings

- 1.6. Find your personal access key that relates to Avalara Sales Tax Automation product.

Search for products, categories, ...

Home > Customer Account > My Access Keys

My Access Keys

Magento 2

Magento 1

These keys can be used for installation of an extension on the Magento 1 platform. Please copy the key and paste under the MCM for extension installation.

Product Name	Access Keys	Actions
Avalara Sales Tax Automation	https://connect20.magentocommerce.com/a1cf.../astound+OnePica_AvaTax-3.5.3	Copy

2. Continue with your magento website.
 - 2.1. Login as administrator to magento admin panel.

- 2.2. If applicable, disable caching (*System > Cache Management*) and disable compilation (*System > Tools > Compilation*)
- 2.3. Install extension with Access Key.
 - 2.3.1. Browse to *System > Magento Connect > Magento Connect Manager* and Log in
 - 2.3.2. Change to the *Settings* tab and set *Preferred State* to "Beta", then click Save Settings
 - 2.3.3. Change to the *Extensions* tab, paste in the Extension Key input *Product Access Key*, that you gained with instructions above, then click Install, and confirm that you are shown a success message.
 - 2.3.4. Click Refresh to see the package successfully installed
 - 2.3.5. Click Return to Admin in the upper right
- 2.4. Flush permissions: Log out of the admin and log back in
- 2.5. Enable the cache, turn compilation back on, and recompile if you were previously using those features

Installation Process for Legacy Versions of Magento Professional & Magento Enterprise

1. If applicable, disable caching (*System > Cache Management*) and disable compilation (*System > Tools > Compilation*)
2. Download the latest version. It can be obtained via Magento Marketplace.
3. Extract the contents: Confirm the creation of:
 - a. `/app/etc/modules/OnePica_AvaTax.xml`
 - b. `/app/code/community/OnePica/AvaTax/`
4. Enable cache, turn compilation back on, and recompile if you were previously using those features

Connection Settings

To set up Avatax extension go to *Admin Panel > System > Configuration > Sales > Tax > Avatax: Connection Settings*

Connection Settings

Action	Enable: calculate tax, submit data ▼	[STORE VIEW]
URL	Production (https://avatax.avalara.net/) ▼	[STORE VIEW]
Account Number	mark.withers82+ac@gmail.com	[STORE VIEW]
Key	Victory18!	[STORE VIEW]
Company Code	Avalara (DEFAULT) ▼ Get Companies	[STORE VIEW]
	▲ Required. Your company code from the dashboard.	
Taxable Country	<div style="border: 1px solid #ccc; padding: 2px;"> <ul style="list-style-type: none"> American Samoa ▲ Andorra Angola Anguilla Antarctica Antigua and Barbuda Argentina Armenia Aruba Australia ▼ </div>	[STORE VIEW]
	▲ Address validation option works only for United States and Canada	
Filter Requests by Region	None ▼	[STORE VIEW]
	▲ Re-save settings if Taxable Country was changed to use this option.	

To connect Avatax extension you should enter valid credentials:

- URL: URL of Avalara Service that will provide tax calculation and address validation / normalization options.
- Account Number: this string is a UUID issued by Avalara to identify the Avalara account that owns the company identified by the Company Code.
- Key: the Authorization is used to identify the actor (person or system) making the request.
- Company Code: identifies the company profile/legal entity with which the Avatax operations are associated. [Get Companies] button allows to fill list of available company codes if credentials are valid.

To enable or disable AvaTax please use Action setting under Connection Setting block:

- Disable: tax will be calculated by default Magento; AvaTax is disabled. Default Magento settings for tax calculation are present. Please note, that in case Avatax is disabled for one or few Store Views on the web site, tax will be calculated by native Magento functionality. So it's possible to enable AvaTax extension for some of the Store Views and disable it for the other Store Views.
- Enable: calculate tax: only tax for Orders is calculated by Avatax. Default Magento settings for tax calculation are not present. Invoices and Credit Memos are not sent to Avalara admin, GetTax requests are not created for Invoice or Credit Memo creation.
- Enable: calculate tax, submit data: tax is calculated for Orders; Invoices and Credit Memos are sent to Avalara Admin console with *Uncommitted* status.
- Enable: calculate tax, submit data and commit: tax is calculated for Orders; Invoices and Credit Memos are sent to Avalara Admin console with *Committed* status.

Each time when admin makes some changes in Avatax settings (not only Connection Settings but settings related to any Avatax option) Ping log is saved to Avatax Log table (*Admin Panel > Sales > Tax > Avatax Logs*):

- if all connection settings are valid Avatax extension saves Ping Log with Level "Success";
- if at least one Connection Parameter is invalid Avatax extension saves Ping Log with Level "Error".

See [Logging](#) find more information about Logs.

User is able to configure Filter Requests by Region option, go [here](#) to see how to do it.

- Detail Level: Defines what detail level will be send to Avalara. For "Line" detail level calculated product tax rate will be used from tax line. For "Tax" detail level product rate will be effective and collected for each product by jurisdiction.

Validation & Normalization

For tax calculation process, Address Validation should be performed.

Address Validation is the process that is used to check the validity and deliverability of a physical mailing address. The main purpose of Validation is to verify whether address is valid and really exists.

Address Normalization is process of changing address entered by user to full and well-formed.

To configure Validation and Normalization of address go to *Admin Panel > System > Configuration > Sales > Tax > Avatax > Shipping Address Options*

Shipping Address Options		[STORE VIEW]
Address Validation	<input type="text" value="Disabled"/> ▾ ▲ Require a validated address from AvaTax to checkout	[STORE VIEW]
Address Normalization	<input type="text" value="Disable"/> ▾ ▲ Replace address with well-formed one from AvaTax	[STORE VIEW]
Onepage Checkout Address Normalized Notice	<div style="border: 1px solid #ccc; padding: 5px; min-height: 100px;">Your shipping address has been modified during our validation process. Please confirm the address to the right is accurate</div> ▲ Only applies if address normalization is enabled	[STORE VIEW]
Multi-Address Checkout Address Normalized Notice	<div style="border: 1px solid #ccc; padding: 5px; min-height: 100px;">Your shipping address has been modified during our validation process. Please confirm the address to the right is accurate</div> ▲ Only applies if address normalization is enabled	[STORE VIEW]
Multi-Address Address Validation Error	<div style="border: 1px solid #ccc; padding: 5px; min-height: 100px;">The address '%s' appears invalid. Please correct it or select another address.</div> ▲ Only applies if address validation is enabled and shows ONLY for the multi-address checkout	[STORE VIEW]

Admin is able to configure the following Shipping Address Options:

- Address Validation: This optional step stands for recognition of address before tax calculation. Admin is able to select one of the following values:
 - Disabled: a basic level of validation is performed to verify that AvaTax can calculate tax on the given address
 - Enabled + Allow Order: if non-taxable address is entered tax is not calculated but user is able to continue and place order.
 - Enabled + Prevent Order: the user should enter a valid shipping address on Shopping Cart or Checkout to continue. If non-taxable address is entered, error message is displayed and user is not able to proceed.See [Error Handling](#) article to set up the most flexible behavior.
- Address Normalization: this optional step is used to replace address entered by user with a well-formed address provided by AvaTax during checkout. Two values are available:
 - Disabled: normalized address is sent in Response block of Validation but this address is not used on Checkout
 - Enabled: normalized address is used on Checkout instead of address entered by user
- Onepage Checkout Address Normalized Notice: this message is displayed if address has been modified during validation process and is replaced with address entered by user on Onepage Checkout (Address Normalization should be enabled)

1 CHECKOUT METHOD [Edit](#)

2 BILLING INFORMATION [Edit](#)

3 SHIPPING INFORMATION [Edit](#)

4 SHIPPING METHOD

Flat Rate
Fixed \$5.00

Onepage Checkout Address Normalized Notice

Your shipping address has been modified during our validation process. Please confirm the address to the right is accurate.

DO YOU HAVE ANY GIFT ITEMS IN YOUR ORDER?

Add gift options

[CONTINUE](#) [Back](#)

5 PAYMENT INFORMATION

6 ORDER REVIEW

[BILLING INFORMATION | CHANGE](#)
Test User
110 William St
NEW YORK, New York, 10038
United States
T: 123457

[SHIPPING ADDRESS | CHANGE](#)
Test User
110 William Street
New York, New York, 10038-3901
United States
T: 123457

[SHIPPING METHOD](#)

[PAYMENT METHOD](#)

- **Multi-Address Checkout Address Normalized Notice:** applies only if address normalization is enabled. Message is shown if address that has been entered by user on Multiple Checkout is modified and this modified address is used on Checkout

SELECT ADDRESSES SHIPPING INFORMATION BILLING INFORMATION PLACE ORDER ORDER SUCCESS

SELECT SHIPPING METHOD

Multi-Address Checkout Address Normalized Notice

Your shipping addresses have been modified during our validation process. Please confirm they are still correct.

ADDRESS 1 OF 2

[SHIPPING TO | CHANGE](#)

Test User
140 Las Vegas Boulevard North
Las Vegas, Nevada, 89101-2920
United States
T: 12341234

[ITEMS | EDIT ITEMS](#)

PRODUCT NAME	QTY
BLUE HORIZONS BRACELETS	1

DO YOU HAVE ANY GIFT ITEMS IN YOUR ORDER?

Add gift options

[SHIPPING METHOD](#)

Flat Rate
Fixed \$5.00

- **Multi-Address Address Validation Error:** applies only if address validation is enabled. Message is shown on Multiple Checkout if address is invalid. You can use '%s' in your error message text; in this case '%s' will be replaced with shipping address.

SELECT ADDRESSES	SHIPPING INFORMATION	BILLING INFORMATION	PLACE ORDER	ORDER SUCCESS
------------------	----------------------	---------------------	-------------	---------------

shipping address is used instead of '%s' in error message from "Multi-Address Address Validation Error" block

The address 'Test User, 100 Willim Street, Unknown City, New York 111, United States' appears invalid. Please correct it or select another address.

SHIP TO MULTIPLE ADDRESSES

ENTER A NEW ADDRESS

Please select shipping address for applicable items

PRODUCT	QTY	SEND TO
JACKIE O ROUND SUNGLASSES	1	Test User, 100 Willim Street, Unknown City, New York 111, United States

UPDATE QTY & ADDRESSES

Pay attention that address can be normalized only when Validate Request has Success Level.

- Website owner could allow customers to disable address normalization during checkout process. *Customer can disable* option appears if *Address Normalization* is enabled.

Shipping Address Options		[STORE VIEW]
Address Validation	<input type="text" value="Enable + Prevent Order"/> ▾ ▲ Require a validated address from AvaTax to checkout	[STORE VIEW]
Address Normalization	<input type="text" value="Enable"/> ▾ ▲ Replace address with well-formed one from AvaTax	[STORE VIEW]
Customer can disable	<input type="text" value="Yes"/> ▾ ▲ Allows customer to disable address normalization	[STORE VIEW]
Disabler label	<input type="text" value="Disable normalization for addresses."/> ▲ Disabler checkbox label.	[STORE VIEW]
Disabler loader label	<input type="text" value="Updating addresses..."/> ▲ Disabler loader label.	[STORE VIEW]

if this option turned on then customer have ability to control if normalization applies to address via checkbox, as shown on screenshot below

Your shipping address has been modified during our validation process. Please confirm the address to the right is accurate.

Disable normalization for addresses.

If customer clicks disabler checkbox then addresses would be reloaded without normalization applied immediately allowing customer to continue checkout process. Customer also able to turn on normalization with switching off disabler checkbox. Disabler checkbox and loader labels titles could be changed via fields in settings.

To find more details about Address Validation process go [here](#).

Please note: if user proceeds to Checkout with products that don't need shipping (virtual or downloadable products, Virtual Gift Card Products), then Validation and Normalization is performed for Billing Address.

Tax Calculations

Avatax extension uses GetTax Request type for two purposes:

- process of tax calculation for Order. GetTax Request is sent when user estimates tax in Shopping Cart or places Order.
- record sale (Invoice/Credit Memo) for filing and reporting in Avatax system (see details in [Queue section](#)). When Invoices / Credit Memo is sent from Avatax Order Sync Queue table to Avalara admin, tax need to be calculated. GetTax is sent for this purpose.

GetTax requests have following structure:

- information about user: customer code, tax class, customer usage type, etc.
- information about transaction: date, transaction type, currency etc.
- information about products: quantity, description, SKU, price, etc.
- information about shipping: origin and destination addresses, price, special tax code, etc.

Response block of GetTax includes detail tax amount for each item and entire Order.

Response also contains jurisdiction details, tax types, comments etc.

GetTax details while Cart and Checkout calculations

GetTax Request is sent each time when data needed for tax calculation is changed. But if request for changed data was sent previously, then new GetTax request is not sent, but data from previous response is used. It allows to decrease number of Requests.

Example: Shopping Cart

1. User adds product to Cart
2. Enters Country, State and Zip Code
3. Clicks "Estimate"

Result: GetTax Request is sent

4. Selects Shipping Method with price that is higher than 0
5. Clicks "Update Total"

Result: New GetTax Request is sent

6. Select Shipping Method with price that equals 0

Result: New GetTax Request is not sent because the same request was sent after step #3

So few GetTax Requests can be sent during tax estimation in Shopping Cart or Checkout - this is expected behavior.

GetTax details while Invoice and Credit Memo calculations

GetTax Request is sent once when Invoice / Credit Memo is sent to Avalara Admin with either *Uncommitted* or *Committed* status, depending on Action configuration. Invoice / Credit Memo changes status according to GetTax Response (read more about Queue in [Order Sync Queue](#) article).

Only one GetTax Request is sent for one Invoice / Credit Memo per one processing Queue.

Business Identification Number

Business Identification Number (Business Identification No) is also known as VAT Registration ID.

Business Identification No can be sent in GetTax Requests if it is specified by user during order placing. Business Identification No is usually provided by customer along with Shipping Address. But if user doesn't specify it in Shipping Address and specifies it in Billing, then Business Identification No is taken from Billing Address.

To enable / disable displaying of Business Identification No on StoreFront go to *Admin Panel > System > Configuration > Customers > Customer Configuration > Create New Account Options* and set value for the field "Show VAT Number on Frontend".

Tax inclusive and exclusive prices

Magento AvaTax extension is able to handle both tax inclusive and exclusive product prices. Behavior is driven by Magento setting under *Admin Panel > System > Configuration > Tax > Calculation Settings > Catalog prices*.

Tax

AvaTax		
Tax Classes		
Calculation Settings		
Catalog Prices	<input type="text" value="Excluding Tax"/> <input type="text" value="Excluding Tax"/> <input type="text" value="Including Tax"/>	[WEBSITE]
Default Tax Destination Calculation		
Shopping Cart Display Settings		
Orders, Invoices, Credit Memos Display Settings		
Fixed Product Taxes		

Default value of Excluding Tax stands for tax calculations based on product prices in Magento admin panel set without any tax, also called net prices. Below is an example of Order review page, as customers see it with Excluding Tax setting.

5 ORDER REVIEW

PRODUCT	PRICE	QTY	SUBTOTAL
SHEA ENFUSED HYDRATING BODY LOTION	\$28.00	1	\$28.00
		Subtotal	\$28.00
		Shipping & Handling (Flat Rate - Fixed)	\$5.00
		Tax	\$2.93
		Grand Total	\$35.93

product price from Magento admin → (points to \$28.00)
shipping price from Magento admin → (points to \$5.00)

Grand Total = 28.00 + 5.00 + 2.93
(Subtotal) (Shipping) (Tax)

[PLACE ORDER](#) [Forgot an Item? Edit Your Cart](#)

To calculate tax basing on gross price, meaning sale amount and tax being back-calculated from product price, *Catalog prices* should be set as Including Tax. Below is example of Order Review page in this case.

5 ORDER REVIEW

PRODUCT	PRICE	QTY	SUBTOTAL
SHEA ENFUSED HYDRATING BODY LOTION	\$28.00	1	\$28.00
		Subtotal	\$28.00
	Shipping & Handling (Flat Rate - Fixed)		\$5.00
		Tax	\$2.69
	Grand Total		\$33.00

product price from Magento admin → \$28.00

shipping proce from Magento admin → \$5.00

= 28.00 (Subtotal including tax) + 5.00 (Shipping including tax)

PLACE ORDER

Forgot an Item? [Edit Your Cart](#)

Catalog prices option may be set on Website level.

Magento Price Display Settings are hidden and are driven with Calculation Settings, meaning that prices on StoreFront catalog (categories, product details pages, etc.) are displayed as they are configured in admin panel, since tax for them is not calculated yet.

In order to provide better user experience, different *Display Settings* are supported for *Shopping Cart* and *Order, Invoices, Credit Memos* views: They can be set as Including tax, Excluding tax or Including and Excluding tax.

Shopping Cart Display Settings		
Display Prices	Including Tax	[STORE VIEW]
Display Subtotal	Excluding Tax	[STORE VIEW]
Display Shipping Amount	Including Tax	[STORE VIEW]
Display Gift Wrapping Prices	Including and Excluding Tax	[STORE VIEW]
Display Printed Card Prices	Including Tax	[STORE VIEW]
Include Tax In Grand Total	Yes	[STORE VIEW]
Display Full Tax Summary	Yes	[STORE VIEW]
Display Zero Tax Subtotal	No	[STORE VIEW]

Orders, Invoices, Credit Memos Display Settings		
Display Prices	Including Tax	[STORE VIEW]
Display Subtotal	Excluding Tax	[STORE VIEW]
Display Shipping Amount	Including Tax	[STORE VIEW]
Display Gift Wrapping Prices	Including and Excluding Tax	[STORE VIEW]
Display Printed Card Prices	Including Tax	[STORE VIEW]
Include Tax In Grand Total	Yes	[STORE VIEW]
Display Full Tax Summary	Yes	[STORE VIEW]
Display Zero Tax Subtotal	No	[STORE VIEW]

While *Catalog Prices* are set as Including Tax, Apply Customer Tax: Before / After Discount configuration is available. It controls, whether GetTax requests are sent before or after discounts are applied on prices.

Effective tax rate vs ordinary tax rate

It's regularly happens that some tax codes could have exemption for special jurisdictions. Please review screenshot of such case below:

exemptions

SUBTOTAL	\$28.00
AZ STATE TAX (5.6%)	\$0.00
AZ COUNTY TAX (0.7%)	\$0.00
AZ CITY TAX (3%)	\$0.84
TAX	\$0.84
GRAND TOTAL	\$28.84

If you have ordinary (Line) detail level configured then order item would be presented with Tax Percent equal to 9.3%, as shown below :

Items Ordered										
Product	Item Status	Original Price	Price	Qty	Subtotal	Tax Amount	Tax Percent	Discount Amount	Row Total	
Body Wash with Lemon Flower Extract and Aloe Vera SKU: hdb000	Ordered	\$28.00	\$28.00	Ordered 1	\$28.00	\$0.84	9.3%	\$0.00	\$28.84	

Comments History	
Add Order Comments	
Status	Pending
Comment	
<input type="checkbox"/> Notify Customer by Email	<input type="button" value="Submit Comment"/>

Order Totals	
9.3 %	Subtotal \$28.00
	Shipping & Handling \$5.00
	Total Tax \$0.84
	Grand Total \$33.84
	Total Paid \$0.00
	Total Refunded \$0.00
	Total Due \$33.84

if you have effective (Tax) detail level configured then extension does not take into consideration jurisdictions with exemptions and shows effective 3% rate in order item as shown below :

Items Ordered										
Product	Item Status	Original Price	Price	Qty	Subtotal	Tax Amount	Tax Percent	Discount Amount	Row Total	
Body Wash with Lemon Flower Extract and Aloe Vera SKU: hdb000	Ordered	\$28.00	\$28.00	Ordered 1	\$28.00	\$0.84	3%	\$0.00	\$28.84	

Comments History	
Add Order Comments	
Status	Pending
Comment	
<input type="checkbox"/> Notify Customer by Email	<input type="button" value="Submit Comment"/>

Order Totals	
3 %	Subtotal \$28.00
	Shipping & Handling \$5.00
	Total Tax \$0.84
	Grand Total \$33.84
	Total Paid \$0.00
	Total Refunded \$0.00
	Total Due \$33.84

As you could see tax amount is the same in both configurations, difference is only in rates representations.

Data Mapping

This is section for configuration additional parameters that are sent in GetTax Requests. It impacts tax calculation process.

To configure Data Mapping go to *Admin Panel > System > Configuration > Sales > Tax > Avatax > Data Mapping*.

Data Mapping		[STORE VIEW]
Customer Code Format	<input type="text" value="customer_id"/> ▼ <small>▲ Recommended: customer_id</small>	[STORE VIEW]
Shipping Sku	<input type="text" value="Shipping"/> <small>▲ Required. The sku sent to denote shipping costs.</small>	[STORE VIEW]
Gift Wrap Order Sku	<input type="text" value="GwOrder"/> <small>▲ Required. The sku sent to denote gift wrap order costs.</small>	[STORE VIEW]
Gift Wrap Items Sku	<input type="text" value="GwItems"/> <small>▲ Required. The sku sent to denote gift wrap items costs.</small>	[STORE VIEW]
Gift Wrap Printed Card Sku	<input type="text" value="GwPrintedCard"/> <small>▲ Required. The sku sent to denote gift wrap printed card costs.</small>	[STORE VIEW]
Adjustment Refund Sku	<input type="text" value="Adjustment"/> <small>▲ Required. The sku sent to denote positive adjustments.</small>	[STORE VIEW]
Adjustment Fee Sku	<input type="text" value="Adjustment"/> <small>▲ Required. The sku sent to denote negative adjustments.</small>	[STORE VIEW]
Sales Person Code	<input type="text" value="Magento"/> <small>▲ Optional. The sales person code for orders.</small>	[STORE VIEW]
Location Code	<input type="text"/> <small>▲ Optional. The location code for orders.</small>	[STORE VIEW]
Reference Code 1	<input type="text"/>	[STORE VIEW]
Reference Code 2	<input type="text"/> <small>▲ Optional. An attribute code to pass with each product. See product attributes in catalog > attributes.</small>	[STORE VIEW]
UPC check	<input type="text" value="Disable"/> ▼	[STORE VIEW]

Admin is able to configure following parameters:

- Customer Code Format: it is sent in CustomerCode line of Request Header. The following values are available for selecting

- customer_id;
- customer_email;
- customer_name (customer_id).
- customer attribute: if you select this option the field Customer Code Format Attribute will appear. You should fill this field with code of customer attribute. The value of customer attribute will be sent in the request to Avalara. There is default Avatax Customer Code (avatax_customer_code) attribute that can be used as customer code.
- Shipping Sku: entered value is sent in Request to identify Shipping Costs item
- Gift Wrap Order Sku: SKU that is sent to denote gift wrap order costs (Gift Wrapping for Entire Order)
- Gift Wrap Items Sku: SKU that is sent to denote gift wrap items costs (Gift Wrapping for Individual Items)
- Gift Wrap Printed Card Sku: SKU that is sent to denote gift wrap Printed Card costs
- Adjustment Refund Sku: SKU that is sent to denote positive adjustments
- Adjustment Fee Sku: SKU that is sent to denote negative adjustments
- Sales Person Code: the salesperson code for orders that is sent in Request Header
- Location Code: the location code for orders; optional field
- Reference Code 1, Reference Code 2: optional. An attribute code to pass with each product (see product attributes in *Catalog > Attributes*). Admin should enter valid product attribute to field that is sent in Request for products.
- UPC check: detail information about this option you can find [here](#).

Pay attention that all parameters except UPC check, Reference Code 1 and Reference Code 2 let users to fill in a static values. UPC check, Reference Code 1 and Reference Code 2 can be mapped to dynamic fields.

For example, if admin enters *Location Code: 0000* it means that static value "0000" of LocationCode will be sent for all GetTax requests. But if admin enters *Reference Code 1: color* it means that specific color of ordered item will be sent in GetTax requests. So Reference Code 1 has dynamic value that changes according to item attribute value.

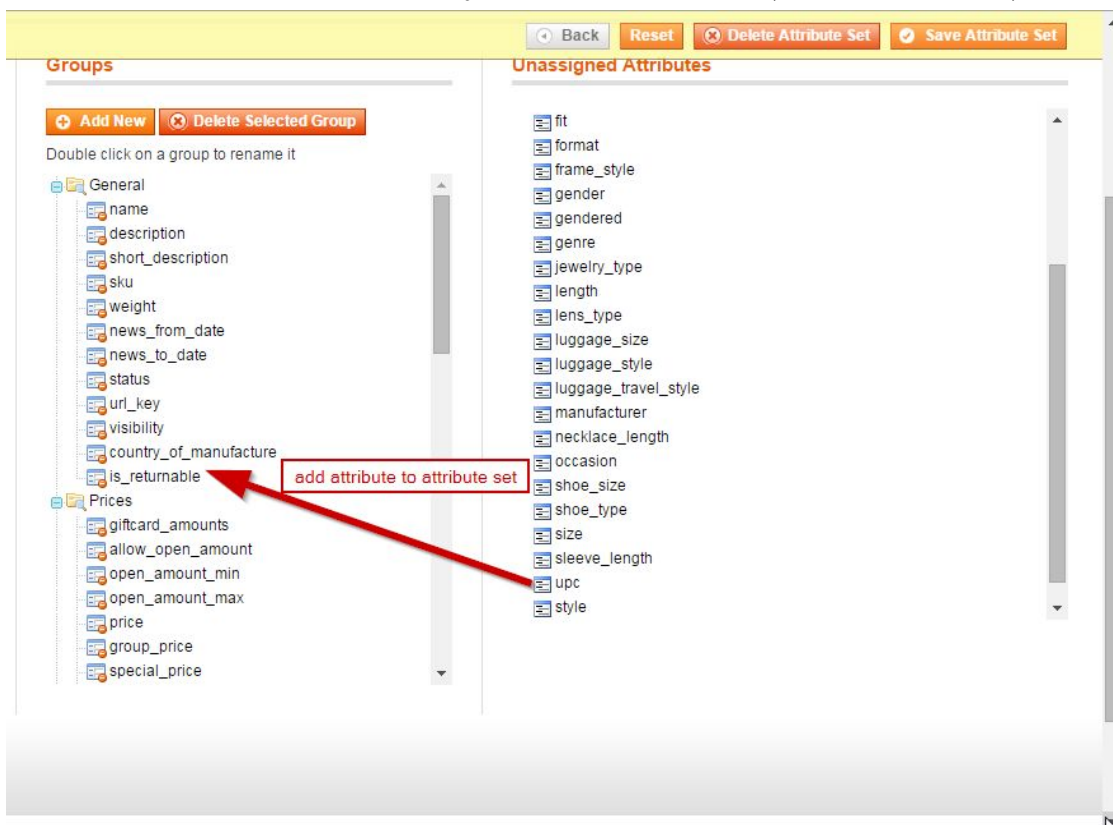
Taxability based on UPC

To manage taxability based on UPC admin is able to configure the following settings in AvaTax Configuration Page (*admin panel > System > Configuration > Sales > Tax > AvaTax*):

- UPC check: this field allows to disable or enable UPC functionality.
 - If “disable” is set, then product SKU will be sent as *ItemCode* in GetTax requests.
 - if “enable” is set, then additional field UPC attribute code appears:
 - when UPC attribute code is empty, product SKU will be sent as *ItemCode* in GetTax requests.
 - If UPC attribute name is entered as UPC attribute code, it means that product UPC will be sent as *ItemCode* in GetTax Requests.

To enable UPC functionality admin needs to:

1. Create new product attribute. To do it, go to *Catalog > Attributes > Manage Attributes* and click “Add new Attribute” (it is also possible to use already created attribute).
2. Add UPC attribute to attribute sets. Go to *Catalog > Attributes > Manage Attribute Sets*. Select Attribute Set and add newly created attribute to it (see picture bellow)



3. Create new product or edit existing one that is based on Attribute Set with added UPC (*admin panel > Catalog > Manage Products*). Fill UPC attribute for product.

Cross-sells
Body Wash with Lemon Flower Extract and Aloe Vera (Home & Decor)
 Product Reviews

Product Tags

Customers Tagged Product

Custom Options

WYSIWYG Editor

SKU * sku-body-wash-with-lemon [GLOBAL]

Weight * 1.0000 [GLOBAL]

Set Product as New from Date [WEBSITE]

Set Product as New to Date [WEBSITE]

Status * Enabled [WEBSITE]

URL Key body-wash-with-lemon-flower-extract-and-aloe-vera [STORE VIEW]

Create Custom Redirect for old URL

upc 111 111 111 111 [STORE VIEW]

Visibility * Catalog_Search [STORE VIEW]

Country of Manufacture [WEBSITE]

Enable RMA Use config [WEBSITE]

fill UPC attribute for product

Now if UPC check is enabled and UPC attribute code is filled with UPC attribute, then UPC value will be sent in GetTax requests as ItemCode.

Please note: UPC is sent as ItemCode only for product that has filled in UPC attribute. If UPC attribute is not filled for product then product SKU will be sent in GetTax Requests. Also if you enable UPC check and enter UPC attribute code, product in Order has empty value for UPC attribute the product SKU will be sent in GetTax requests. So it is not possible to sent ItemCode without value; it will be filled in any way.

Taxability based on UPC works regardless of shipping country and is actual for the following cases:

- tax estimation on Shopping Cart (no matter what product types is added to Cart);
- tax calculation on single checkout (for guests and logged in users);
- tax estimation on multiple checkout;
- Transactions for Invoices;
- Transactions for Credit Memos.

Tax Classes

The main purpose of Tax Classes is to configure special rules for tax calculation or exempt customers from tax.

Admin can configure the following Tax Classes:

- Customer Tax Classes. To configure it go to *Admin Panel > Sales > Tax > Customer Tax Classes*, open existing Customer Tax Class or create new one and enter Avatax code to the field 'AvaTax Code'.

Customer Tax Classes Add New

Page 1 of 1 pages | View 20 per page | Total 6 records found Reset Filter Search

AvaTax Code	Class Name
A	General
	Members Only
	Not Logged-in
	Private Sales
	Retail Customer
	Wholesale Customer

See [AvaTax](#) documentation to find more information about standard avatax codes.

Pay attention that configured Tax Class may be applied to any Customer Group (*admin panel > Customers > Customer Groups*).

Customer Groups Add New Customer Group

Page 1 of 1 pages | View 20 per page | Total 5 records found Reset Filter Search

ID	Group Name	Tax Class
1	General	General
0	NOT LOGGED IN	Not Logged-in
5	Private Sales Member	Private Sales
4	VIP Member	Retail Customer
2	Wholesale	Wholesale Customer

Customer Tax Class Code will be sent as CustomerUsageType in GetTax Requests.

- Products Tax Classes. To configure it go to *Admin Panel > Sales > Tax > Product Tax Classes*, select any Product Tax Class or create new one and enter specific code from Avalara admin panel, which needs to be created and configured there previously.

Product Tax Classes Add New

Page 1 of 1 pages | View 20 per page | Total 4 records found Reset Filter Search

AvaTax Code	Class Name
	Shipping (not used by AvaTax)
BCT00001	Special
	Tax Exempt
	Taxable Goods

Then you should apply configured tax class to products: go to *admin panel > Catalog > Manage Products* select any product (or create new one), open tab *Prices* and select needed tax class for the field 'Tax Class'.

The screenshot displays the 'Prices' configuration page for a product named 'Plaid Cotton Shirt-Royal Blue-L (Clothing)'. The left sidebar shows the 'Product Information' menu with 'Prices' selected. The main content area shows various pricing options:

- Price ***: 160.00 [USD] [GLOBAL]
- Group Price**: Table with columns Website, Customer Group, Price, and Action. Includes an 'Add Group Price' button.
- Special Price**: [USD] [GLOBAL]. Note: The Special Price is active only when lower than the Actual Price.
- Special Price From Date**: [WEBSITE]
- Special Price To Date**: [WEBSITE]
- Tier Price**: Table with columns Website, Customer Group, Qty, Price, and Action. Includes an 'Add Tier' button.
- Apply MAP**: Use config [WEBSITE]
- Display Actual Price**: Use config [WEBSITE]
- Manufacturer's Suggested Retail Price**: [USD] [GLOBAL]
- Tax Class ***: Special [WEBSITE]. A red arrow points to this dropdown menu.

Product Tax Class Code will be sent as TaxCode in GetTax Requests.

- Tax Class for Gift Options. To configure it go to *admin Panel > System > Configuration > Sales > Tax > Tax Classes > Tax Class for Gift Options* and enter any tax class. Tax Class Code will be sent as TaxCode in GetTax Requests for Gift Options Items.

Limit tax calculation requests

Magento AvaTax extension allows to limit tax calculation requests.

To configure limitation of tax calculation requests go to *Admin Panel > System > Configuration > Sales > Tax > Avatax > Limit tax calculation requests*.

The screenshot shows the 'Limit tax calculation requests' configuration page. It contains the following settings:

- Limit tax calculation requests on OneStep checkout**: Enable
- Limit tax calculation requests on Multi-Address Checkout**: Enable
- Disable tax calculation requests on non-checkout actions**: Enable

A warning message is displayed: "Pay Attention. If any custom checkout (like OneStep Checkout) or some modification is used, this may not work properly and is recommended to be disabled."

This section provides the following options:

The first setting limits GetTax requests on OnePage checkout. If this option is enabled, tax will be estimated just before Order Review step and GetTax requests will be reduced from 3 to 1 for default checkout flow.

The second setting has the same behavior and number of GetTax requests in this case will be equal to quantity of addresses used. For example: for 2 addresses used in checkout, Avatax will send only 2 GetTax requests, instead of minimum 5.

The third setting disables GetTax requests on the following actions ('catalog/category/view', 'customer/account/index').

Be aware, that functionality may work incorrectly if any custom checkout (like OneStep Checkout) or some modification is used. It is recommended to disable limit tax calculation requests options in this case.

Tax calculation settings

AvaTax Magento extension has 3 options of tax calculation settings configuration. Overridden settings are hidden and can't be changed in Magento admin panel.

Configuration options:

1. *Catalog Prices = Excluding Tax*

overridden settings:

- a. Apply Customer Tax = After Discount
- b. Shipping Prices = Catalog Prices value (Excluding Tax)
- c. Apply Discount on Prices = Catalog Prices value (Excluding Tax)
- d. Enable Cross Border Trade = No

2. *Catalog Prices = Including Tax and Apply Customer Tax = Before Discount*

overridden settings:

- a. Shipping Prices = Catalog Prices value (Including Tax)
- b. Apply Discount on Prices = Catalog Prices value (Including Tax)
- c. Enable Cross Border Trade = Yes

3. *Catalog Prices = Including Tax and Apply Customer Tax = After Discount*

overridden settings:

- a. Shipping Prices = Catalog Prices value (Including Tax)
- b. Apply Discount on Prices = Catalog Prices value (Including Tax)
- c. Enable Cross Border Trade = Yes

The following option is not currently supported:

- *Catalog Prices = Excluding Tax and Apply Customer Tax = Before Discount*

Other options are overridden and hidden because in these cases it will be necessary to send a huge number of additional requests to Avalara servers.

Custom Duty

System Configuration

You could find *AvaTax Customs Duty* configuration if you browse to *admin -> System / Configuration -> SALES / Tax -> AvaTax Customs Duty Calculator* section under AvaTax section.

Configuration :

- Action. You able to *Enable / Disable* tax calculation that supports *Customs Duty* feature.

Tax

AvaTax

AvaTax Customs Duty Calculator

Customs Duty Calculator		[STORE VIEW]
Action	Enable	[STORE VIEW]
Shipping settings		[STORE VIEW]
Shipping Insurance Sku	ShippingInsurance <small>* Required. The sku sent to denote shipping insurance amount.</small>	[STORE VIEW]
Shipping Insurance Tax Code	FR070100 <small>* Required. Default is FR070100</small>	[STORE VIEW]
Express shipping methods	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Flat Rate</p> <p>Flat Rate</p> <p>Free Shipping</p> <p>Free Shipping</p> <p>Best Way</p> <p>Best Way</p> <p>DHL (Deprecated)</p> <p>International Express</p> <p>Express Saturday</p> <p>Express 10:30 AM</p> <p>Express</p> </div>	[STORE VIEW]
Shipping mapping		[STORE VIEW]
Flat Rate	Ground <small>* Avalara shipping code for this shipping method</small>	
Free Shipping	Air <small>* Avalara shipping code for this shipping method</small>	
Best Way	Ocean <small>* Avalara shipping code for this shipping method</small>	
DHL (Deprecated)	Ground <small>* Avalara shipping code for shipping methods selected in multiselect below.</small>	

- Shipping Insurance Sku. This field contains insurance sku for requests. Please, do not change value without crucial reason.
- Shipping Insurance Tax Code. This field contains Avalara insurance tax code. Please, do not change value without crucial reason.
- Express Shipping Methods. Customs Duty also accepts express parameter for shipping methods. You could choose whether methods are express or not.
- Shipping Mapping. Customs Duty accepts few types of shipping (*ground, air and sea*) as optional parameter that allows to calculate Customs Duty more accurate. This section allows you to map each shipping method that exists in your system to particular Customs Duty shipping type

HS Codes

HS Codes used by Avalara during import duties calculations. These codes represent group of products and they are international. You could identify *HS Code* for each of your product if you browse to Avalara website (<https://www.avalara.com/hs-codes/>).

To create *HS Code* group in AvaTax, please browse to *admin -> AvaTax / AvaTax Customs Duty / HS Code Groups*.

The screenshot shows the 'HS Code Groups' list in the AvaTax admin interface. At the top right, there is a button 'Add New HS Code Group'. Below the header, there are pagination controls: 'Page 1 of 1 pages | View 20 per page | Total 1 records found'. There are also buttons for 'Reset Filter' and 'Search'. Below the pagination, there are selection options: 'Select All | Unselect All | Select Visible | Unselect Visible | 0 items selected' and an 'Actions' dropdown with a 'Submit' button. The table has two columns: 'Id' and 'Description'. The first row has 'Id' 151000 and 'Description' Oils.

	Id	HS Code Group	Description
<input type="checkbox"/>	1	151000	Oils

Code Information tab

HS Code Group Name field, you have to fill it with at least 6 numbers that identify set of products. Please, enter *Description* as well, that will help you to identify what stands for *HS Code*.

The screenshot shows the 'Edit HS Code Group' form in the AvaTax admin interface. The title is 'Edit HS Code Group '151000''. At the top right, there are buttons: 'Back', 'Reset', 'Delete Item', 'Save HS Code Group', and 'Save and Continue Edit'. On the left, there is a sidebar with 'HS Code Group' selected, and sub-items 'HS Code Group Information' and 'HS Codes for Countries'. The main form has a section 'Item Information' with two fields: 'HS Code Group Name *' with the value '151000' and a note 'You can find full list of HS Codes at Avalara website', and 'Description *' with the value 'Oils'.

Tab HS Codes for Countries

This tab represents list of codes by countries, here you need to enter full code with last few numbers and link that code with countries where it is used. Please, review screenshot below.

The screenshot shows the 'Edit HS Code Group' interface for group '151000'. It includes a sidebar with 'HS Code Group Information' and 'HS Codes for Countries'. The main area has a table with columns for 'Id', 'HS Code', and 'Country List'. There are two rows of data:

Id	HS Code	Country List
2	15100099	IN,LI,MX,CH
1	1510009000	BG,CY,CZ,DK,EE,FR,GR,IT,PL

Parameters

Parameters is important part of import duties calculations. Different countries apply duties based on the amount of product crossed the border. You could find pre-installed parameters if you browse to *admin -> AvaTax / AvaTax Customs Duty / Parameters*.

The screenshot shows the 'Parameters' interface. It includes a sidebar with 'Parameters' and 'Add New Parameter'. The main area has a table with columns for 'Id', 'UOM', 'Parameter', 'Description', and 'Country List'. There are two rows of data:

Id	UOM	Parameter	Description	Country List
2	Gram	Mass	Gram	AD,AE,AF,AG,AI,AL,AM,AN,AO,AQ,AR,AS,AT,AU,AW,AX,AZ,BA,BB,BD,BE,BF,BG,BH,BI,BJ,BL,BM,BN,BO,BR,BS,BT,BV,BW,BY,BZ,CA,CC,CD,CF,CG,CI
1	Kilogram	Mass	Kilogram	AD,AE,AF,AG,AI,AL,AM,AN,AO,AQ,AR,AS,AT,AU,AW,AX,AZ,BA,BB,BD,BE,BF,BG,BH,BI,BJ,BL,BM,BN,BO,BR,BS,BT,BV,BW,BY,BZ,CA,CC,CD,CF,CG,CI

Currently Avalara supports only grams and kilograms in customs duty calculations. If Avalara supports more parameters you could easily add them here knowing Avalara Code, Type and countries where this parameter is used.

Agreements

Some countries sign agreements to remove or reduce import duties. If you browse to *admin -> AvaTax / AvaTax Customs Duty / Agreements* you could find agreements installed by default. Currently Avalara supports only NAFTA agreement. Perhaps, there will be more agreements in future and you could easily add them here.

Product Configuration

You should perform Customs Duty configuration per product. Each product edit page contains *AvaTax Customs Duty* tab. Please, review screenshot below.

The screenshot displays the product configuration interface for 'Madison 8GB Digital Media Player (Electronics)'. On the left, a sidebar lists various configuration tabs, with 'AvaTax Customs Duty' selected. The main content area shows the 'AvaTax Customs Duty' configuration for the product. It includes a 'HS Code Group Name' field set to '151000' with a '[GLOBAL]' label. Below this is a 'Parameter' configuration table with columns for 'Parameter', 'Unit', and 'Action'. The table contains one entry: 'Kilogram' with a value of '3' and an '[GLOBAL]' action. An 'Add Parameter' button is visible below the table. At the bottom, there is an 'Agreement' list containing 'NAFTA' with a '[STORE VIEW]' label. The top of the page features navigation buttons: 'Back', 'Reset', 'Delete', 'Duplicate', 'Save', and 'Save and Continue Edit'.

- To apply Customs Duty calculation you need at least to configure *HS Code Group* for product. Then AvaTax during calculation will choose full *HS Code* depending on shipping destination country.
- You can setup Weight units, for ex. Kilogram, that will be used for tax estimation. Parameter dropdown will contain the configured units of measurement at admin -> /Avatax / Avatax Customs Duty / Parameters page. It should be noted that Avalara currently does not support any conversion between units, so if you will try to send pounds while calculating import duties for Germany, Avalara will return error. Also two unit of measurement (for ex. Kilogram and Gram) with the same type (ex. "Mass") should not be defined for the same product when these units of measurement are configured for the same countries.
- Under Parameter configuration you also could see *Agreements* list. Here you could configure the agreements, which are supported for the product.

Seller is an importer flag


Commonly seller configures countries for which he is willing to manage import duties on Avalara side. AvaTax on the other hand has flag that allows to force Avalara to include import duties into grand totals or return them as notification message.

"*Seller is an importer*" flag has three states :

- empty (Avalara configuration is used during calculations)
- Yes (import duties are included into grand totals, Avalara configuration is overridden)
- No (import duties are not included into grand totals, Avalara configuration is overridden)

You could find and use this flag:


- for customer permanently if you browse to *admin -> Customers / Manage Customers -> Edit -> Account Information*.

 **Jane Doe**

Account Information

Associate to Website *	Main Website
Created From	Admin
Group *	General
<input type="checkbox"/> Disable Automatic Group Change Based on VAT ID	
Prefix	
First Name *	Jane
Middle Name/Initial	
Last Name *	Doe
Suffix	
Email *	janedoe@example.com
Date Of Birth	<input type="text"/>
Tax/VAT Number	<input type="text"/>
Gender	<input type="text"/>
<u>Seller is an importer</u>	<input type="text"/>
Avatax Customer Code	<input type="text"/>

- or during order creation via admin panel, where this flag has higher priority.



Order Currency: US Dollar

<h4>Customer's Current Activities</h4> <p>Update Changes</p> <p>Shopping Cart (3)</p> <table><thead><tr><th>Item</th><th>Qty</th><th>Price</th><th></th><th></th></tr></thead><tbody><tr><td>Barclay d'Orsay pump, Nude</td><td>2</td><td>\$390.00</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Alice in Wonderland Blue Horizons Bracelets</td><td>1</td><td>\$5.00</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td></td><td>1</td><td>\$55.00</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table> <p>Clear Shopping Cart</p> <p>Wishlist (1) - All Wishlists -</p> <table><thead><tr><th>Item</th><th>Qty</th><th>Price</th><th></th><th></th></tr></thead><tbody><tr><td>Ludlow Sheath Dress</td><td>1</td><td>\$305.00</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table>	Item	Qty	Price			Barclay d'Orsay pump, Nude	2	\$390.00	<input type="checkbox"/>	<input type="checkbox"/>	Alice in Wonderland Blue Horizons Bracelets	1	\$5.00	<input type="checkbox"/>	<input type="checkbox"/>		1	\$55.00	<input type="checkbox"/>	<input type="checkbox"/>	Item	Qty	Price			Ludlow Sheath Dress	1	\$305.00	<input type="checkbox"/>	<input type="checkbox"/>	<h4>Items Ordered</h4> <table><thead><tr><th>Product</th><th>No c</th></tr></thead><tbody></tbody></table> <h4>Account Information</h4> <table><tr><td>Group *</td><td>General</td></tr><tr><td>Email</td><td>janedoe@example.com</td></tr><tr><td><u>Seller is an importer</u></td><td><input type="text"/></td></tr></table> <h4>Billing Address</h4> <p>Select from existing customer addresses:</p> <p>Jane Doe, 10441 Jefferson Blvd, Suite 200, Culver City, California 90232, United States</p>	Product	No c	Group *	General	Email	janedoe@example.com	<u>Seller is an importer</u>	<input type="text"/>
Item	Qty	Price																																					
Barclay d'Orsay pump, Nude	2	\$390.00	<input type="checkbox"/>	<input type="checkbox"/>																																			
Alice in Wonderland Blue Horizons Bracelets	1	\$5.00	<input type="checkbox"/>	<input type="checkbox"/>																																			
	1	\$55.00	<input type="checkbox"/>	<input type="checkbox"/>																																			
Item	Qty	Price																																					
Ludlow Sheath Dress	1	\$305.00	<input type="checkbox"/>	<input type="checkbox"/>																																			
Product	No c																																						
Group *	General																																						
Email	janedoe@example.com																																						
<u>Seller is an importer</u>	<input type="text"/>																																						

Import duties configuration

You could choose for which countries you want to collect customs duty taxes if you browse to *Avalara admin -> Organization -> choose organization -> Nexus Jurisdictions*, please, review screenshot below :

Country Jurisdictions
Company: Avalara

Define where AvaTax calculates tax

Countries

View: Selected Country: switzerland Begin Date: []

DEFAULT BEGIN DATE: 08/16/2017 DEFAULT END DATE: 12/31/2099

<input checked="" type="checkbox"/>	Country	Importer Of Record	Has Permanent Establishment	Tax ID	Begin Date	End Date	State/Province
<input checked="" type="checkbox"/>	SWITZERLAND	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[]	08/16/2017	12/31/2099	N/A

Records Per Page: [] Go

Then you will have two representations of customs duty on your magento website storefront :

- Import duties included into grand total in the cart :

SUBTOTAL \$2,500.00

SHIPPING & HANDLING (FLAT RATE - FIXED) \$0.00

TAX \$203.20

IMPORTDUTY \$138.98


CUSTOMS DUTY AND IMPORT TAX \$138.98

GRAND TOTAL \$2,842.18

SHIPMENT MEETS CH IMPORT DUTY DE MINIMIS THRESHOLD.
THEREFORE, IMPORT DUTY APPLIES.

PROCEED TO CHECKOUT

- Import duties as a message in the cart :

SUBTOTAL	\$8,000.00
▼ TAX	\$0.00
▼ CUSTOMS DUTY AND IMPORT TAX	\$0.00
GRAND TOTAL \$8,000.00	
SHIPMENT MEETS DE IMPORT DUTY DE MINIMIS THRESHOLD. THEREFORE, IMPORT DUTY APPLIES. ESTIMATED IMPORT CUSTOMS DUTY & TAX CALCULATED. BUYER IS THE IMPORTER OF RECORD AND WILL PAY IMPORT CUSTOMS DUTY & TAX UPON ARRIVAL IN DESTINATION COUNTRY. 138.98 IMPORT DUTY AND 1546.41 VAT APPLIES.	
message 	<input type="button" value="PROCEED TO CHECKOUT"/>
Checkout with Multiple Addresses	

Third parties integrations

AvaTax stores all collected import duties in special fields

- avatax_landed_cost_import_duties_amount
- base_avatax_landed_cost_import_duties_amount

You also could find all collected tax in json format in additional special field avatax_collected_taxes.

These all fields are present for entities listed below :

- quote_address
- quote_item

- order
- order_item

- invoice
- invoice_item

- creditmemo
- creditmemo_item

Shipping Insurance

AvaTax extension has special event that allows seller to include into request shipping insurance amount during tax calculation. Extension has such implementation because sellers could use some third party for insurance amount calculations. Please, review *avatax_landed_cost_request_tax_insurance_needs* event.

Document Management (Exemption Certificates)

Seller Side

System Configuration

Seller could find AvaTax Document Management configuration if you browse to *admin -> System / Configuration -> SALES / Tax -> AvaTax Document Management* section under *AvaTax Custom Duty Calculator* section.

Configuration :

- Action. You able to *Enable / Disable* document management for magento customers.

AvaTax		
AvaTax Customs Duty Calculator		
AvaTax Document Management		
Action	<input type="text" value="Enable"/>	[STORE VIEW]
Rest V2 Api		[STORE VIEW]
URL	<input type="text" value="Production (https://rest.avatax.com/)"/>	[STORE VIEW]
Account Number	<input type="text" value="mark.withers82+ac@gmail.com"/>	[STORE VIEW]
Key	<input type="text" value="Victory18!"/>	[STORE VIEW]
Company Code	<input type="text" value="Avalara (DEFAULT)"/> <small>▲ Your company code from the AvaTax main configuration.</small>	[STORE VIEW]
Cart capture Api		[STORE VIEW]
URL	<input type="text" value="Production (https://api.certcapture.com/)"/>	[STORE VIEW]
Username	<input type="text" value="astoundcomsdk"/>	[STORE VIEW]
Password	<input type="text" value="Victory12!"/>	[STORE VIEW]
Client id	<input type="text" value="71011"/>	[STORE VIEW]
Company Code	<input type="text" value="Avalara (DEFAULT)"/> <small>▲ Your company code from the AvaTax main configuration.</small>	[STORE VIEW]

To connect Avatax extension you should enter valid credentials:

- REST V2 credentials :
 - URL: production or development endpoint urls

- Account Number : this string is a UUID issued by Avalara to identify the Avalara account that owns the company identified by the Company Code. Mostly it's the same value as you used in *AvaTax / Connection Settings* section.
 - Key : the Authorization is used to identify the actor (person or system) making the request. Mostly it's the same value as you used in *AvaTax Connection Settings* section.
- Cart capture Api
- URL: production or development endpoint urls
 - Username & Password : seller credentials to access Cart Capture Api
 - Client ID: seller client ID in Avalara Cart Capture system.

Customer / AvaTax Documents tab

Customer Information

- Customer View
- AvaTax Documents**
- Account Information
- Addresses
- Orders
- Billing Agreements
- Recurring Profiles (beta)
- RMA
- Shopping Cart
- Wishlist
- Newsletter
- Product Reviews
- Product Tags
- Store Credit
- Gift Registry
- Reward Points

Back Reset

Jane Doe

General Information

Customer Number

Send invitation e-mail to customer.

Update Customer Information in Avalara.

Page of 1 pages | View per page | Total 12 records found

Select All | Unselect All | Select Visible | Unselect Visible | 0 items selected

	ID	Valid	Verified	Exposure Zone	Exemption Re
Any	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	80	Yes	No	Washington	RESALE
<input type="checkbox"/>	79	Yes	No	Washington	RESALE
<input type="checkbox"/>	78	Yes	No	Washington	RESALE
<input type="checkbox"/>	77	Yes	No	Washington	RESALE
<input type="checkbox"/>	70	Yes	No	California	RESALE
<input type="checkbox"/>	40	Yes	No	Texas	RESALE
<input type="checkbox"/>	38	Yes	No	New Jersey	RESALE
<input type="checkbox"/>	37	Yes	No	Nevada	RESALE
<input type="checkbox"/>	35	Yes	No	Idaho	RESALE

General Information

- Customer Number : it's crucial aspect of Document Management, this number is used during tax calculation and tax exemption. Seller could fill Customer Number to link already registered customer in Avalara with magento Customer Account or leave it blank. If Customer Number is blank during exemption certificate creation then extension generates Customer Number itself. Customer email is used for this purpose but if customer email contains symbols that have to be escaped then magento customer id is used. Seller has to know that Customer Number is magento customer attribute that means *AvaTax / Data Mapping / Customer Code Format* should be configured as *customer attribute*, well seller could use any customer attribute but we suggest to use *avatax_customer_code*.

- [Send invitation email to customer] button : this button sends invitation letter to customer from Avalara.
- [Update Customer Information in Avalara] button: allows seller to register new customer in Avalara or update existing one.

Certificates grid

Page 1 of 1 pages | View 20 per page | Total 12 records found

Reset Filter Search New Certificate

Select All | Unselect All | Select Visible | Unselect Visible | 0 items selected

ID	Valid	Verified	Exposure Zone	Exemption Reason	Signed Date	Expiration Date	Actions
80	Yes	No	Washington	RESALE	Jul 23, 2018 5:00:00 PM	Dec 30, 9999 4:00:00 PM	Revoke View Download
79	Yes	No	Washington	RESALE	Jul 23, 2018 5:00:00 PM	Dec 30, 9999 4:00:00 PM	Revoke View Download
78	Yes	No	Washington	RESALE	Jul 23, 2018 5:00:00 PM	Dec 30, 9999 4:00:00 PM	Revoke View Download
77	Yes	No	Washington	RESALE	Jul 23, 2018 5:00:00 PM	Dec 30, 9999 4:00:00 PM	Revoke View Download
70	Yes	No	California	RESALE	Jul 18, 2018 5:00:00 PM	Dec 30, 9999 4:00:00 PM	Revoke View Download

Allows seller to Revoke, View and Download certificates. Seller also available to print certificate when seller view it. All certificates presented in pdf format.

Streamlined Sales and Use Tax Agreement Certificate of Exemption - Google Chrome

Не защищено | avcerts11434b.loc/index.php/admin/avaTaxAr2_grid/documentGetPDF/id/80/

Streamlined Sales and Use Tax Agreement ... 1 / 1

Customer # 100

Streamlined Sales and Use Tax Agreement Certificate of Exemption

This is a multistate form. Not all states allow all exemptions listed on this form. Purchasers are responsible for knowing if they qualify to claim exemption from tax in the state that would otherwise be due tax on this sale. The seller may be required to provide this exemption certificate (or the data elements required on the form) to a state that would otherwise be due tax on this sale.

The purchaser will be held liable for any tax and interest, and possibly civil and criminal penalties imposed by the member state, if the purchaser is not eligible to claim this exemption. A seller may not accept a certificate of exemption for an entity-based exemption on a sale made at a location operated by the seller within the designated state if the state does not allow such an entity-based exemption.

- Check if you are attaching the Multistate Supplemental form.
 WA If not, enter the two-letter postal abbreviation for the state under whose laws you are claiming exemption.
- Check if this certificate is for a single purchase and enter the related invoice/purchase order # _____
- Please print**

Name of purchaser MWithers				
Business Address 8181 QUAIL HILL RD NE		City BAINBRIDGE ISLAND	State WA	Zip Code 98110-3621
Purchaser's Tax ID Number		State of Issue	Country of Issue	
If no Tax ID Number Enter one of the following:	FEIN	Driver's License Number/State Issued ID Number		Foreign diplomat number
State of Issue: 123123		Number: 123123		
Name of Seller from whom you are purchasing, leasing or renting Avalara				
Reseller's address 8181 Quail Hill Road NE		City Bainbridge Island	State WA	Zip Code 98110-268
- Type of business.** Circle the number that describes your business

Seller allows to create certificate for particular customer from grid with [New Certificate] button. When [New Certificate] button is pressed Avalara New Certificate Creation Wizard appears.

Create Exempt Certificate

Customer number *

State/Province *

Customer Side

Magento customer has ability to create, revoke, view and download certificates via *My Account / AvaTax Documents* tab in customer cabinet. Customer able to print certificate while customer views it.

- [MY ACCOUNT](#)
- [ACCOUNT DASHBOARD](#)
- [ACCOUNT INFORMATION](#)
- [ADDRESS BOOK](#)
- [MY ORDERS](#)
- [BILLING AGREEMENTS](#)
- [RECURRING PROFILES](#)
- [MY PRODUCT REVIEWS](#)
- [MY WISHLIST](#)
- [MY APPLICATIONS](#)
- [NEWSLETTER SUBSCRIPTIONS](#)
- [MY DOWNLOADABLE PRODUCTS](#)
- [STORE CREDIT](#)
- [GIFT CARD](#)
- [GIFT REGISTRY](#)
- [REWARD POINTS](#)
- [MY RETURNS](#)
- [MY INVITATIONS](#)
- [AVATAX DOCUMENTS](#)
- [ORDER BY SKU](#)

AVATAX DOCUMENTS

1-10 of 12 SHOW:

DOC #	EXPOSURE ZONE	EXEMPTION REASON	SIGNED DATE	EXPIRATION DATE			
40	Texas	RESALE	7/3/2018		REVOKE	VIEW	DOWNLOAD
38	New Jersey	RESALE	7/3/2018		REVOKE	VIEW	DOWNLOAD
5	Idaho	RESALE	4/22/2018	4/22/2021	REVOKE	VIEW	DOWNLOAD
30	Iowa	RESALE	7/3/2018		REVOKE	VIEW	DOWNLOAD
37	Nevada	RESALE	7/3/2018		REVOKE	VIEW	DOWNLOAD
79	Washington	RESALE	7/23/2018		REVOKE	VIEW	DOWNLOAD
34	California	RESALE	7/3/2018		REVOKE	VIEW	DOWNLOAD
35	Idaho	RESALE	7/3/2018	7/3/2021	REVOKE	VIEW	DOWNLOAD
70	California	RESALE	7/18/2018		REVOKE	VIEW	DOWNLOAD
80	Washington	RESALE	7/23/2018		REVOKE	VIEW	DOWNLOAD

When [Create New Exempt Certificate] button is pressed *Avalara New Certificate Creation Wizard* appears. Customer also able to create new certificate in a cart and during *Order Review* step via special button [Is This Purchase Tax-Exempt?]

SUBTOTAL	\$450.00
TAX	\$46.14

IS THIS PURCHASE TAX-EXEMPT?

GRAND TOTAL \$496.14

PROCEED TO CHECKOUT

PRODUCT	PRICE	QTY	SUBTOTAL
BARCLAY D'ORSAY PUMP, NUDE <i>Color:</i> Taupe <i>Shoe size:</i> 7	\$390.00	1	\$390.00
ALICE IN WONDERLAND <i>Links:</i> Alice in Wonder	\$5.00	1	\$5.00
BLUE HORIZONS BRACELETS	\$55.00	1	\$55.00
Subtotal			\$450.00
Shipping & Handling (Flat Rate - Fixed)			\$10.00
Tax			\$47.18
Grand Total			\$507.18

IS THIS PURCHASE TAX-EXEMPT?

PLACE ORDER

[Forgot an Item? Edit Your Cart](#)

Error Handling

Error Handling allows to set up system behavior and control error messages in case when tax cannot be calculated. This setting makes sense only when *Validation: disabled*. If Validation is enabled, then *Action on Error* is ignored.

To set up *Error Handling* go to *Admin Panel > System > Configuration > Sales > Tax > Avatax: Error Handling*.

Error Handling		[STORE VIEW]
Action on Error	Allow checkout without charging tax (no error n ▾)	[STORE VIEW]
Frontend Error Message	Unfortunately, we could not calculate tax for your order. Please try again with a different address or contact us to complete your order.	[STORE VIEW]
Backend Error Message	There was an error getting tax rates from Avalara. Please see the error log for details.	[STORE VIEW]
Notification Toolbar	Enable ▾ <small>▲ If there are issues syncing invoice or credit memo data, show warning in admin notification toolbar.</small>	[GLOBAL]

Admin can configure the following settings:

- Action on Error: it controls system behavior when tax cannot be calculated. Pay attention that Action on Error has lower priority than Validation and Normalization settings so if you prefer to use Action on Error please disable setting under “Shipping Address Options” block in AvaTax Configuration Page.

Admin is able to select one of two available values for Action on Error:

- Disable checkout and show error message. When user enters non taxable Shipping Address, error message is displayed and user is not able to go to the next Checkout Step. In case when Validation is set to “Enable+Allow order” and non-taxable address is provided, user is able to complete the checkout without

charging tax. If user calculates tax in Estimation block of Shopping Cart then error message is displayed.

- Allow checkout without charging tax (no error message). This setting blocks Validate Request: it is not sent during placing Order. After entering non taxable Shipping Address, user is able to go to the next Checkout Step and place Order. If user calculates tax in Estimation block of Shopping Cart then error message is not displayed and user is able to go to Checkout. Pay attention that if Validation is set to "Enable+Prevent Order" then user will not be able to place Order with non taxable address - error message will be shown.
- Frontend Error Message: this message is displayed on StoreFront (Shopping Cart and Checkout) if tax cannot be calculated
- Backend Error Message: this message is displayed when admin places an Order and tax cannot be calculated
- Notification Toolbar: this will be displayed on all admin pages if there are any errors with items in the Queue (like admin messages).

The screenshot shows the Magento Enterprise Admin Panel. At the top, there is a notification toolbar with several messages. One message is highlighted with a red box: "AvaTax: There are 2 entries in the AvaTax Order Sync Queue that have errored. Syncing is attempted 5 times before permanently failing." Below this, a red-bordered box contains the text: "When Notification Toolbar: enable, then message displays in admin panel if there are any errors with items in the Queue". Below the notification toolbar is the "AvaTax Order Sync Queue" table. The table has columns for Queue Id, Store Id, Entity Id, Entity Increment Id, Type, Status, Attempt, Message, Created At, and Updated At. The table contains 4 rows of data.

Queue Id	Store Id	Entity Id	Entity Increment Id	Type	Status	Attempt	Message	Created At	Updated At
1	1	43	140000261	Invoice	Complete	1		Nov 26, 2015 4:26:08 AM	Nov 26, 2015 4:26:28 AM
2	1	8	140000261	Credit memo	Complete	1		Nov 26, 2015 4:26:15 AM	Nov 26, 2015 4:26:29 AM
3	1	44	140000262	Invoice	Complete	1		Nov 26, 2015 8:44:54 AM	Nov 26, 2015 8:45:37 AM
4	1	9	140000262	Credit memo	Complete	1		Nov 26, 2015 8:45:01 AM	Nov 26, 2015 8:45:38 AM

You can read more about Queue on [Order Sync Queue Page](#).

Filter Requests

Filter Requests allow to calculate taxes and validate addresses only for some Countries / States / Provinces. Because of *Filter Requests* settings it is possible to decrease number of Requests to Avalara by filtering Shipping Addresses. If Shipping Address is filtered then *Filter* log is displayed instead of Validate and GetTax Logs.

Go to *Admin Panel > System > Configuration > Sales > Tax > Avatax: Connection Settings* to configure Filter Requests.

Admin is able to configure the following settings:

- Taxable Country: select countries to be taxable
- Filter Requests by Region: this allows admin to select one of the following values:
 - None: Validation / Normalization and Tax calculation is performed for all countries specified under *Taxable Country* field
 - Filter tax calculations: Tax calculation and reporting only occur for the regions selected – address validation and normalization still occur for all transactions
 - Filter tax calculations & address options: All types of Avatax services (Validation, Normalization, Tax Calculation) only occur for the regions selected
- Taxable Regions: this field appears only if *Filter Requests by Region* equals “Filter tax calculations” or “Filter tax calculations & address options”. Taxable Regions allow to control Avatax Request only for selected regions.

Example #1:

Taxable Country: United States

Filter Requests by Region: None

In this case tax, validation and normalization will be performed for any US states. If user selects Shipping Address with other country tax, validation and normalization will not be performed.

Example #2:

Taxable Country: United States

Filter Requests by Region: Filter tax calculations

Taxable Regions: New York

In this case tax is calculated only for New York state of US. Validation and Normalization are performed for all states of US. So if user on StoreFront selects New Jersey state for Shipping, Validation and Normalization are performed, but tax is not calculated. *Filter* log will be displayed instead of Validation Log (Validation Request is not sent).

Example #3:

Taxable Country: United States

Filter Requests by Region: Filter tax calculations & address options

Taxable Regions: New York

In this case tax, validation and normalization will be performed only for New York state of US. So *Filter* log is displayed instead of Validation, GetTax logs (Requests to Avalara are not sent).

Filter log is not an actual request to Avalara; it is just notice that address was filtered. See [Logging](#) to find more information about logs.

Request Settings

Request Settings allow to decrease number Avatax Requests by blocking Avatax Process if StoreFront User tries to enter invalid data that is marked as 'Prohibited' in Admin Panel.

Request Settings [STORE VIEW]

Required Fields [STORE VIEW]

- prefix
- First Name
- Middle Name
- Last Name
- suffix
- Full Address
- Address

Field Rule [STORE VIEW]

-

▲ Example: ', -_''

To set up Request Settings go to *Admin Panel > System > Configuration > Sales > Tax > Avatax: Request Settings*.

You can configure the following settings to activate Request Settings:

- **Required Fields:** if some field is selected, it means that value entered to equivalent field of Shipping Address on Checkout should not be empty or should not be equal value from *Field Rule*. Admin is able to select one or few *Required Fields*.
- **Field Rule:** value for Required Fields. Admin is able to enter one or few values via commas. So user should be able to go to the next Checkout Steps only if *Required Field* in Shipping Address is not empty and is not equal value from *Field Rule*.

Please note that entered *Field Rule* values work for all selected *Required Fields* so it is impossible to specify different Rules for different Required Fields.

Request Settings are actual and make sense in case when Validation will be performed for the Shipping Address. If shipping country or region is not selected as taxable and Validation is not performed, then Request Settings Verification is ignored. See [Filter Requests](#) to find more information about settings of taxable and non taxable countries.

Example:

Required Fields: Company

Field rule: ' , - _'

In this case, when user goes to checkout and enters / selects Shipping Address, system verifies "Does the Company field is empty?", "Does the Company field equal ' ' (space), '-' (dash) or '_' (upper dash)?" . If answer for one of these questions is "Yes" then error message is displayed and user is not able to go to the next Checkout Steps till he / she enters valid value for Company Code. If error message is displayed then Validation and GetTax requests are not sent.

Logging

Data logging is used to collect information about any Avatax actions or requests to Avalara. Logs are saved to Avatax Log table (*Admin Panel > Sales > Tax > Avatax Logs*).

To configure Logs go to *Admin Panel > System > Configuration > Sales > Tax > Avatax : Log & Queue Settings*.

Log & Queue Settings		[STORE VIEW]
Log Mode	<input type="text" value="Log all actions (recommended)"/>	[STORE VIEW]
Enable advanced logs	<input type="text" value="Yes"/> <small>▲ Collects related data for order, invoice and creditmemo</small>	[GLOBAL]
Log Entry Lifetime	<input type="text" value="7"/> <small>▲ Required. Days before entries are auto-purged.</small>	[GLOBAL]
Successful Queue Lifetime	<input type="text" value="7"/> <small>▲ Required. Days before entries are auto-purged.</small>	[GLOBAL]
Failed Queue Lifetime	<input type="text" value="60"/> <small>▲ Required. Days before entries are auto-purged.</small>	[GLOBAL]
Log Type	<input type="text" value="Ping"/> <input type="text" value="GetTax"/> <input type="text" value="Filter"/> <input type="text" value="Validate"/> <input type="text" value="Queue"/>	[GLOBAL]
<input type="button" value="Export Logs"/> <input type="button" value="Export Queue"/>		[GLOBAL]

Admin is able to configure the following Logs Settings:

- Log Mode: admin is able to choose what logs should be saved to table. There are three available values:
 - Log only errors: it means that only logs with Level "Error" will be saved. Successful entries will be ignored
 - Log all actions (recommended): all Error and Successful Logs will be saved to Avatax Log table
- Enable Advanced Logs: if turned on then log layer collects related data for orders, invoices and credit memos.
- Log Entry Lifetime: Records in the Log are automatically deleted after time period specified
- Log Type: only selected log types will be saved to Logs table. Not selected logs Types will be ignored and will not be saved to table.
There are 5 Logs Types:
 - Ping: it is not Request to Avalara; it is a log that says about Avatax configuration changes. Every time when admin saves Avatax extension changes, log Ping is saved to Logs table. if Avatax is saved with invalid configurations then Level of Ping Log is "Error"; if Avatax is saved with valid configurations, Ping log is present with level "Success"
 - GetTax: it is a request to Avalara. Every time when tax for Order needs to be calculated GetTax request is sent and appropriate log is saved to Log table. If tax can be calculated by Avalara and its value is sent in Response, then GetTax Log has Level "Success". If tax cannot be calculated and error is sent in Response, GetTax is saved with Level "Error". Another case for GetTax log is related to Invoice and Credit Memo. GetTax is sent when tax for Invoice or Credit Memo needs to be calculated.
 - Validate: it is a request to Avalara to validate and normalize shipping address. Validate request is sent with Shipping Address; normalized Shipping Address is returned in Response. Validate log has "Success" level if Avalara can validate / normalize shipping address; if error message instead of normalized Shipping address is sent in Response then Validate log is saved with level "Error"
 - Filter: it is not request to Avalara. It is just log that is displayed when tax or validation / normalization cannot be performed because of Request Settings. If Shipping Address is filtered and tax or validation / normalization cannot be performed, log Filter displays.

Filter log can be displayed with only "Success" Level. See [Filter Requests](#) to get more info.

- Queue: it is not an actual request to Avalara. When Queue log is present in table it means that any operation with Invoice / Credit Memo were performed: adding Invoice / Credit Memo to Avatax Order Sync Queue table; sending Invoice / Credit Memo from Avatax Order Sync Queue table to Avalara admin; deleting Queue entries from table.

Avatax Action Log table consists of the following columns:

- Log Id: it is the log sequence number
- Store Id: identification number of store which Avatax operation or request was performed from.
- Level: it indicates successful or failed requests. If Avatax operation or request is successful then log displays with Level "Success"; if error display in Response and operation is unsuccessful then Log Level is "Error".
- Type: Avatax operation or request name is displayed (log types were described previously)
- Quote Id: all sales documents come from quote and are linked to quote.
- Quote Address Id: all calculations based on quote shipping or billing addresses. Column contains quote address id that was used during tax calculations for particular Avalara request.
- Order #: magento sales order incremental id. Column's data can't be filtered or sorted.
- Invoice #: magento invoice incremental id. There can be multiple invoices per quote address id if partial invoicing took place. Column's data can't be filtered or sorted.
- Credit Memo #: magento credit memo incremental id per each magento invoice. Column's data can't be filtered or sorted.
- Created At: date when Log / Request is created / sent

To see table with logs go to *Admin Panel > Sales > Tax > AvaTax Log*.

AvaTax Action Log

Page 1 of 1 pages | View 20 per page | Total 10 records found

Reset Filter Search

Log Id	Store Id	Level	Type	Quote Id	Quote Address Id	Order #	Invoice #	Credit Memo #	Created At
From:	From:			697					From:
To:	To:			records are filtered					To:
49		1 Success	Queue	697	2637	145000005		160006301	Oct 18, 2017 3:45:43 AM
48		1 Error	GetTax	697	2637	145000005		160006301	Oct 18, 2017 3:45:43 AM
47		1 Success	Queue	697	2637	145000005	160006301		Oct 18, 2017 3:45:43 AM
46		1 Error	GetTax	697	2637	145000005	160006301		Oct 18, 2017 3:45:43 AM
45		1 Success	Queue	697	2637	145000005		160006301	Oct 18, 2017 3:45:22 AM
44		1 Success	Queue	697	2637	145000005	160006301		Oct 18, 2017 3:45:11 AM
39		1 Success	Validate	697	2637	145000005			Oct 18, 2017 3:37:12 AM
38		1 Success	GetTax	697	2637	145000005			Oct 18, 2017 3:37:02 AM
37		1 Success	GetTax	697	2637	145000005			Oct 18, 2017 3:36:56 AM
35		1 Success	GetTax	697	2637	145000005			Oct 18, 2017 3:36:46 AM

Any log contains Request, Response and Additional information block.

Request

GetTaxRequest Object

```

{
  [CompanyCode:GetTaxRequest:private] => onepica
  [DocCode:GetTaxRequest:private] => quote-2660
  [DocType:GetTaxRequest:private] => SalesOrder
  [DocDate:GetTaxRequest:private] => 2016-03-02
  [SalespersonCode:GetTaxRequest:private] => Magento
  [CustomerCode:GetTaxRequest:private] => (Guest)
  [CustomerUsageType:GetTaxRequest:private] =>
  [Discount:GetTaxRequest:private] => 0
  [PurchaseOrderNo:GetTaxRequest:private] =>
  [ExemptionNo:GetTaxRequest:private] =>
  [OriginCode:GetTaxRequest:private] => 0
  [DestinationCode:GetTaxRequest:private] => 1
  [Addresses:GetTaxRequest:private] => Array
    (
      [0] => Address Object
        (
          [AddressCode:Address:private] => 0
          [Line1:Address:private] =>
          [Line2:Address:private] =>
          [Line3:Address:private] =>
          [City:Address:private] =>
        )
    )
  }

```

Response

GetTaxResult Object

```

{
  [DocCode:GetTaxResult:private] => quote-2660
  [DocId:GetTaxResult:private] => 0
  [AdjustmentDescription:GetTaxResult:private] =>
  [DocDate:GetTaxResult:private] => 2016-03-02
  [TaxDate:GetTaxResult:private] => 2016-03-02
  [DocType:GetTaxResult:private] => SalesOrder
  [DocStatus:GetTaxResult:private] => Temporary
  [Reconciled:GetTaxResult:private] =>
  [Locked:GetTaxResult:private] =>
  [Timestamp:GetTaxResult:private] => 2016-03-02T13:14:00.9189461Z
  [TotalAmount:GetTaxResult:private] => 51.44
  [TotalDiscount:GetTaxResult:private] => 0
  [TotalExemption:GetTaxResult:private] => 0
  [TotalTaxable:GetTaxResult:private] => 51.44
  [TotalTax:GetTaxResult:private] => 4.56
  [AdjustmentReason:GetTaxResult:private] => 0
  [Version:GetTaxResult:private] => 1
  [TaxLines:GetTaxResult:private] => stdClass Object
    (
      [TaxLine] => Array
    )
  }

```

Additional

Admin is able to Export Logs table with all existing records in it. To do this go to *Admin Panel > System > Configuration > Sales > Tax > Avatax > Log & Queue Settings > Export Logs*)

Order Sync Queue

All Orders can be transferred to Avalara admin with the purpose to formulate reports and detailed statistics. To sync with Avalara admin panel, Invoice and/or Credit Memo should be created for Order.

Invoices and Credit Memos that are prepared for sending to Avalara admin are collected into Order Sync Queue table.

To configure Avatax Order Sync Queue go to *Admin Panel > System > Configuration > Sales > Tax > Avatax > Action: enable: calculate tax, submit data*

To see Queue table go to *Admin Panel > Sales > Tax > AvaTax Order Sync Queue*.

AvaTax Order Sync Queue

Page 1 of 1 pages | View 20 per page | Total 7 records found

Clear Queue Now Process Queue Now Reset Filter Search

Queue Id	Store Id	Entity Id	Entity Increment Id	Type	Status	Attempt	Message	Created At	Updated At	Actions
1	1	43	160002556	Invoice	Complete	1		Dec 7, 2015 7:56:01 AM	Dec 7, 2015 8:05:03 AM	
2	1	44	160002557	Invoice	Complete	1		Dec 7, 2015 7:59:48 AM	Dec 7, 2015 8:05:04 AM	
3	1	45	160002558	Invoice	Complete	1		Dec 7, 2015 9:03:22 AM	Dec 7, 2015 9:03:31 AM	
4	1	8	160002556	Credit memo	Complete	1		Dec 7, 2015 9:03:27 AM	Dec 7, 2015 9:03:32 AM	
5	1	46	160002559	Invoice	Pending	0		Dec 7, 2015 9:03:47 AM	Dec 7, 2015 9:03:47 AM	
6	1	9	160002557	Credit memo	Pending	0		Dec 7, 2015 9:03:53 AM	Dec 7, 2015 9:03:53 AM	
7	1	47	160002560	Invoice	Failed	5	DocStatus is invalid for this operation.	Dec 7, 2015 9:04:47 AM	Dec 7, 2015 9:04:47 AM	Set pending status

When Action is "enable: calculate tax, submit data" or "enable: calculate tax, submit data and commit" Invoices/Credit Memos are automatically sent to AvaTax Order Sync Queue table after its creation with *Uncommitted* or *Committed* status respectively. When Invoices / Credit Memos are present in Queue table they can be sent to Avalara admin by clicking "Process Queue Now" button on "Avatax Order Sync Queue" tab. In this case all data from Avatax Order Sync Queue is delivered to Avalara Admin.

There are 5 different statuses of Orders/Invoices/Credit memos:

1. Pending: all Invoices / Credit Memos are sent to Order Sync Queue table with statuses "Pending". Pending status means that Invoice / Credit Memo is new and it is not present in Avalara Admin.
2. Retry Pending: when admin tries to send Invoices / Credit Memos to Avalara Admin but attempt is unsuccessful, Invoices / Credit Memos are returned with status "Retry Pending". Reasons of unsuccessful attempt:
 - a. order is placed with non taxable address;
 - b. AvaTax is saved with invalid Connection Settings;
 - c. Invoices / Credit Memos IDs already exist in Avalara admin.

Invoices / Credit Memos can be returned with statuses "Retry Pending" four times. When Retry Pending Queue is sent fifth time and attempt is unsuccessful, then Queue returns with status "Failed".

3. Failed status means that Invoices / Credit Memos are sent to Avalara Admin fifth time and no one attempt is successful. Queue item status can be changed from "Failed" to "Pending" using "Set pending status" link.
4. Unbalanced. Since tax rates and configurations can change, the tax amount of orders can also change from the time the customer checks out and when orders are invoiced. If this happens, items in the queue will change to Unbalanced status and the difference will be recorded. Magento will continue to use the old amount (since that is what you collected from the customer) and the AvaTax dashboard will show the correct amount to be paid to the respective jurisdiction.

Example: To make status of Invoices / Credit Memos Unbalanced you should:

- a. place order on StoreFront;
 - b. open order as admin (admin panel > Sales > Orders);
 - c. change Shipping Address to new one;
 - d. create Invoice/Credit Memo for Order;
 - e. send Queue to Avalara Admin.
5. Complete. When Invoice / Credit Memo is successfully sent to AvaTax admin console, it returns with status "Complete".

When Invoice / Credit Memo is created, it is automatically sent to Queue, Log "Queue" created in Log table (*admin panel > Sales > Tax > Avatax Logs*). Queue is not a request; it is just log that indicates fact about Queue process.

When Invoice / Credit Memo sends to Avalara admin, Logs "Queue" and "GetTax" are created in Log table.

To delete Queue with statuses "Complete", "Failed", "Unbalanced" manually, you can click a button "Clear Queue Now". When admin deletes Queue, log "Queue" creates.

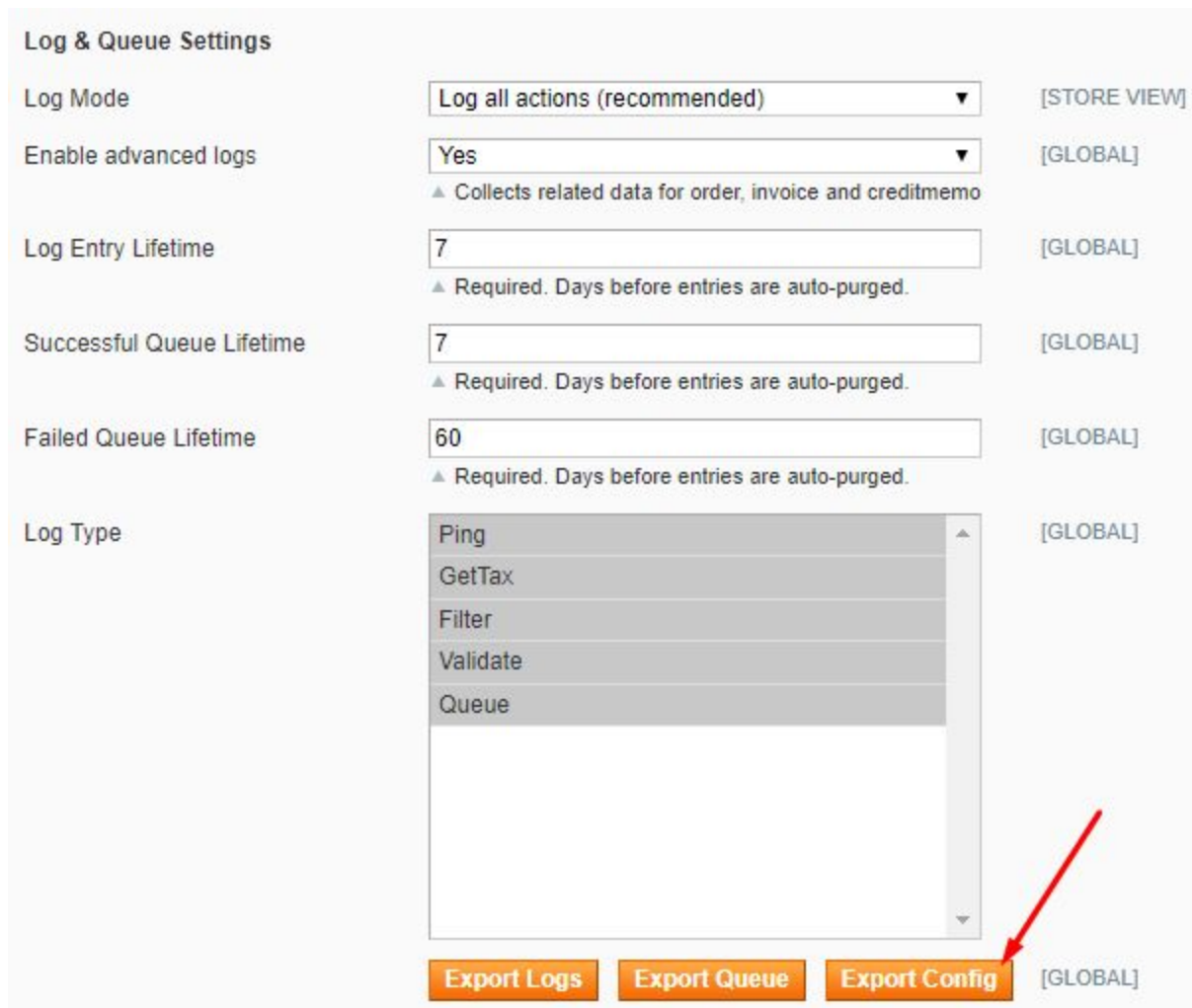
Admin is able to set up the following configuration to delete Queue automatically (*Admin Panel > System > Configuration > Sales > Tax > Avatax > Log & Queue Settings*):

- Successful Queue Lifetime: Successful queue entries (Invoices / Credit Memos with statuses "Complete") are automatically deleted after time specified.
- Failed Queue Lifetime: Invoices / Credit Memos with statuses "Failed" and "Unbalanced" are automatically deleted after time specified.

Admin is able to Export Queue with all existing records in it. To do this go to *Admin Panel > System > Configuration > Sales > Tax > Avatax > Log & Queue Settings > Export Queue*).

Export AvaTax Configuration

You could export configuration of AvaTax extension. To do this go to Admin Panel > System > Configuration > Sales > Tax > Avatax > Log & Queue Settings and press [Export Config] button. Please, review screenshot below.



Log & Queue Settings

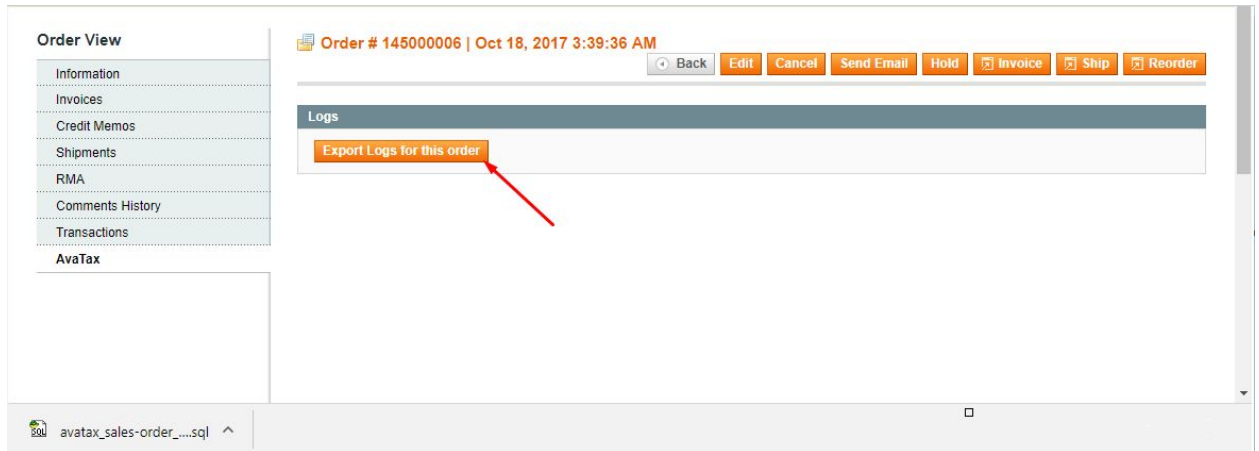
Log Mode	Log all actions (recommended) ▼	[STORE VIEW]
Enable advanced logs	Yes ▼ ▲ Collects related data for order, invoice and creditmemo	[GLOBAL]
Log Entry Lifetime	7 ▲ Required. Days before entries are auto-purged.	[GLOBAL]
Successful Queue Lifetime	7 ▲ Required. Days before entries are auto-purged.	[GLOBAL]
Failed Queue Lifetime	60 ▲ Required. Days before entries are auto-purged.	[GLOBAL]
Log Type	<ul style="list-style-type: none">PingGetTaxFilterValidateQueue	[GLOBAL]

[Export Logs](#) [Export Queue](#) [Export Config](#) [GLOBAL]

Order Logs Export

Magento Sales Order view screen contains AvaTax tab with *Export Logs* button for this order. Button is enabled if advanced logging is turned on in extension configuration. When you

press export button, you will download detailed transaction logs as well as database data for particular order and all related sales documents.



List of hidden and overridden settings

When Avatax is installed and enabled, some default Magento settings are hidden and their behaviour is overridden.

System > Configuration > Sales > Tax > Tax Classes section

- *Tax Class for Shipping* - Set to Default Avatax shipping code *FR020100*

System > Configuration > Sales > Tax > Calculation Settings section

- *Tax Calculation Method Based On* - Set to *Total*
- *Tax Calculation Based On* - Set to *Shipping Address*
- *Shipping Prices* - Set to *Catalog Prices* value
- *Apply Customer Tax* - Hidden when *Catalog Prices = Exclude Tax* and set to *After Discount*
- *Apply Discount on Prices* - Set to *Catalog Prices* value
- *Apply Tax On* - set to *Custom price if available*
- *Enable Cross Border Trade* - set to *Yes* when *Catalog Prices = Include Tax* and to *No* when *Catalog Prices = Exclude Tax*

System > Configuration > Sales > Tax > Price Display Settings section

- *Display Product Prices* - Set to *Catalog Prices* value

- *Display Shipping Prices* - Set to *Catalog Prices* value

System > Configuration > Sales > Tax > Orders, Invoices, Credit Memos Display Settings

- *Display Full Tax Summary* - Set to *No*

Sales > Tax

- *Manage Tax Rules*
- *Manage Tax Zones & Rates*
- *Import / Export Tax Rates*